



# Machine-building sector profile. Moldova

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**BY:** Dumitru Slonovschi and Irina Batiri

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**TABLE OF CONTENTS:**

<b>SUMMARY</b> .....	<b>6</b>
<b>1 INTRODUCTION</b> .....	<b>8</b>
1.1 Scope of the research .....	8
1.2 Applied methodology .....	8
1.3 Limits and barriers of the research .....	9
<b>2 DESK RESEARCH</b> .....	<b>10</b>
2.1 Macroeconomic overview of the sector .....	10
2.2 Investments in long-term assets .....	11
2.3 Number of companies and employees in sub-sectors .....	13
2.4 Geography of the companies in the analysed industries .....	15
2.5 Type of property in the machine-building sector .....	17
2.6 Rubber, plastic metal products .....	19
2.7 Machine-building industry .....	20
2.8 Companies rendering services adjacent to machine-building .....	22
2.9 Production volumes, Republic of Moldova .....	23
2.10 Exports and imports in the sector .....	24
2.11 Human resources .....	29
<b>3 SURVEY RESULTS</b> .....	<b>31</b>
3.1 Respondent profiling .....	31
3.2 Membership in associations .....	33
3.3 Governmental assistance and assistance from international organizations .....	34
3.4 Exports .....	36
3.5 Marketing .....	38
3.6 Staffing .....	40
3.7 Company development .....	43
<b>4 CONCLUSION</b> .....	<b>45</b>
<b>5 APPENDIX</b> .....	<b>47</b>

**Figures:**

Figure 1: Manufacturing industry value added share of GDP .....	10
Figure 2: Investments in long-term assets .....	11
Figure 3: Investments in long-term real assets for RPM products .....	11
Figure 4: Investments in long-term assets. Machine-building industry .....	12
Figure 5: Investments in long-term assets for services adjacent to the machine-building industry .....	12
Figure 6: Number of reporting companies .....	13
Figure 7: Number of personnel .....	13
Figure 8: Mean number of personnel per company .....	13
Figure 9: Number of companies having a certain number of employees, companies .....	14
Figure 10: Origin of the company depending on the number of staff .....	14
Figure 11: Structure of industries by company size .....	15
Figure 12: Geography of companies .....	15
Figure 13: Structure of the industry per regions .....	16
Figure 14: Number of machine-building companies per rayon .....	16
Figure 15: Area where the companies are situated .....	17
Figure 16: Type of property .....	17
Figure 17: Average number of employees per sub-industry and ownership of the company .....	18
Figure 18: Number of companies RPM products sub-industry .....	20
Figure 19: Number of companies in machine-building industry .....	21
Figure 20: Number of companies rendering adjacent services .....	22
Figure 21: Production value (2-digit NACE codes) .....	23
Figure 22: Dynamics of external trade flows .....	25
Figure 23: Dynamics of export and import, by type of product .....	25
Figure 24: Export structure, HS-2 .....	26
Figure 25: Imports structure, HS-2 .....	27
Figure 26: Number of employees in different sectors of Moldovan economy from 2013 to 2017 .....	29
Figure 27: Number of employees in machine-building industry from 2013 to 2017 .....	29
Figure 28: Type of enterprise .....	31
Figure 29: Ownership in the interviewed companies .....	32
Figure 30: Local/ foreign capital of the company, N=50 .....	32
Figure 31: Company establishment .....	33
Figure 32: Company sales, N=50 .....	33
Figure 33: Types of aid needed by companies (besides grants and financial aid), N=50 .....	34
Figure 34: Preferred source of assistance .....	34
Figure 35: Countries where there are plants that the respondents would like to visit .....	35

Figure 36: Export in 2017, % .....	36
Figure 37: Exported in the past 3 years (2015-2017), % .....	36
Figure 38: Export destinations .....	37
Figure 39: Trademarks for products / services sold on the local market and on the external market .....	38
Figure 40: Methods for client-needs assessment .....	38
Figure 40: Promotion channels for products/ services on the local market .....	39
Figure 41: Promotion channels for products/ services on the foreign market, N=35 (exporting comp.).....	39
Figure 42: Setting objectives for the following 1-3 years .....	40
Figure 43: Number of employees .....	40
Figure 44: Level of difficulty employing new staff for the analysed positions, N=50 .....	41
Figure 45: Share of operational process employees per type of educational background.....	42
Figure 46: Correspondence of staff's diplomas to the companies' specialization needs, N=50.....	42
Figure 47: Universities, whose graduates work in the interviewed companies, N=50 .....	43
Figure 48: Top 3 barriers for company development, N=50.....	43
<b>Tables:</b>	
Table 1: Sub-sectors analysed .....	8
Table 2: The top five companies engaged in the machine-building sector .....	19
Table 3: The top five companies engaging in the machine-building sector by number of employees .....	20
Table 4: The top five companies engaging in the machine-building sector by number of employees .....	22
Table 5: Amount of production.....	24
Table 6: Top 10 3-digit NACE codes in terms of production value, million \$.....	24
Table 7: Exports of domestic goods. Top 10 positions, 2016 .....	26
Table 8: Exports of domestic goods. Top 10 positions, 2017 .....	27
Table 9: Imports of domestic goods. Top 10 positions, 2016 .....	28
Table 10: Imports of domestic goods. Top 10 positions, 2017 .....	28
Table 11: Training subjects solicited by the respondents.....	35
Table 11: Number of vacancies per employee level .....	41
Table 13: Certification that the companies still need to obtain .....	44
<b>Appendix:</b>	
Appendix 1: Number of companies per analysed NACE rev. 2 codes .....	47
Appendix 2: Value of production, Republic of Moldova, thousand MDL .....	50
Appendix 3: Export amount on the level of four-digit code, 2016-2017 .....	51
Appendix 4: Import of foreign commodities, trade value, 2016-2017 .....	65

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**LIST OF ACRONYMS**

ADR Nord	North Region Development Agency
APIP	Association of Employers from the Manufacturing Industry (Asociația Patronala din Industria Prelucrătoare)
ATEX	Certification that describes equipment and work space allowed in an environment with an explosive atmosphere
CIS	Commonwealth of Independent States
EBRD	European Bank for Reconstruction and Development
FEZ	Free economic zone
GAV	Gross added value
GDP	Gross domestic product
GOST	(Russian: ГОСТ) stands for a set of technical standards from the Euro-Asian Council for Standardization, Metrology and Certification (EASC)
ISO	International Organization for Standardization
NACE	Statistical classification of economic activities in the European Community (Nomenclature statistique des activités économiques dans la Communauté européenne)
NBS	National Bureau of Statistics
RPM	Rubber, plastic, metal products
MIEPO	Moldova Investment and Export Promotion Organization
OHSAS	Occupational Health and Safety Assessment Series
SARD	Support for Agriculture and Rural Development in ATU (Autonomous Territorial Unit) Gagauzia
UN	United Nations
UNIDO	United Nations Industrial Development Organization
USSR	Union of Soviet Socialist Republics
VAT	Value added tax

## SUMMARY

This report presents an overview of the Moldovan machine-building sector and is based on secondary data, collected via desk research, and primary data, collected via a survey.

The **desk research** was conducted based on information used from the National Bureau of Statistics and the UN Comtrade website and includes data on three sectors – 1) rubber-plastic-metal (RPM) products, as potential components for the machine-building industry, 2) the machine-building industry and 3) the sector of companies rendering adjacent services.

A **survey** was conducted with the goal to collect information from the top representatives of the machine-building sector. The survey does not include foreign companies and only covers large-sized local companies. The firms were selected by experts. Although the sample is not representative of the sector, the results provide, nonetheless, an insight into the machine-building sector.

### Desk research results

**Macroeconomy indicators.** According to the data from the National Bureau of Statistics, between 2012 and 2017, the machine-building industry represented between 11% and 12% of GDP. However, older data from the same source indicates a much lower value for the same indicator at around 1.5 - 2.4% between 2010 and 2014.

During the Soviet period, the output of the machine-building industry was almost entirely intended for the Soviet market. After Moldova gained independence, many of the commercial relations with former partners were lost. However, from 2005, the export and import of machine-building industry products started to increase. Electrical machinery, equipment and parts thereof are the main export category, being the product of the numerous foreign capital companies producing cables in Moldova.

Recently, machine-building has become important for foreign direct investments. Foreign investors engage into capital construction, open up large plants mainly in the free economic zones and contribute to the sector's development, including financial investment, job creation, and investment into human resources.

**Analysis of the population of companies registered under relevant NACE codes.** This report was combines desk research and results from an ITC survey. Companies engaged in the machine-building sector are now registered in the National Bureau of Statistics under relevant NACE codes and includes 1) **inexistent / non-active** companies, and 2) companies that are mainly engaged in other spheres rather than their NACE code.

Overall, there are 1,816 machine-building companies registered under NACE codes, of which 843 specialize in RPM, 799 in adjacent services and 174 – in machine-building. It is important to note that of the registered enterprises, 664 companies have 1 employee, 226 have 2 employees and 383 have between 3 to 5 employees. In this regard, the majority of the enterprises engaged in the sector are of **micro** size, and one can doubt that the companies with 1 employee are active.

The largest companies engage in machine-building sector (not in RPM or adjacent services). Twenty-two companies out of 1,816 are considered large and have more than 150 employees. Furthermore, even though 88% of the registered companies are domestically-owned companies of private property, **large-sized cable production companies are the biggest employers and are also foreign-owned** (Draexlmaier – over 3000 employees, Fujikura – over a thousand employees, Sammy Cablaggi – over seven hundred, SEBN – half a thousand employees) and in fact these companies drive the industry trends.

The majority of the analysed companies, totalling 1,202 firms, are **based in the Chisinau municipality**, and the remaining 256 are based in the central region, 212 are located in the northern region, and 146 in the southern region. In the case of each of the three analysed sectors, companies are **predominantly situated in urban areas**.

The processing industry contributed to a 23% share (\$2,997 million) in the overall production volume in 2016, which totalled \$13,221 million. **The production volume of the machine-building industry** totalled \$492 million in 2016, resulting in an overall 3.7% share in the production volume.

**Survey results.** The machine-building in Moldova includes several types of companies based on when they had been established – those that were established during the Soviet period and those that opened after 1990. For the enterprises that were established during the Soviet period either were able to cope with the changes that came after Moldova gained independence, compared to those that were not able to cope. For instance, several successful enterprises operating during the Soviet period have practically ceased their professional activity and now only rent their huge manufacturing spaces. Those that were able to cope looked for new opportunities for development. Still, quite often these companies have to deal with a lack of new equipment and dependence on a limited number of clients and lack of infrastructure. Moreover, a lot of the supplies need to be purchased abroad and a lack of opportunity within the domestic market means that the final products also need to be exported.

An important direction for the machine-building industry includes agricultural transportation, for which there is a relatively developed local market. However, overall, the machine-building industry is mainly working on the B2B market and is mainly oriented towards export.

Thirty-six of the interviewed companies occupied in RPM industry appeared after 1990s. However, it needs to be specified that RPM in fact mainly stands for “plastic” and “metal”, there are few “rubber” companies. The RPM companies in their turn are oriented towards both – B2C and B2B markets.

**Strategic management** is important for company development. The surveyed enterprises were assessed on planning, marketing and staff management. 66% of companies specified that they have written plans for production activities and monitor their performance against these plans. In terms of exports, marketing, staff, and sales, companies are less inclined to have a written plan.

Working with existent clients, preserving the status-quo is a trait of many of the interviewed companies. Survey data show that only five of the fifty interviewed companies are **members of associations**, only two companies mentioned that they received Governmental aid and nine companies received assistance from international organizations. In spite of a low level of support from business support organizations and financial aid, 68% of the enterprises would appreciate visits to plants abroad and 48% would be interested in being visited by international experts.

The top **three barriers for company development** include low domestic demand, scarce financial resources for investment and lack of human resources. Companies often need many non-management employees for operational processes, and they are ready to employ them and teach them on-spot.

The main **promotion channel** for both local and foreign market is participation in exhibitions and fairs. Many companies noted that their clients find them on their own, most likely through word-of-mouth, since many of the firms do not have a web-site and might not even be found on the internet besides information on their address and administrator name.

B2B sales do not require companies to have a **trademark**. Thus, 57% of the interviewees that export, noted that they do not have a trademark for the external market and 64% of the 50 companies do not have a trademark for the local market.

In terms of **exports**, 64% of the enterprises export their products - the highest share of exporting companies is engaged in machine-building (79%) and the lowest share are engaged in RPM companies that can address the B2C market and have a local potential. Due to low volume of raw materials domestically, most companies import their supplies, particularly from Russia, Ukraine and Romania. Raw materials sourced from Europe are mostly from Germany and Italy.

## 1 INTRODUCTION

This research has been carried out by Dumitru Slonovschi and Irina Batiri in the framework of the project “Eastern partnership: Ready to Trade – an EU 4 Business initiative”.

### 1.1 Scope of the research

The objective of this study is to provide a further understanding of the machine-building sector in Moldova, by identifying the main challenges faced by the companies in the sector and opportunities for growth.

### 1.2 Applied methodology

In order to have a deeper understanding of machine-building in Moldova, the sector can be divided into three sub-sectors: RPM products (this sub-sector includes rubber, plastic and metal products), machine-building and adjacent services. The report analyses the sector using secondary and primary data.

#### Secondary data

An assessment of the machine-building sector, using data from the National Bureau of Statistics data and the UN Comtrade database, provides an insight into the sector and its potential for growth. The National Bureau of Statistics data was used to analyse the share of machine-building in terms of GDP, volume of production and size of investments in the sector.

The machine-building sector is defined, according to the following codes of the Classifier of Activities in Moldova's economy (CAEM rev.2 - Clasificatorul Activităților Economice a Moldovei - in Romanian [http://www.statistica.md/public/files/Clasificatoare/Grupe\\_ind\\_Rev.2.pdf](http://www.statistica.md/public/files/Clasificatoare/Grupe_ind_Rev.2.pdf)), which have been harmonized to the European standard NACE Rev. 2. The green coloured codes are entirely included in the research, while the red coloured codes are included only partially (as presented in the footnote).

Table 1: Sub-sectors analysed<sup>1</sup>

Rubber, plastic and metal products (RPM products)	C22	Manufacture of rubber and plastic products
	C23	Manufacture of other non-metallic mineral products (C2390 Manufacture of abrasive products and non-metallic mineral products n. e. c.)
	C24	Manufacture of basic metals (all except for C2440 Basic precious and other non-ferrous metals)
	C25	Manufacture of fabricated metal products, except machinery and equipment
Machine-building industry	C26	Manufacture of computer, electronic and optical products
	C27	Manufacture of electrical equipment
	C28	Manufacture of machinery and equipment n. e. c.
	C29	Manufacture of motor vehicles, trailers and semi-trailers
	C30	Manufacture of other transport equipment
	C32	Other manufacturing (C3299 Other manufacturing n. e. c.)
Services adjacent to machine-building industry	C33	Repair and installation of machinery and equipment
	M71	Architectural and engineering activities; technical testing and analysis (M7112 Engineering activities and related technical consultancy, M7120 Technical testing and analysis)
	M72	Scientific research and development (M7211 Research and experimental development on biotechnology, M7219 Other research and experimental development on natural sciences and engineering)

In order to analyse external trade flows, data from UN Comtrade database was used. In particular, the following codes were taken into consideration: 80 – tin and articles thereof, 81 – other base metals, cements, articles thereof, 82 – tools, implements, cutlery etc. of base metal, 83 – miscellaneous articles of

<sup>1</sup> Full list of 4-digit codes: C2210, C2220, C2390, C2410, C2420, C2430, C2450, C2550, C2560, C2570, C2590, C2610, C2680, C2710, C2720, C2730, C2740, C2790, C2510, C2520, C2530, C2540, C2620, C2630, C2650, C2660, C2810, C2820, C2830, C2840, C2890, C2910, C2920, C2930, C3010, C3020, C3030, C3040, C3250, C3310, C3320, C2640, C2670, C2750, C3090, M7112, M7120, M7211, M7219.



base metal, 84 – nuclear reactors, boilers, machinery etc., 85 – electrical, electronic equipment, 86 – railway, tramway locomotives, rolling stock, equipment, 87 – vehicles other than railway, tramway, 88 – aircraft, spacecraft, and parts thereof, 89 – ships, boats and other floating structures, and 90 – optical, photo, technical, medical, etc. apparatus.

### **Survey Results**

A survey was carried out to identify key firms engaging in the machine-building sector in Moldova.

**Sample size:** 50 respondents (general director/ executive director/ head technologist).

**Data collection method:** face-to-face interviews.

**Geography:** no limits were set for the survey – the companies were selected regardless of their location in Moldova.

### **Selection criteria:**

The sample was selected by a research team based on several criteria:

1. Company size. The companies with the largest number of employees were selected, since smaller companies, and particularly those with only 1 employee most often are not active. The largest companies also have a larger export potential. For this reason, the database of the companies has been sorted by the number of employees per company and for each category the top companies were included in the sampling frame. There was no such criterion as exact minimum number of employees, since it varies a lot depending on the sub-sector. Therefore, only micro companies were excluded.
2. Company capital origin. Predominantly local companies were selected (51%+ of local capital).
3. Company products and services. Companies that manufacture products for machine-building industry (companies producing products/ rendering services related to transportation or equipment) were included in the research.

### **1.3 Limits and barriers of the research**

1. Information obtained from the National Bureau of Statistics was presented on the level of 2-digit codes, thus it also includes irrelevant information on some 4-digit codes that do not enter the scope of this research. Data for long-term real estate assets have been obtained from the National Bureau of Statistics on the level of 2-digit codes, the fact that means that all 4-digit codes inside the 2-digit codes were included in the data.

In case of data on production volumes, 3-digit code aggregates were obtained from the National Bureau of Statistics, that means that again, all 4-digit codes that are included in these 3-digit codes entered the analysis.

2. Desk research related to the information on companies was conducted based on data from National Bureau of Statistics, representing companies selected by their NACE code. Many of these companies only have 1 employee that makes the authors believe that these are inexistent/ non-active companies.
3. Up-to-date information on the share of machine-building sector from GDP was not possible to obtain from the National Bureau of Statistics (NBS) since NBS declared that the human resources of the Bureau are limited and the Bureau cannot offer this information, thus older information (2010-2014) from the NBS web-site has been used.
4. The survey presented in this report is not representative of the industry, since the sample was not probability, but conventional. The data need to be analysed with caution.

## 2 DESK RESEARCH

The Moldovan machine-building industry is founded on a strong Soviet industrial past. Since then, it has undergone significant changes. Until 1990, the USSR invested into capital construction and the development of large plants in Moldova producing various equipment both for civil and military purposes.

After Moldova gained independence, several Soviet-time leaders of machine-building industry have practically ceased their activity in the sphere of machine-building and have reoriented to other domains, primarily renting the facilities that were used for production purposes in the past. Present industry leaders orient their production to other domains, such as cables and wires.

Even though the overall share of citizens employed in the machine-building industry is relatively low, compared to other sectors, companies engaged in machine-building, particularly the ones with foreign capital, are considered the top employers with the highest number of personnel.

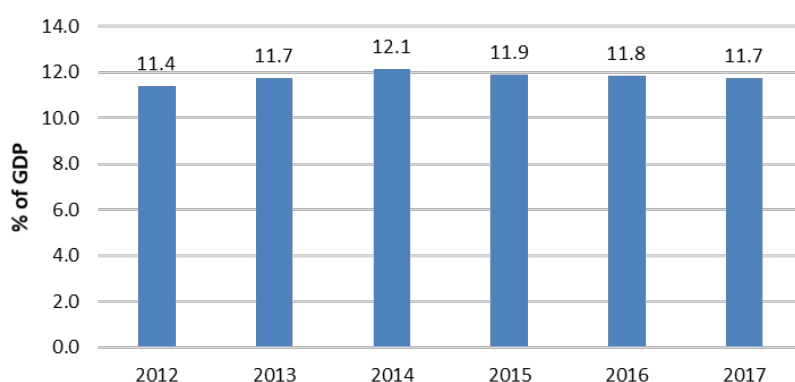
International experts emphasize the fact that since the Soviet period, most of the enterprises engaged in the machine-building have been privatised. Overall the level of governmental interference in the industry is assessed as low.

One of the most prominent governmental measures aimed at investment attraction and industry development is the creation of free economic zones (FEZ). There are seven FEZs in Moldova and a significant share of FEZ activity is related to machine-building. The most prominent foreign capital companies in machine-building are situated in the following FEZs: Draexlmaier, Coroplast, Gebauer & Griller, SEBN. Being engaged in a FEZ has fiscal advantages (zero VAT, no export duties for sales to Commonwealth of Independent States (CIS), export duty reduction for some product categories exported to the European Union). Thus, according to a recent report<sup>2</sup> from the Ministry of Economy and Infrastructure on activity of FEZ in Moldova, in 2017, 88% of the FEZ production was exported.

### 2.1 Macroeconomic overview of the sector

Between 2012 and 2017, the share of the **manufacturing** industry in terms of Gross Added Value (GAV) oscillated between 13.6% and 14.4%, while its share in Gross Domestic Product (GDP) fluctuated between 11% and 12%, remaining relatively stable over the same period (see Figure 1).

Figure 1: Manufacturing industry value added share of GDP



Source: chart designed by authors based on data from statistica.md.

The manufacturing industry also encompasses machine-building industry. Data on the **machine-building industry** in terms of GDP and GAV is available only up until 2014. Based on this data, the share in GDP of the following sectors - manufacturing of machines and equipment; manufacturing of office and computing machines; production of electrical machines and apparatus; production of radio and TV equipment and

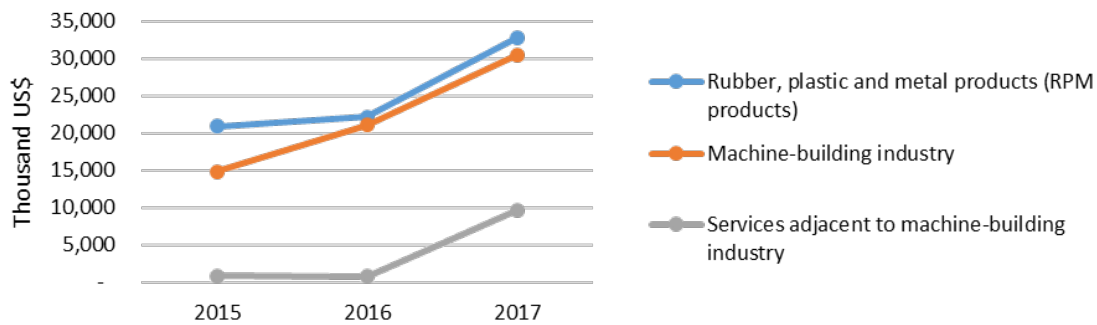
<sup>2</sup> <https://mei.gov.md/ro/content/zonele-economice-libere>

apparatus; production of medical, precise and optical apparatus and instruments; production of road transportation and other transportation – increased from 1.5% in 2010 to 2.4% in 2014.

### 2.2 Investments in long-term assets<sup>3</sup>

From 2015 to 2017, investments in the long-term assets have increased in all the three machine-building sub-sectors (see Figure 2). There has been a greater investment in RPM products, followed by the machine-building industry. The trends are rather foreseeable, since the number of companies in RPM business is larger than in the two other machine-building sub-industries. At the same time, RPM and machine-building are production companies that use specialized equipment, investments in facilities to house the production processes. On the other side, services-rendering activities usually require fewer capital investments both in equipment and in real estate.

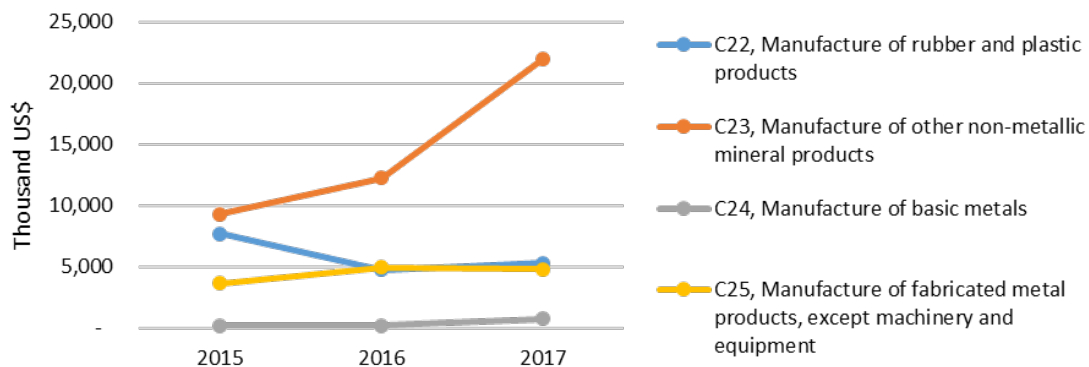
Figure 2: Investments in long-term assets



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

In the sub-industry of RPM products, the largest investments in long-term assets are made by companies manufacturing “other non-metallic mineral products” (see Figure 3). However, it is important to note that C23 is a 2-digit code that comprises several industries that do not belong to the scope of this research, such as C23.1 manufacture of glass and glass products, C23.2 manufacture of refractory products, C23.3 manufacture of clay building materials, C23.4 manufacture of other porcelain and ceramic products, C23.5 manufacture of cement, lime and plaster, C23.6 manufacture of articles of concrete, cement and plaster, and C23.7 cutting, shaping and finishing of stone. All of these industries use specialized equipment and therefore this data needs to be analysed with attention. There has been a decrease of investments for rubber and plastic products from 2015 to 2016.

Figure 3: Investments in long-term real assets for RPM products

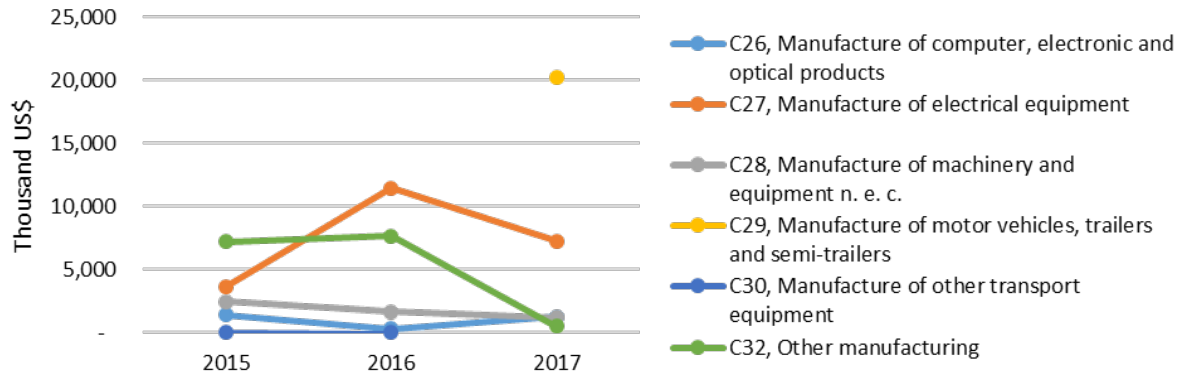


Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

<sup>3</sup> This chapter presents information on tangible assets: real estate, capitalized property, plant and equipment.

In the sub-industry of machine-building there is an interesting observation. While long-term tangible investments in C27 “manufacture of electrical equipment” and C32 “other manufacturing” have decreased, due to the fact that figure for C29 – “Manufacture of motor vehicles, trailers and semi-trailers” was higher than the rest, the overall trend per machine-building is positive (see Figure 4). In its turn, C29 is mainly driven by foreign-capital companies producing cables.

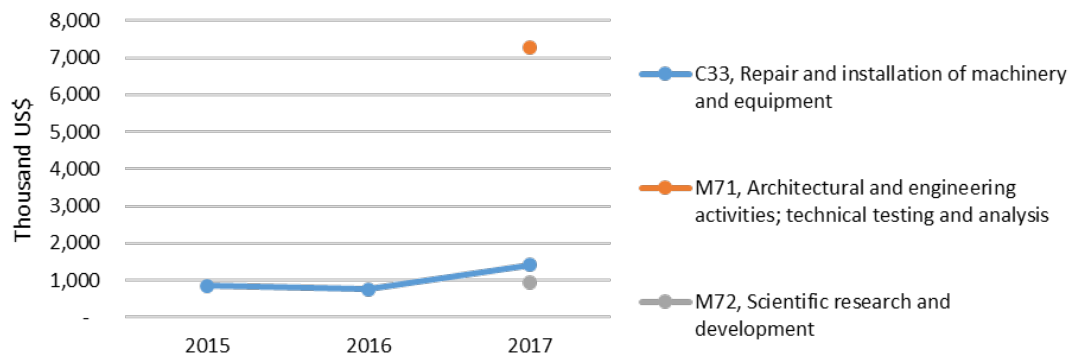
Figure 4: Investments in long-term assets. Machine-building industry



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

Long term investments in the sub-industry of services adjacent to machine-building increased from 2015 till 2017 (see Figure 5). The increase is mainly explained by the fact that in 2017 there appeared long-term investments in M71 architectural and engineering activities, technical testing and analysis and M72 Scientific research and development.

Figure 5: Investments in long-term assets for services adjacent to the machine-building industry



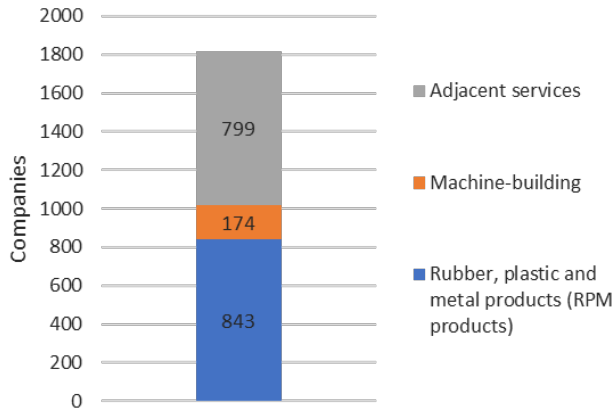
Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

### 2.3 Number of companies and employees in sub-sectors

Overall, in all three sub-sectors of the industry there are 1,816 companies that regularly report to the National Bureau of Statistics (NBS).

The largest share of the analysed industry is represented by companies producing RPM products (843 of 1,816 companies, report regularly to NBS) and those engaging in adjacent services (799 companies) (see Figure 6).

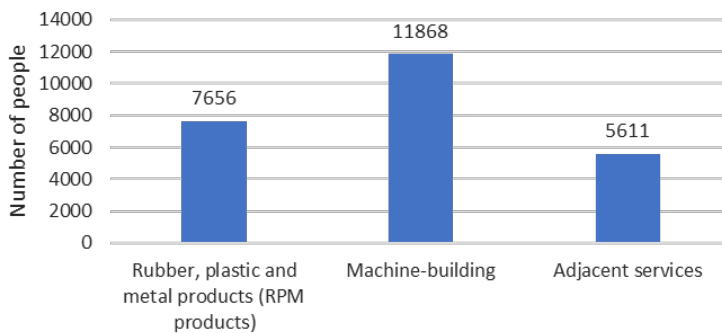
Figure 6: Number of reporting companies



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

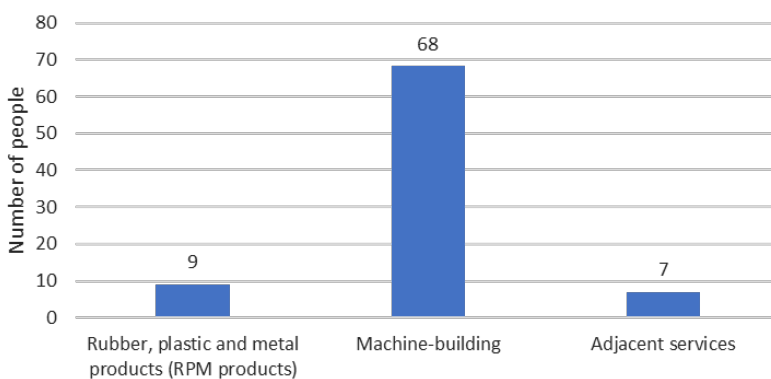
Most employees are engaged in the machine-building industry – 11,868 employees (or 47% of the industry employees), compared to RPM and adjacent services (see Figure 7).

Figure 7: Number of personnel



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

Figure 8: Mean number of personnel per company

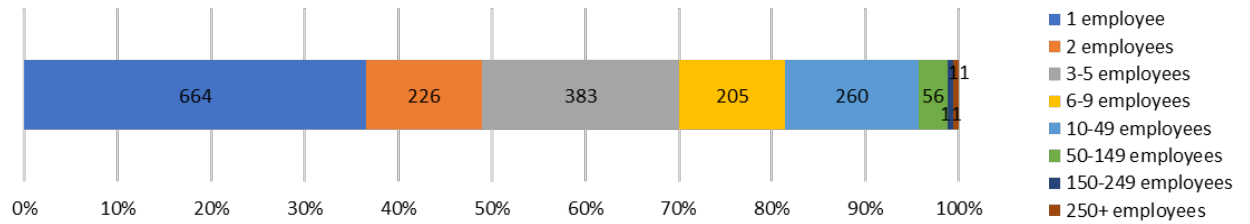


Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

Moreover, it is important to note that in each of the analysed sub-industries, a significant share of companies (37% or 664 companies) only has 1 employee (Figure 9). In some cases, this might be an indicator of the intention of these companies to stop their activity. A similar conclusion can be made about 2-employee companies.

According to Law Nr. 179 from 21.07.2016, firm size is defined according to the number of employees. Micro-enterprises are those that have at most 9 employees and revenue does not exceed 9 million MDL; small enterprises are those that have 10-49 employees and their revenue does not exceed 25 million MDL; medium enterprises are those that have from 50 to 249 employees and their revenue does not exceed 50 million MDL.

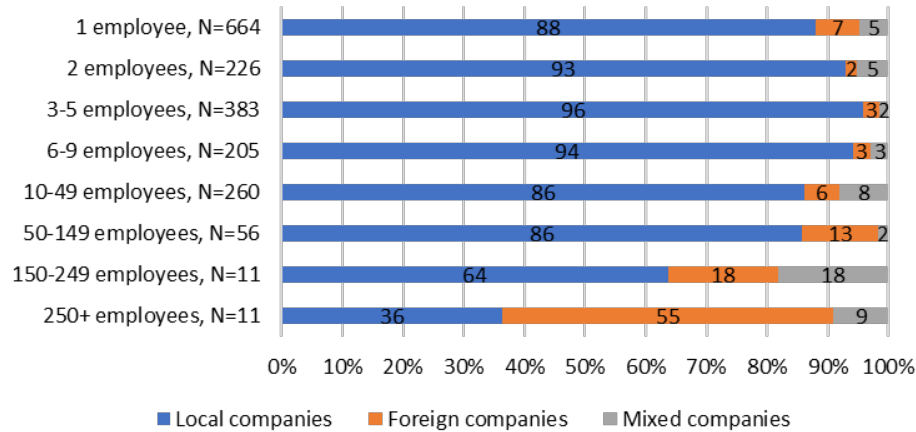
Figure 9: Number of companies having a certain number of employees, companies



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

It can be observed (Figure 10) that while ownership of micro and small companies most often belongs to Moldovan citizens, among the medium companies, the share of those with foreign ownership is increasing. In the case of large-sized companies, even though their number is not so large (11), most are foreign-owned (55%).

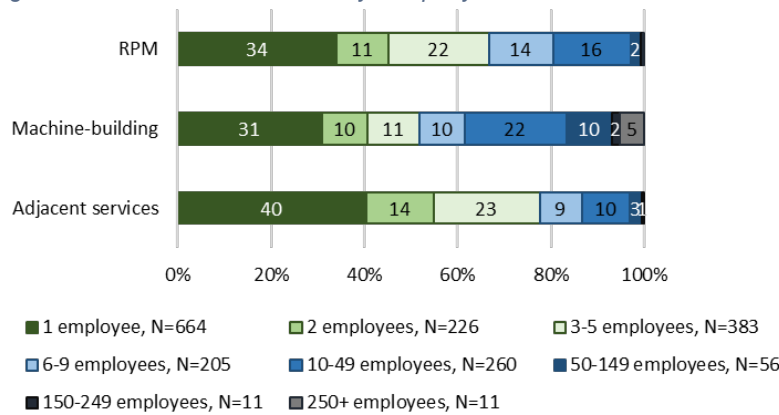
Figure 10: Origin of the company depending on the number of staff



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

Companies with only 1 employee mostly engage in adjacent services (40%). The smallest share of micro companies is in the machine-building sector (62% as compared to 81% in case of the companies producing RPM products and 86% in case of companies rendering adjacent services) (see Figure 11).

Figure 11: Structure of industries by company size



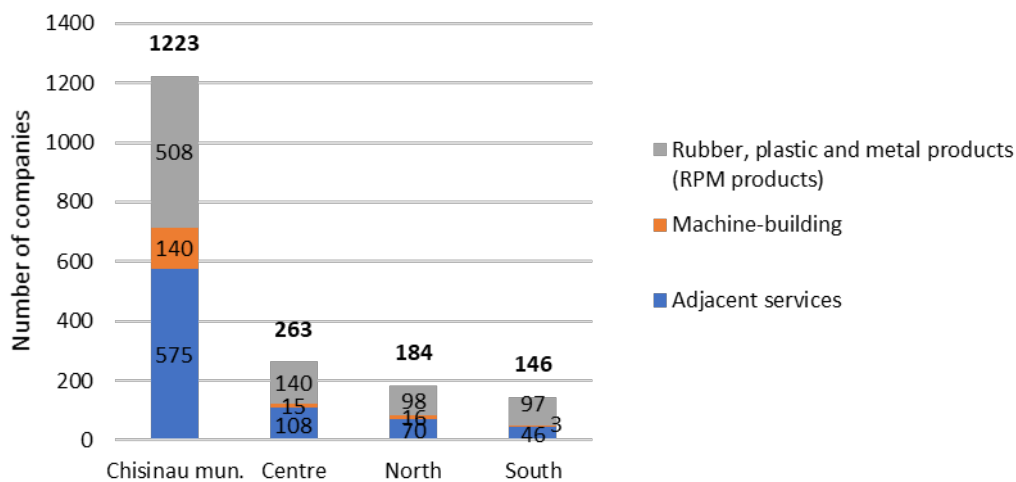
Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

### 2.4 Geography of the companies in the analysed industries

The machine building industry is concentrated in the capital, Chisinau, where the majority of the companies (66%) are registered (see

Figure 12 and Figure 13). The second largest share is registered in the Centre (14%), followed by the north (12%).

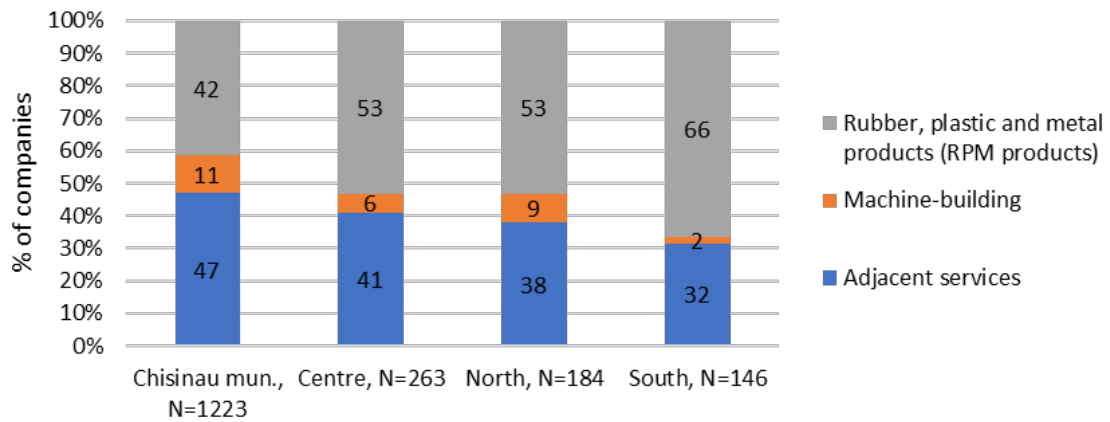
Figure 12: Geography of companies



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

In the south of Moldova, most companies engage in RPM-related activities. The only large machine-building company in this region is foreign-owned called Coroplast from Causeni. The other two companies are micro, one of which has one employee and the other has five employees.

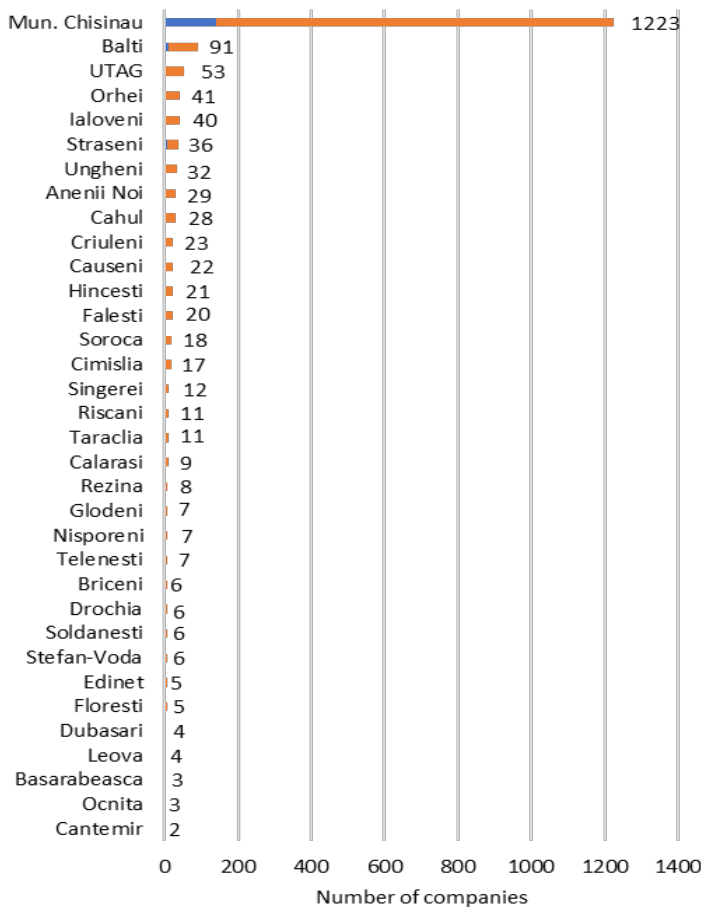
Figure 13: Structure of the industry per regions



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

The Figure 14, below, presents information per rayon. The two municipalities Chisinau, Balti and the Autonomous Territorial Unit of Gagauzia are the top three regions, followed by Orhei and two Chisinau suburbs (Ialoveni and Straseni) with machine-building enterprises.

Figure 14: Number of machine-building companies per rayon



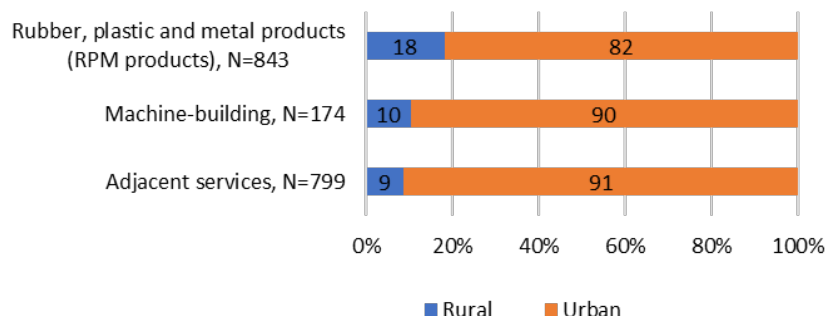
Note: blue colour represents machine-building companies, while orange represents the rest of the companies from the analysed industry

Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.



Most companies are situated in urban areas. The largest share of registered companies in rural areas engage in the RPM sub-sector.

Figure 15: Area where the companies are situated

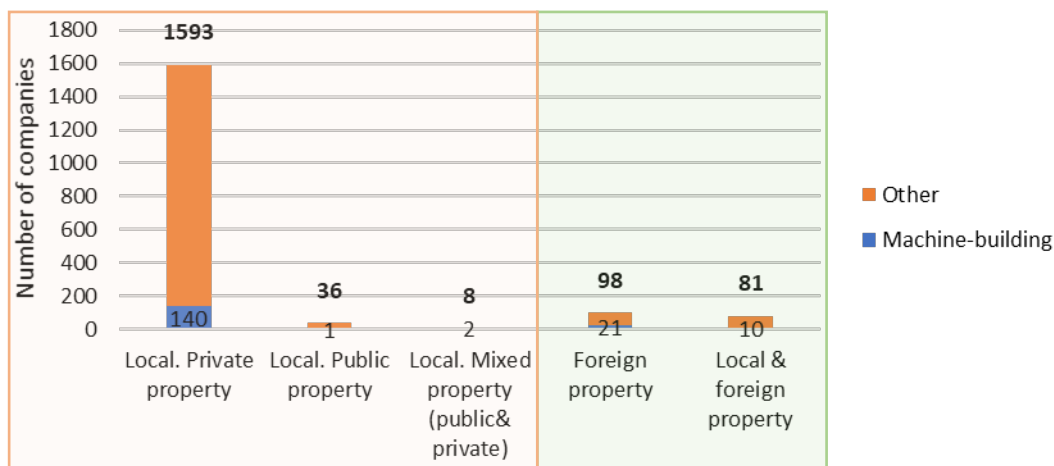


Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

## 2.5 Type of property in the machine-building sector

The majority of companies hold Moldovan capital and most of them are in private property (see Figure 16). There are 98 purely foreign-owned companies and 81 companies with mixed capital.

Figure 16: Type of property



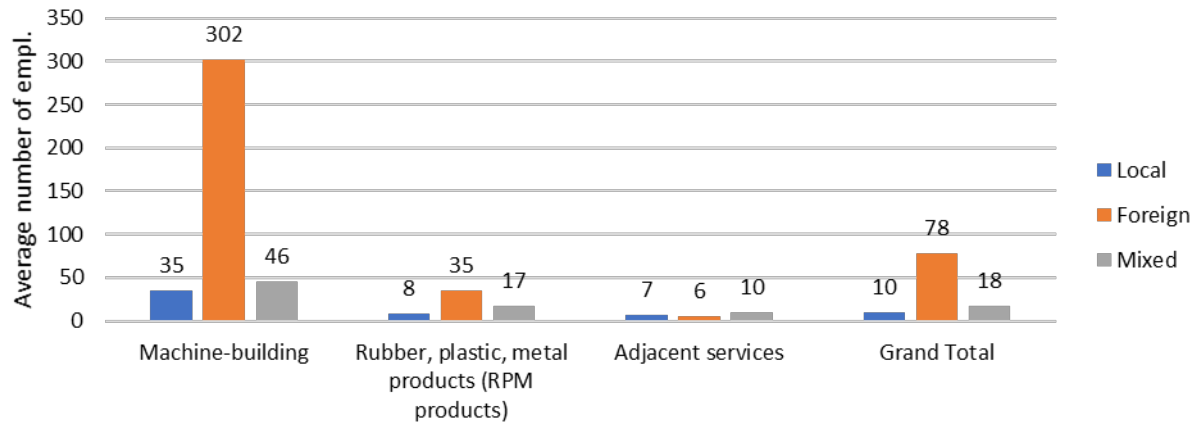
Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

The largest foreign companies in the sub-industry of machine-building companies are the ones producing cables (Draexlmaier – 3062 employees, Fujikura - 1308, Sammy Cablaggi - 743, SEBN - 445, Cables & Wires - 224, La Triveneta Cavi Development - 168, Coroplast Harness Technology - 120, ACE Cabling - 94). However, there are also several micro-sized foreign companies that do statistical reporting. For instance, there are 8 foreign companies with 1 employee, 1 company with 2 employees and 1 company with 3 employees.

It is important to keep in mind that while median<sup>4</sup> number of employees working in machine-building companies with foreign capital in Moldova is 14, average number is 302 (see Figure 17).

<sup>4</sup> The median is the value separating the higher half from the lower half of a data sample (a population or a probability distribution). For a data set, it may be thought of as the "middle" value. For example, in the data set {1, 3, 3, 6, 7, 8, 9}, the median is 6, the fourth largest, and also the fourth smallest, number in the sample.

Figure 17: Average number of employees per sub-industry and ownership of the company



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

## 2.6 Rubber, plastic metal products

Among companies producing RPM products, the largest company is foreign owned called OILTECH, and specializes in C2222 (manufacture of plastic packing goods). The company is based in Chisinau and has 383 employees.

The second largest company, STEINEL Electronic, is also foreign-owned and is based in Chisinau. The company manufactures other plastic products (C2229) and has 290 employees.

The third largest company is locally-owned called COMECOTEH with 176 employees. The company is also based in the capital and specializes in manufacturing plastic packing goods (C2222).

The fourth largest company, POLYMER Comert Grup, is also locally-owned based in the capital and employs 175 people. The company specializes in manufacturing plastic plates, sheets, tubes and profiles (C2221).

The fifth largest company, ASPA, is locally-owned based in Orhei and specializes in machining (C2562) with 174 employees.

Table 2: The top five companies engaged in the machine-building sector

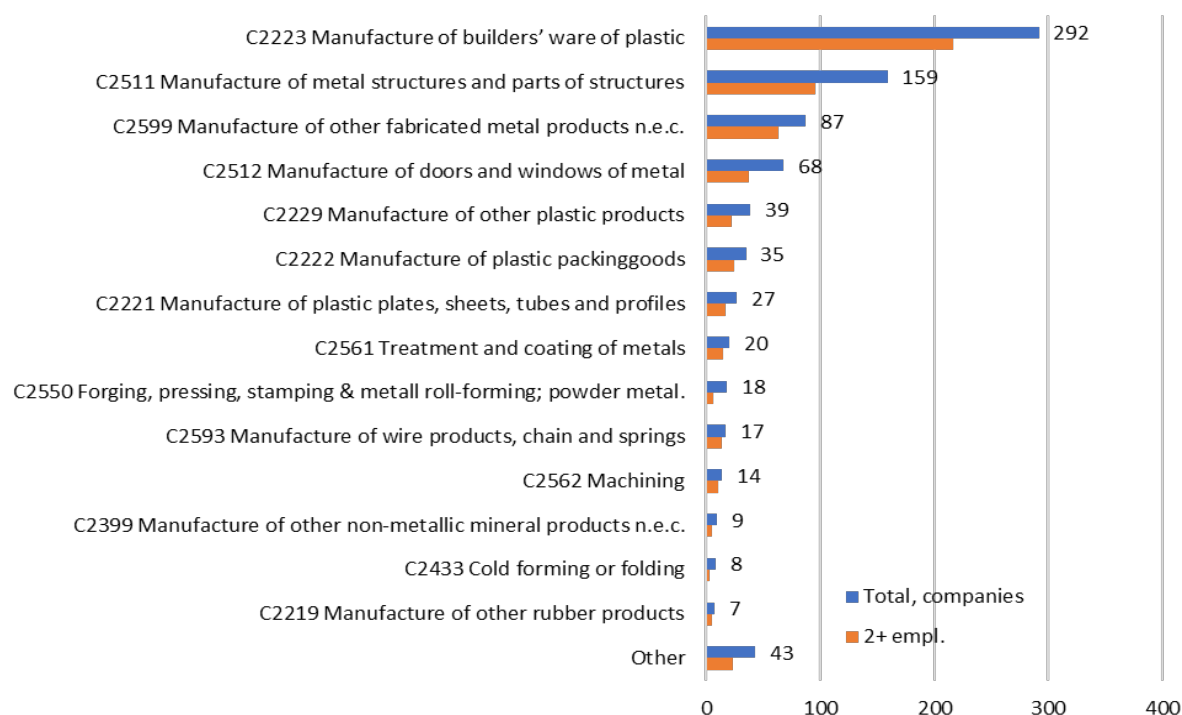
	Company	Locality	No of staff	Industry
1	OILTECH	Chisinau	383	Manufacture of plastic packing goods
2	STEINEL Electronic	Chisinau	290	Manufacture of other plastic products
3	COMECOTEH	Chisinau	176	Manufacture of plastic packing goods
4	POLYMER Comert Grup	Chisinau	175	Manufacture of plastic plates, sheets, tubes and profiles
5	ASPA	Orhei	174	Machining

Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

In the sub-industry of RPM products, the largest number of companies are registered under the category manufacture of builders' ware of plastic – totalling 292 companies (out of 843 companies specialized in RPM) (see Figure 18). The largest company CONSVITRALIU, a local company situated in Chisinau, has 93 employees and produces double-glazed windows and doors (representing brands such as Veka, Aluplast, Salamander).

In the sub-industry “manufacture of metal structures and parts of structures” there are 159 companies and the largest company is INCOMAS, situated in Chisinau with 92 employees. There are 87 companies in the sub-industry “manufacture of other fabricated metal products n. e. c.” and the largest is ESPLAN-Lux, a local company from Chisinau, employing 145 people.

Figure 18: Number of companies RPM products sub-industry



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

## 2.7 Machine-building industry

The largest company engaging in the machine-building industry is called Draexlmaier from Balti and has 3,062 employees. Other large companies include Introscoop from Chisinau (1,833 employees), Fujikura from Chisinau (1,308 employees), Sammy Cablaggi from Falesti (743 employees). All the top four enterprises belong to the sub-industry focused on manufacturing electrical and electronic equipment for motor vehicles - C2931. The fifth largest company in the industry is called Moldovahidromas from Chisinau with 548 employees, belonging to the sub-industry C2813 (manufacture of other pumps and compressors).

Table 3: The top five companies engaging in the machine-building sector by number of employees

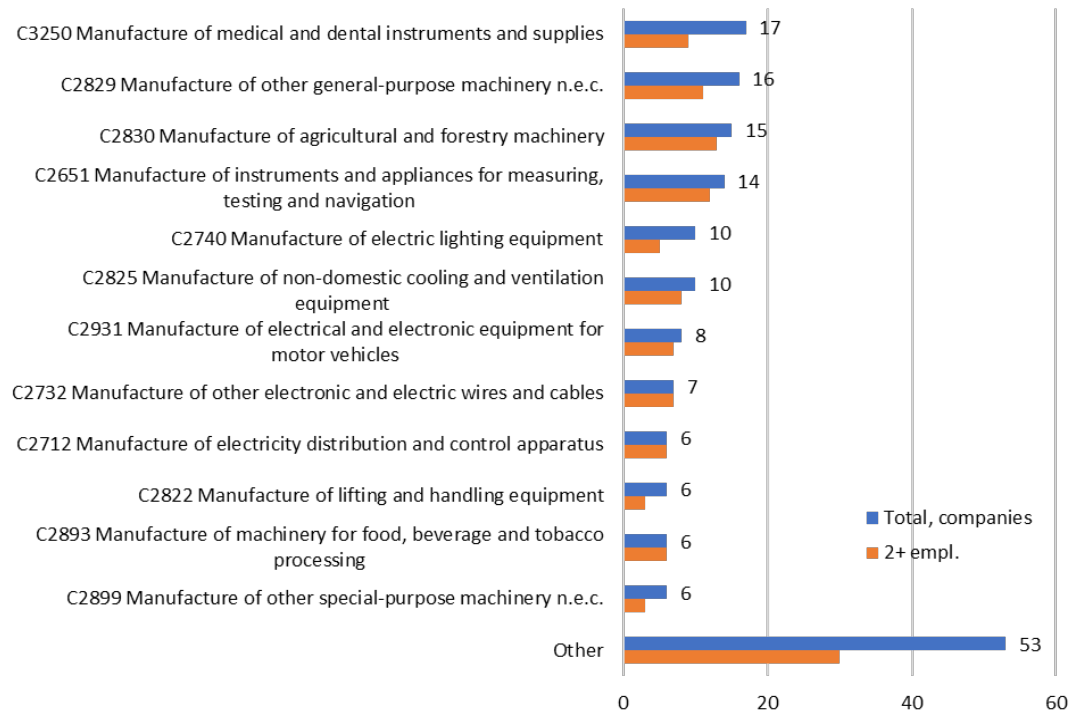
	Company	Locality	No of staff	Industry
1	Draexlmaier	Balti	3,062	Manufacture of electrical and electronic equipment for motor vehicles
2	Introscoop	Chisinau	1,833	Manufacture of electrical and electronic equipment for motor vehicles
3	Fujikura	Chisinau	1,308	Manufacture of electrical and electronic equipment for motor vehicles
4	Sammy Cablaggi	Falesti	743	Manufacture of electrical and electronic equipment for motor vehicles
5	Moldovahidromas	Chisinau	548	Manufacture of other pumps and compressors

Source: National Bureau of Statistics, offered upon data request.

Around 17 large-sized companies belong to the sub-industry of C3250 (manufacture of companies in machine-building industry), the largest being Republican Experimental Centre of Prosthetics, Orthotics and Rehabilitation, from Chisinau, with 268 employees, followed by Orthoservice with 54 employees (Figure 19).

There are 16 companies that manufacture other general-purpose machinery. The largest company in this sub-industry is Lumea filtrelor from Chisinau with 60 employees, followed by Berhord with 51 employees.

Figure 19: Number of companies in machine-building industry



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

## 2.8 Companies rendering services adjacent to machine-building

Among the companies engaged in rendering services adjacent to machine-building, the largest companies include TOPAZ from Chisinau with 231 employees (C3320), followed Liftservice with 216 employees (C3312), Applied Metrology & Licensing Centre with 158 employees (C7120), State Institute of Agricultural Equipment MECAGRO (M7211) with 156 employees, Proservice Com Ltd (M7120) with 139 employees, and State Energetical Inspectorate (M7120) with 130 employees.

Table 4: The top five companies engaging in the machine-building sector by number of employees

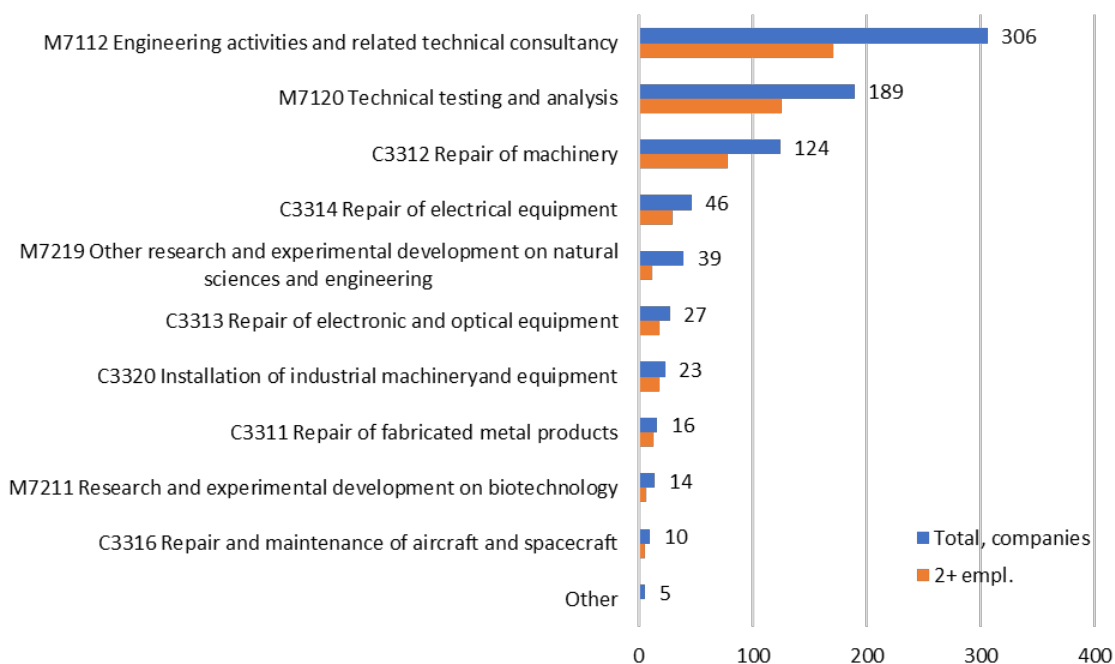
	Company	Locality	No of staff	Industry
1	TOPAZ	Chisinau	231	Installation of industrial machinery and equipment
2	Liftservice	Chisinau	216	Repair of machinery
3	Applied Metrology & Licensing Centre	Chisinau	158	Technical testing and analysis
4	State Institute of Agricultural Equipment MECAGRO	Chisinau	156	Research and experimental development on biotechnology
5	Proservice Com Ltd	Chisinau	139	Technical testing and analysis

Source: table designed by authors based on data from National Bureau of Statistics, offered upon data request.

The sub-sector of services adjacent to machine-building holds the largest share of state-owned companies/enterprises / institutions (Figure 20). For instance, 25% of the firms engaged in the sub-sector are state-owned, whereas only 0-2% of enterprises in the other two sub-sectors are state-owned.

In the sub-sector of adjacent services, the share of employees working in state-owned companies/institutions is the largest (25%) as compared to the sub-sector of Machine-building companies (2%) and the sub-sector of RPM products (0,04%). This might be partially explained by a significant share of science institutes and institutions that have been state owned from the soviet times and still remain as public property.

Figure 20: Number of companies rendering adjacent services



Source: chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

The largest number of companies engaged in adjacent services belongs to NACE code M7112 (engineering activities and related technical consultancy). In total, there are 306 companies involved in the sector, the largest being UNIVERSINJ Ltd from Chisinau with 76 employees, followed by State Engineering Institute

for Territory Design with 74 employees, State Enterprise Hidro-geological Expedition from Moldova with 63 employees, State Institute for geodesy, Technical Prospects and Cadastre INGEOCAD with 62 employees.

M7120 Technical testing and analysis sub-industry is the second largest in the adjacent services category. The largest company is a state enterprise from Chisinau, Applied Metrology & Licensing Centre with 158 employees (C7120), followed by Proservice with 139 employees, and State Energetic Inspectorate with 130 employees.

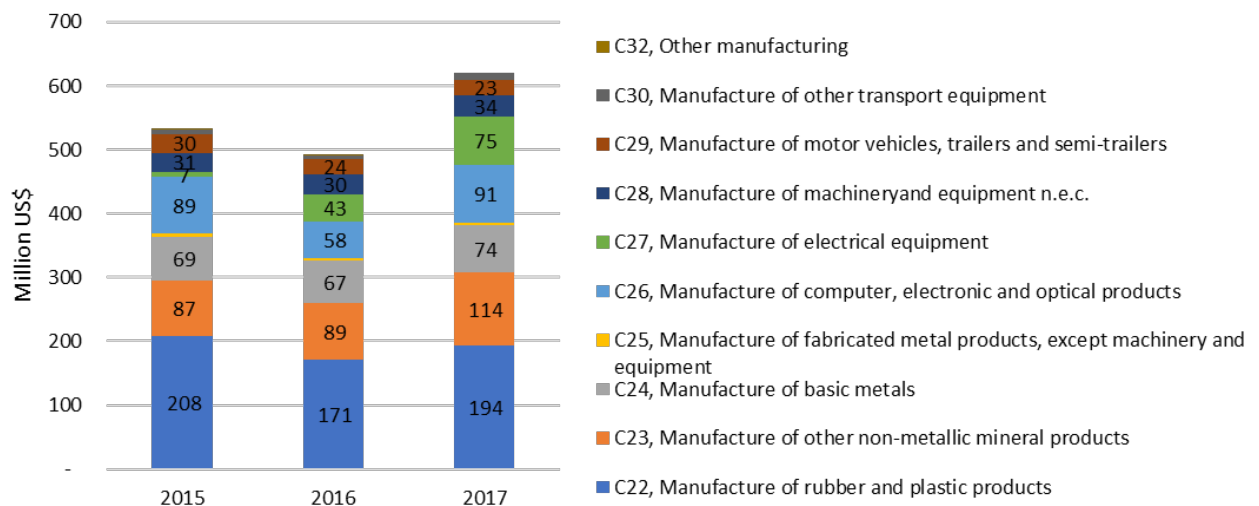
In the sub-industry C3312 (repair of machinery) the only large company is Liftservice mentioned above. The rest have 66 employees or less.

## 2.9 Production volumes, Republic of Moldova

**Overall**, production volume in 2016 equalled to \$13,221 million, of which the **processing industry** totalled \$2,997 million, resulting in a share of 22.7%. The production value of the **analysed categories of machine-building sectors**, amounted to \$492 million, resulting in a 3.7% share in the overall production.

The production value from 2015-2017 experienced a small decrease in 2016, and an increase in 2017 (Figure 21). The largest group of RPM products manufactured is “rubber and plastic products”, followed by “manufacture of non-metallic mineral products” and “manufacture of basic metals”. In the case of the core group – machine-building codes, the largest value of production belongs to “computer, electronic and optical products, being followed by “manufacture of electrical equipment”. It is worth noting that the former group has registered a steady growth trend over the analysed period. A similar trend can be observed for manufactured non-metallic mineral products”.

Figure 21: Production value (2-digit NACE codes)



**Source:** chart designed by authors based on data from National Bureau of Statistics, offered upon data request.

More detailed information on production is presented in the Table 5. From 2013-2017, there has been a general increase in the production of electrical conductors, and ignition spark cables. However, since 2005, the production of centrifugal pumps, cast iron castings, machinery to prepare foods and beverages, plows and harrows and castings of steel has decreased significantly.

Table 5: Amount of production

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Electrical conductors, with or without connectors, for voltage <=1000V, thousand pieces	-	-	-	-	-	-	-	-	3,007	8,691	10,960	10,508	16,632
Ignition spark cables and other sets of cables of the type used in transportation vehicles, tones	-	-	-	-	-	-	-	-	-	11,593	13,109	12,094	13,249
Metal fabrics, grids, nets and girders, of iron or steel wire, tones	-	-	-	-	7	4,489	3,747	4,034	4,564	5,514	5,143	5,403	6,010
Personal computers, non-portable, pieces	4,662	5,030	3,949	3,900	3,972	5,134	10,678	9,075	7,700	6,292	5,600	5,369	4,274
Centrifugal pumps, other pumps for liquids or liquid elevators, pieces	3,704	3,302	3,332	2,344	957	1,537	2,318	2,187	1,771	1,361	910	1,180	964
Cast iron castings, tones	2,214	1,914	1,878	1,294	784	875	1,009	953	898	902	675	651	483
Machinery and equipment for the industrial preparation of food or beverages, oils, animal or vegetable fats, not included in other categories	1,213	1,388	235	103	334	551	571	502	202	559	297	309	457
Plows and disc harrows, pieces	725	514	388	594	397	846	628	438	365	312	227	187	285
Castings of steel, tones	173	222	125	109	31	59	73	77	85	46	70	36	53
Castings of light non-ferrous metals, tones	8	8	8	8	6	6	12	12	14	7	10	-	-

**Note:** this table needs to be analysed with caution – the amount of production for different product categories is presented in different units of measure. Thus, this table represents well the trends, but less well – the relative prevalence of the product categories. For instance, the “personal computers” are presented here in “pieces”, while the “electrical conductors” – in “thousand pieces”.

The colouring was done “per row”, thus the colour is the most intense for the highest figures per each row.

**Source:** chart designed by authors based on data from National Bureau of Statistics, www.statistica.md.

Table 6 presents the top 10 NACE codes in terms of production value. Plastic products occupy the top position with a value of \$125 million or a share of 25% from the value of 2017 exports of analysed products. This product category has experienced a steady growth from \$97 to \$125 million.

It is worth noting that over the analysed period, the value of group 29.3 “manufacture of parts and accessories for motor vehicles” has increased from \$8 million to \$79 million. The explanation for this phenomenon again lies in the increasing interest of foreign investors in increasing local production capacities for cables.

Table 6: Top 10 3-digit NACE codes in terms of production value, million \$

Code	Name	2015	2016	2017	2017%
				mil \$	%
22.2	Manufacture of plastics products	97	105	125	25
27.3	Manufacture of wiring and wiring devices	96	64	93	18
29.3	Manufacture of parts and accessories for motor vehicles	8	44	79	15
25.9	Manufacture of other fabricated metal products	37	40	40	8
33.1	Repair of fabricated metal products, machinery and equipment	27	27	29	6
25.1	Manufacture of structural metal products	28	25	29	6
26.5	Manufacture of instruments and appliances for measuring, testing and navigation; watches and clocks	30	26	23	5
23.9	Manufacture of abrasive products and non-metallic mineral products n.e.c.	20	12	15	3
28.2	Manufacture of other general-purpose machinery	8	10	15	3
28.3	Manufacture of agricultural and forestry machinery	5	8	10	2

**Source:** table designed by authors based on data from National Bureau of Statistics, offered upon data request. The table only presents the top 10 codes, thus, the percentage do not sum up to 100%.

## 2.10 Exports and imports in the sector

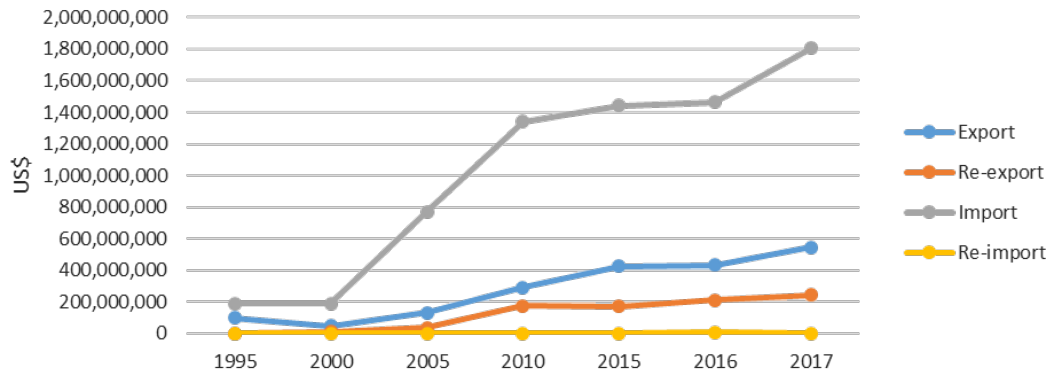
Trade flows show (Figure 22) that imports are net superior to exports for the analysed sub-industries. In particular, imports growth is greater than export growth. For instance, in 2005 the value of imports increased three-fold and by 2010 imports grew by seven-fold, compared to 2000. Exports, on the other hand, decreased from 1995 to 2000 almost in half. However, from 2005, there has been a growth trend (+179% as compared to 2000 or +34% as compared to 1995). Import upward trend is steeper as compared to



exports; it somewhat paused in 2010 and rocketed again in 2017. A similar trend can be observed for exports over the same period.

In addition, while the share of re-import is close to non-existent, the share of re-export is significant, compared to total exports. Therefore, in order to analyse domestic goods' exports, re-exports are subtracted from export value. The same procedure is carried out for import and re-import. It is worth noting that re-imports are close to non-existent over the entire analysed period.

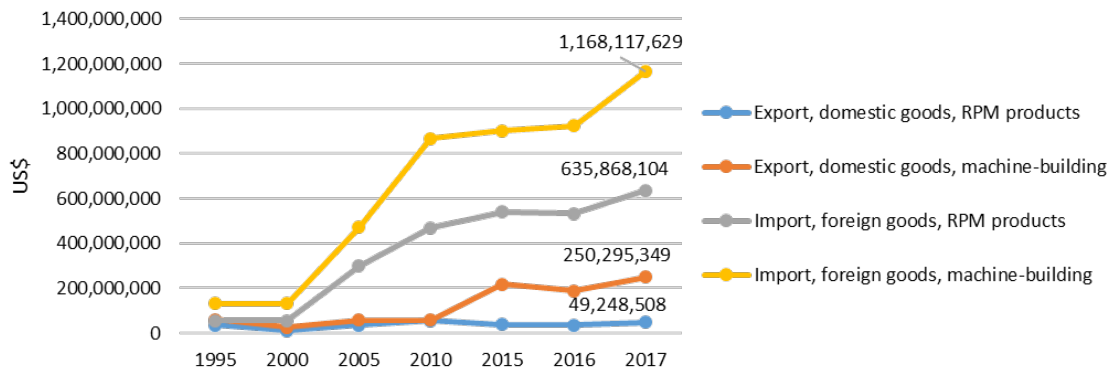
Figure 22: Dynamics of external trade flows



Source: chart designed by authors based on UN Comtrade data.

Overall, in terms of both exports and imports, there is a greater trade flow within the machine-building sub-industry compared to RPM products (Figure 23). However, imports for both sub-industries have been increasing from 1995 to 2017. Exports of machine-building industry since 2010 have shown a more prominent increasing trend than exports of RPM products.

Figure 23: Dynamics of export and import, by type of product<sup>5</sup>

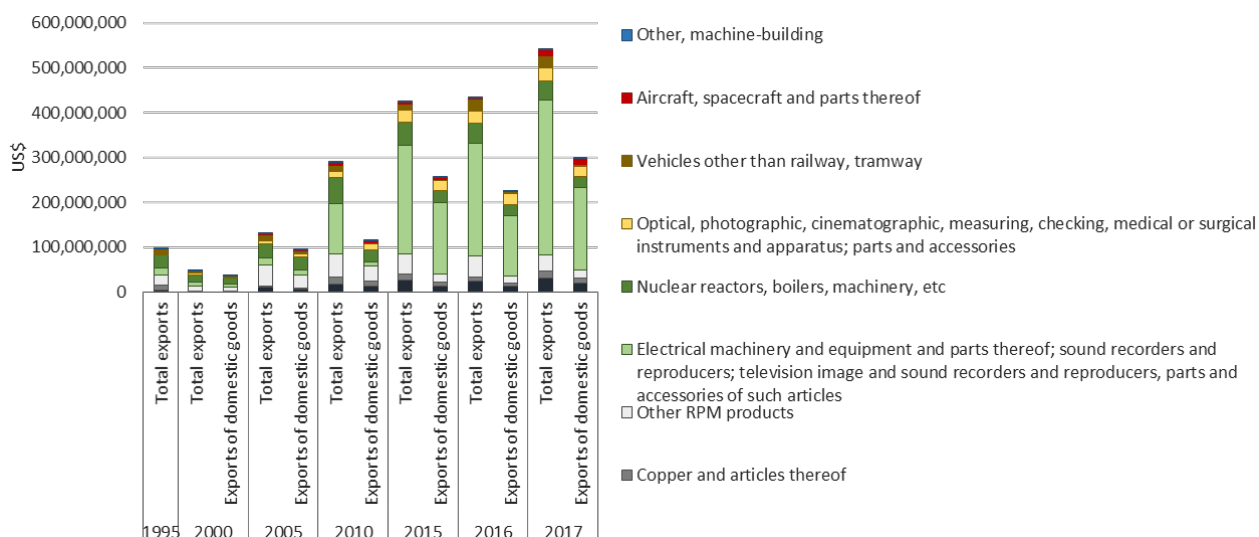


Source: chart designed by authors based on data from <https://comtrade.un.org/>.

<sup>5</sup> In order to analyse domestic goods exports, the re-exports were subtracted from exports, however, there is no data on re-exports for 1995. In order to analyse imports, re-imports were subtracted from the total value of imports, however there is a lack of data for 1995, 2000, 2005 (the chart below presents the result of the subtraction of the re-exports from exports and of the re-imports from imports, and therefore for 1995, 2000, 2005 the chart presents the total imports/ exports, since there is no data on re-imports/ re-exports). While in the case of re-imports it is not a problem, since their value is not significant compared to the value of imports, in case of exports, this might be considered an issue while interpreting data for 1995.

The largest share of Moldovan export in the machine-building industry belongs to the HS code 85 - electrical machinery and equipment and parts thereof, sound recorders, TV image recorders and reproducers, parts and accessories” (Figure 24). The second largest export value belongs to “nuclear reactors, boilers, machinery”. As it could have been expected, 87% of the exports within this category belong to the 4-digit code 8544 - insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors. This is directly related to the fact that cable production is of a significant importance for Moldovan machine-building at the moment. The 4-digit codes export details are presented in the table 7.

Figure 24: Export structure, HS-2



**Note:** exports of domestic goods were calculated by authors via subtraction of re-exports from exports.

**Source:** chart designed by the authors based on the data from <https://comtrade.un.org/>.

Insulated wire cable and other electric conductors (HS code 8544) represented 59% in 2017 of the value of exports of domestic goods (or 57% in 2016). At present, the machine-building industry is mostly represented by this sub-industry (see Table 7 and Table 8). In 2016 the following largest share (7%) in the trade value of exports of belonged to gas, liquid or electricity supply or production meters, including calibrating meters. In 2017 the following largest share belonged to plastic goods (6%).

It is worth noting that aircraft exports that enter the top 5 exports for 2017 are most likely a result of export of **some** aircraft that has previously been imported by Moldova, but earlier than in the year of 2017. The full detailed table with the exports of domestic goods per 4-digit codes is presented in the Appendix 3.

Table 7: Exports of domestic goods. Top 10 positions, 2016

Year	Commodity	Commodity Code	Trade Value (\$)	% of the trade value
2016	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8,544	126,389,173	57
2016	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9,028	16,475,143	7
2016	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8,413	10,834,458	5
2016	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3,923	9,452,523	4
2016	Copper; waste and scrap	7,404	6,237,916	3
2016	Navigational instruments and appliances; direction finding compasses	9,014	2,893,627	1.3
2016	Aluminium; waste and scrap	7,602	2,832,098	1.3
2016	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8,309	2,425,714	1.1

2016	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8,703	2,341,564	1.1
2016	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8,548	2,161,863	1.0

Source: UN Comtrade.

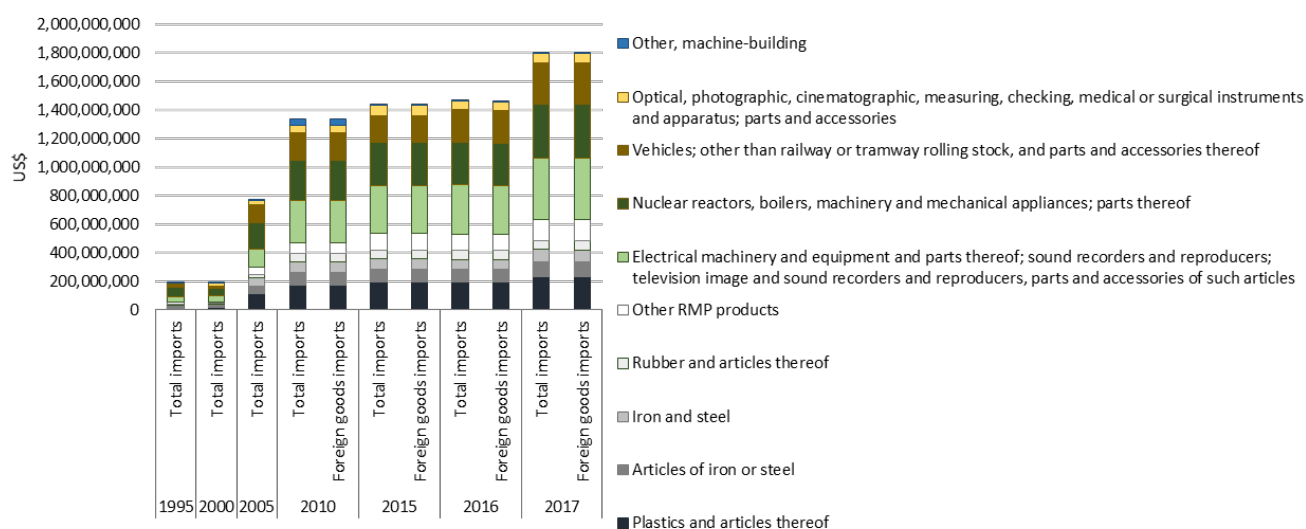
Table 8: Exports of domestic goods. Top 10 positions, 2017

Year	Commodity	Commodity Code	Trade Value (\$)	% of the trade value
2017	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8,544	173,441,782	59
2017	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3,923	17,118,294	6
2017	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9,028	14,790,174	5
2017	Aircraft n.e.c. in heading no. 8801 (e.g. helicopters, aeroplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles	8,802	14,004,261	5
2017	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8,413	8,914,024	3
2017	Copper; waste and scrap	7,404	8,246,780	3
2017	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8,548	3,725,190	1
2017	Aluminium; waste and scrap	7,602	3,616,348	1
2017	Electric transformers, static converters (e.g. rectifiers) and inductors	8,504	2,943,186	1
2017	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8,309	2,776,673	1

Source: UN Comtrade.

Imports steadily increased from 1995 to 2017 (see Figure 25). The largest share of imports belongs to electrical machinery and equipment and parts thereof; sound recorders and reproducers; television image and sound recorders and reproducers, parts and accessories of such articles” (in 2017 the share of this code equalled to 24%), followed by “nuclear reactors, boilers, machinery and mechanical appliances; parts thereof” (in 2017 this share equalled 21%), the top third category of imports is vehicles (16% in 2017). The 4-digit top of imports is presented below.

Figure 25: Imports structure, HS-2



Source: chart designed by the authors based on the data from <https://comtrade.un.org/>.

When analysed at the level of 4-digit codes, it can be concluded that the majority of imports in the case of machine-building industry are directed for consumer use. Vehicles have the largest share of imports – 8.1% in 2017. The following category, insulated wire and cables (6.2%), can be viewed as an input for the future exports – exports of cables. The top third category is also most likely directed for the B2C market: telephone sets that in 2017 had a share of 5.2%.

It is worth noting that while exports are very concentrated in one category, imports are distributed among many different categories. While in the case of exports, top 10 goods sum up to 85%, in case of imports, top 10 positions cumulatively have a share of 33% in the total value of imports in 2016 and 42% in 2017. The full detailed table with the exports of domestic goods per 4-digit codes is presented in Appendix 4.

Table 9: Imports of domestic goods. Top 10 positions, 2016

Year	Commodity	Commodity Code	Trade Value (\$)	% of trade value
2016	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8703	107,287,801	7.4
2016	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8544	76,674,072	5.3
2016	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8517	60,423,258	4.2
2016	Tractors; (other than tractors of heading no 8709)	8701	40,637,309	2.8
2016	Copper wire	7408	38,667,640	2.7
2016	New pneumatic tyres, of rubber	4011	36,600,395	2.5
2016	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8708	36,386,712	2.5
2016	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8536	33,919,140	2.3
2016	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8471	25,854,468	1.8
2016	Insulating fittings; for electrical machines, appliances, equipment, excluding insulators of heading no. 8546, electrical conduit tubing and joints therefore	8547	25,486,327	1.8

Source: UN Comtrade.

Table 10: Imports of domestic goods. Top 10 positions, 2017

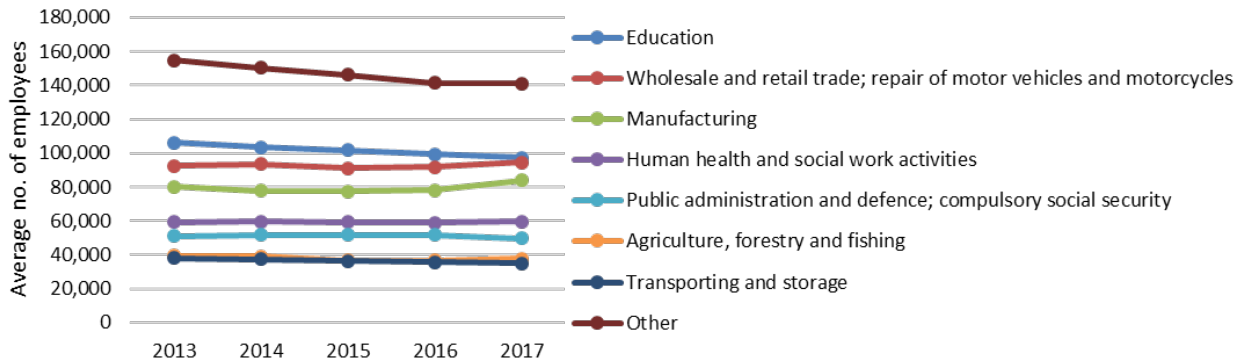
Year	Commodity	Commodity Code	Trade Value (\$)	% of trade value
2017	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8703	145,722,070	8.1
2017	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8544	101,990,214	6.2
2017	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8517	81,672,623	5.2
2017	Copper wire	7408	66,771,388	4.5
2017	Tractors; (other than tractors of heading no 8709)	8701	52,983,158	3.8
2017	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8708	42,137,233	3.1
2017	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8536	41,973,072	3.2
2017	New pneumatic tyres, of rubber	4011	36,081,832	2.8
2017	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8471	32,835,665	2.7
2017	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading no. 8415	8418	31,117,534	2.6

Source: UN Comtrade

### 2.11 Human resources

The top three economic activities in terms of employment in Moldova include education (16% of employed population in 2017 worked in the education sector), wholesale and retail trade (16%) and manufacturing (14%). While education is predominantly public sector activity, the remaining two represent mostly the private sector.

Figure 26: Number of employees in different sectors of Moldovan economy from 2013 to 2017

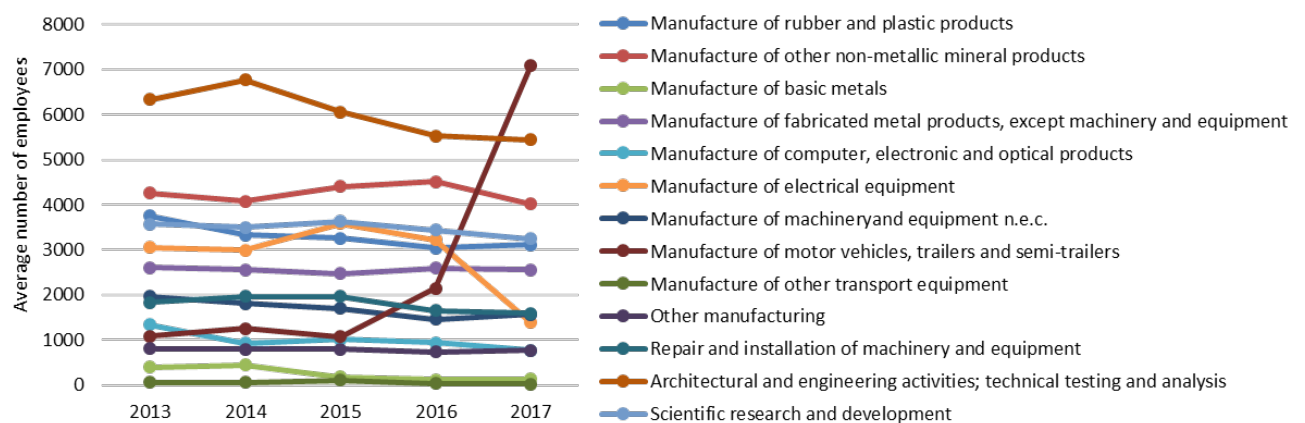


Source: chart designed by authors based on data from National Bureau of Statistics, www.statistica.md.

Machine-building belongs to the manufacturing industry and its share in employment from 2013 – 2017 remained stable at around 5%.

Deeper analysis of the machine-building sub-sectors reveals a significant increase (6.5-fold as compared to 2013) in employment within the sub-sector for manufactured moto vehicles, trailers and semi-trailers”. However, the number of employees engaged in manufactured electrical equipment decreased in 2016 and 2017.

Figure 27: Number of employees in machine-building industry from 2013 to 2017



Source: chart designed by authors based on data from National Bureau of Statistics, www.statistica.md.

### Educational opportunities

Moldova has several technology-oriented educational institutions, including the Technical University of Moldova, technical colleges and vocational schools. Recently the Government implemented several measures in order to match the professional education system to labour market expectations and needs, and particularly – creation of excellence centres and dual education system.

There was created a Centre of Excellence in Energetics and Electronics, placed in Chisinau (former College of Telecommunications), Centre of Excellence in Transportation (former Transportation College).

In 2014, a dual education system was launched in Moldova<sup>6</sup>. The dual education system implies a combination of studies in a vocational school with apprenticeship in a company. There already are several professional schools and colleges that offer technical educational paths and have an established collaboration with private companies that accept students for apprenticeships in real-life conditions. Thus, the educational time is distributed between theory and practical application in proportion 30% theory and 70% practice.

Both local and foreign capital companies participate in the dual education system in Moldova. The following companies offer jobs for dual education in collaboration with the professional schools and colleges: Draexlmaier, Moldagrotehnica, Sammy Cablaggi, Summimoto Electric Bordnetze, Aspa, Arttehmet, Oiltech, Liftservice, Baslift, Grandlift, Airons, Coroplast Harness Technology, Bastractor, Grip Engineering. The advantage of dual education is related to the opportunity to acquire qualified personnel at the stage when the students are in the process of obtaining their diploma, thus, the company has the opportunity to spot the students with the highest potential, to educate them according to their own processes and needs and to motivate them to continue working for the company.

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<sup>6</sup> <https://www.ipt.md/ro/invatamint-dual>.

### 3 SURVEY RESULTS

This chapter presents the results of the survey carried out among 50 companies. The sample is not representative of the entire industry. Nevertheless, the results provide an insight into the sector. The detailed methodology of the survey is presented in the introduction to this report.

The goal of the sampling frame was to represent the top machine-building companies in Moldova. Only companies with 51%+ local capital and that were large-sized with a prominence in each of the sub-sectors.

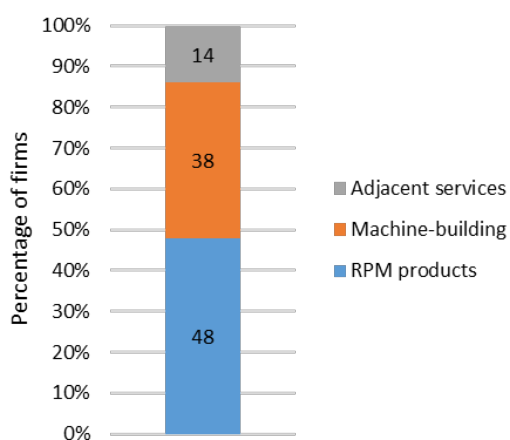
#### 3.1 Respondent profiling

Almost half of the interviewed companies engage in manufacturing RPM products (48%), followed by machine-building (38%) and then adjacent services (14%). The official NACE code represents the main sphere of activity; however, the company can have a range of economic activities. Thus, the majority of those that work in machine-building also provide other services, such as research and design, montage services, as well as assemblage and dismantlement.

Most common product categories include the following: agricultural equipment (including tractors), food industry equipment, hydro-acoustic devices (for navigation and other purposes), pumps, cables, tubes, scales. Some companies in the RPM sector specialize in production of mass-market products from plastic, and some specialize in the production of metallic roofs.

The firms that engage in adjacent service include montage, assemblage and dismantlement; repairs, maintenance and monitoring; design, programming, research and product development, consulting; and process automatization. Some firms also carry out a range of production processes, such as thermal treatment, injection, mechanical treatment, cutting, stamping, and welding.

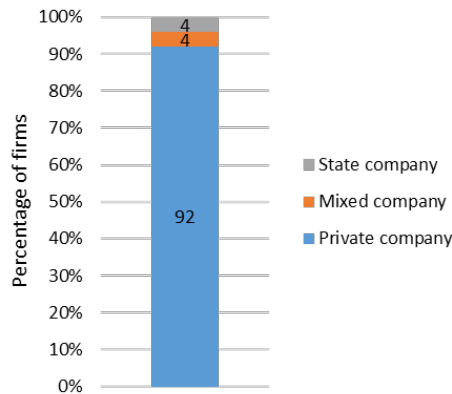
Figure 28: Type of enterprise



Source: calculated based on survey results.

The majority of the surveyed companies are private-owned (92%).

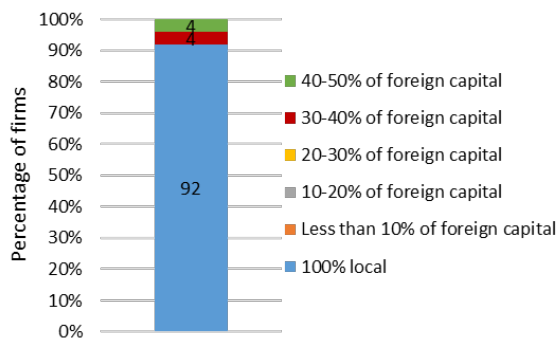
Figure 29: Ownership in the interviewed companies



Source: calculated based on survey results.

Moreover, 4 companies (8% of the sample) that hold between a 30%-50% share in foreign capital (30 to 50% of the company capital is foreign), have investments from the following countries: France, Holland, Russia, USA (1 company per country).

Figure 30: Local/ foreign capital of the company, N=50



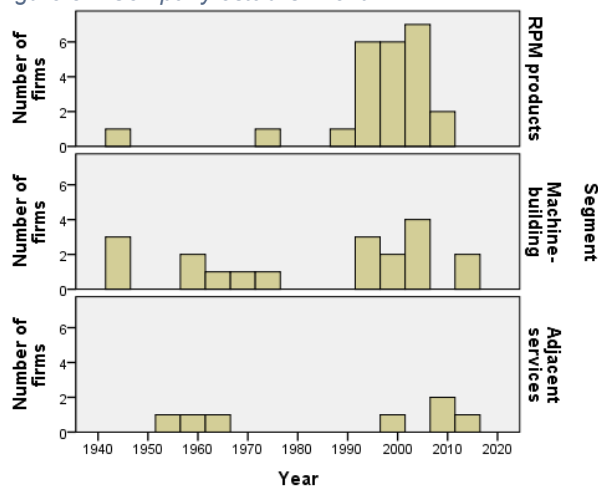
Note: the chart above presents options starting with 50% foreign capital and down to 0 foreign capital, because this was a filtering question and companies with more than 50% foreign capital were not interviewed.

Source: calculated based on survey results.

Many of the surveyed companies were established during the Soviet Union. For instance, several of them were established after the Second World War (Raut, INTEH, Moldagroteh), and others between the 1950s and 1970s (RIF-ACVAAPARAT, Introsco, ELIRI, Hidrotehnica, Mecagro, Lumintehnica, Moldovahidromas, Incomas, Hidroinpex). Around fifteen companies opened in the 1990s, most of which are engaged in manufacturing RPM products. Moreover, 17 companies were established after 2000. The remaining five interviewed companies were established in the decade 2010+.



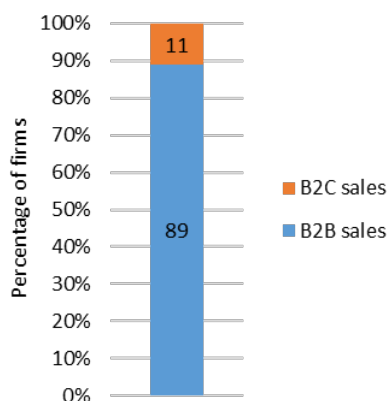
Figure 31: Company establishment



Source: calculated based on survey results.

Out of the 50 companies, 23 sell exclusively to other businesses and 14 sell between 90 and 99% of their products through B2B sales, while the remaining 11% work sell their goods directly to consumers.

Figure 32: Company sales, N=50



Source: calculated based on survey results.

### 3.2 Membership in associations

The survey reveals that only five companies are members of an association. Three firms are APIP members and two of them consider this membership as useful. Two firms mentioned that they are members of the Chamber of Commerce and Industry, even though the Chamber is not an association (one respondent evaluated membership as very useful, while the other as neither not useful nor useful). One surveyed enterprise is a member of the Employers' Association Union of Industrialists and Entrepreneurs from Moldova and assessed its membership as little useful. Another one is a member of the Association of Businessmen from Moldova and considered its membership very useful.

As it could be expected, the chances for the firms from Chisinau and Balti (the two largest urban localities from the country, concentrating a large share of the country business) to benefit from development opportunities are higher. Two of the companies that are members of any associations are from Balti and three are from Chisinau. The five firms that indicate they members of an association and locally-owned and belong to machine-building industry. Four of them also have private capital and one holds with mixed capital.

Talking about types of assistance expected from membership in the associations, those five respondents, who stated that their company belongs to an association, mentioned the following: participation in legislation changes, help in finding new partners, organisation of seminars, promotion of loyal competition,

organization of industry meetings. The respondents also noted that the associations they belong to in the present overall do offer these types of assistance.

### 3.3 Governmental assistance and assistance from international organizations

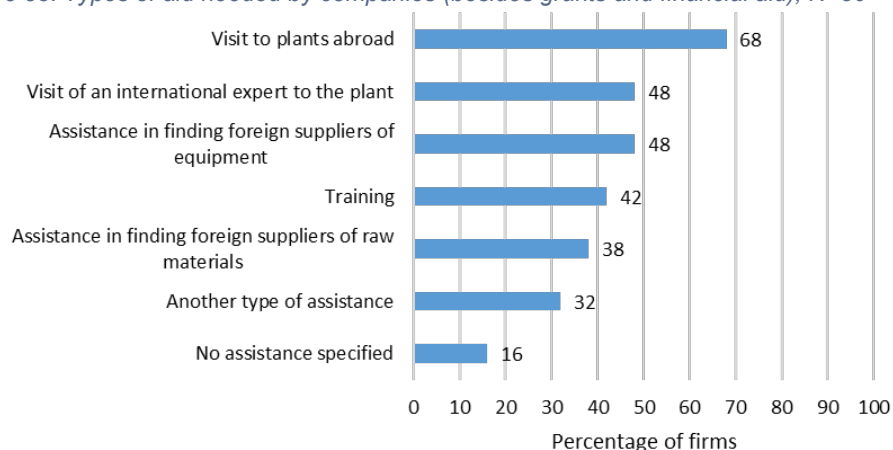
Nine companies received some type of external assistance from the Government or international organizations and found the aid to be useful.

Only two companies mentioned that they had received governmental assistance. One of the companies situated in the Northern region mentioned that Governmental aid came for ADR Nord (North Regional Development Agency) for territory improvement, reconstruction of the water system, and reconstruction of the electrical networks. The second company mentioned financial aid from the Government and received monetary support for 5 years from 2013 till 2018.

Nine companies received some type of aid from international organizations and development agencies (UNIDO, EBRD (2 respondents), Norway, MIEPO (3 respondents), SARD, Holland):

- Grant (two companies)
- Coverage of marketing and promotion expenses, brand book design (2 companies)
- Financial aid for development of new alloys (1 company)
- Support in participation at international exhibitions (2 companies)
- Equipment (1 company)
- Recommendation of a client (1 company)
- Setting quality management system (1 company)

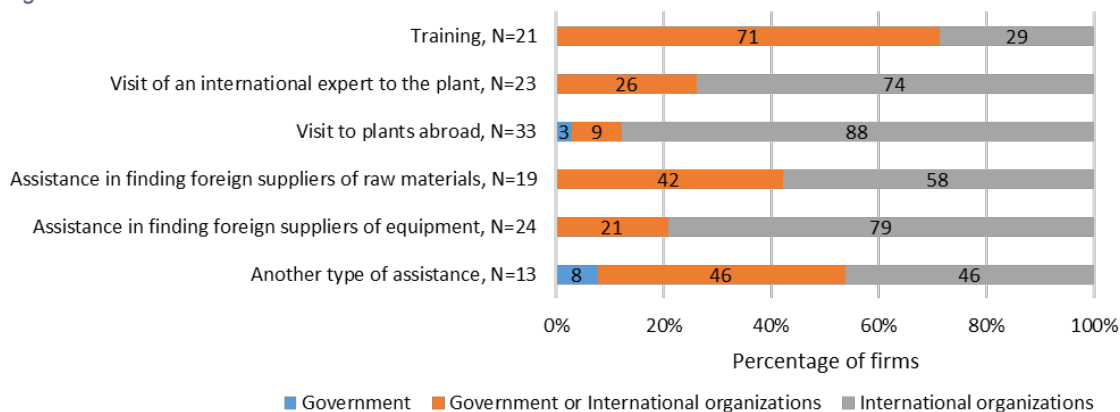
Figure 33: Types of aid needed by companies (besides grants and financial aid), N=50



Source: calculated based on survey results.

In the majority of cases, most companies would prefer to obtain assistance from an international organization rather than from the Government. However, when specifying the desired provider for the trainings, both – Government and international organizations were mentioned quite often.

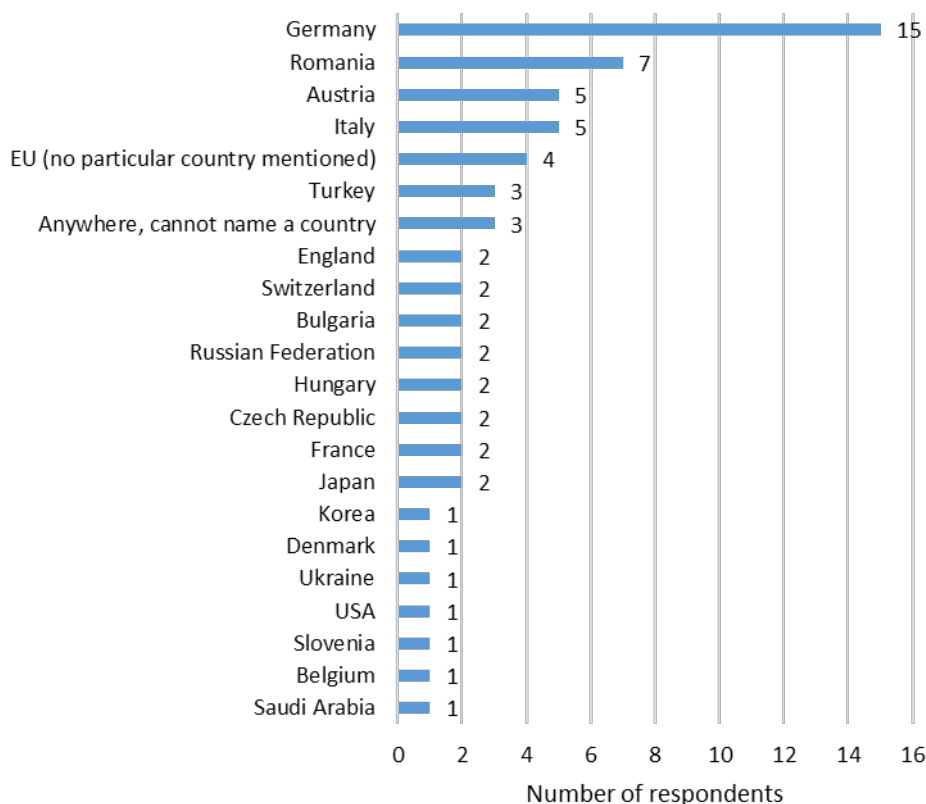
Figure 34: Preferred source of assistance



Source: calculated based on survey results.

When asked about preferred potential aid from Government or international organization (aid other than grants or financial resources), 68% of the respondents noted that they would prefer study tours to manufacturing plants abroad. Germany is the most often named country, where the respondents would like to travel in order to visit manufacturing plants. Four people mentioned the EU in general, not specifying the country. Some respondents just noted that they would appreciate if they had such an opportunity – to visit plants abroad.

Figure 35: Countries where there are plants that the respondents would like to visit



Visit of an international expert to the companies was the second most often named type of desired aid (48%). For instance, most companies mentioned they would like to receive a visit from experts in their particular industry (assemblage and production of electronic products, pumps construction, electrical works and automatization, metal processing, etc.). Two companies mentioned that they would like to receive expert advice in relation to marketing, and three mentioned issues related to metrology, certification, and quality management. One respondent named companies, from which they would welcome the experts: COSL and AKER from Norway.

Table 11: Training subjects solicited by the respondents

Responses	Number of respondents
Trainings for employees, performance improvement	9
Marketing, exhibitions, sales, public procurement	4
New technology application	3
Management	2
External markets, exporting	2
English language	1
Waste management	1
Fiscal facilities	1

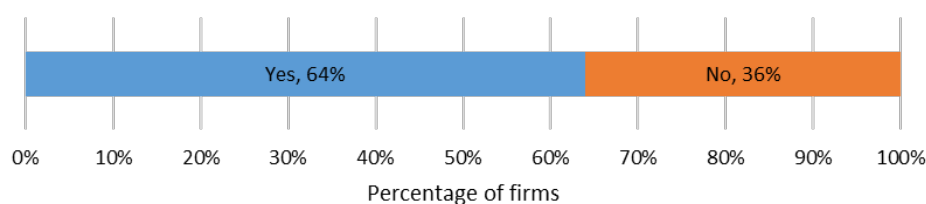
### 3.4 Exports

The survey reveals that 70% of the firms exported in the past three years and 64% exported in 2017. According to the results, 79% of machine-building firms exported in the past three years, and 63% of RPM firms exported in the same period.

Among companies that deliver their products to enterprises belonging to the machine-building industry, the share of those that exported in the past three years is larger than the case of companies that do not have clients in the industry (86% as compared to 64%). Thus, entering the machine-building sphere forces the companies to look for partners abroad and to export, since the number of potential partners in the country is extremely small.

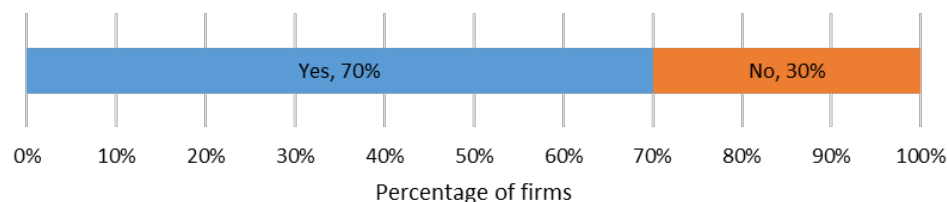
The variables “company age” and “exports in the past 3 years” have no statistically significant relation.

Figure 36: Export in 2017, %



Source: calculated based on survey results.

Figure 37: Exported in the past 3 years (2015-2017), %



Source: calculated based on survey results.

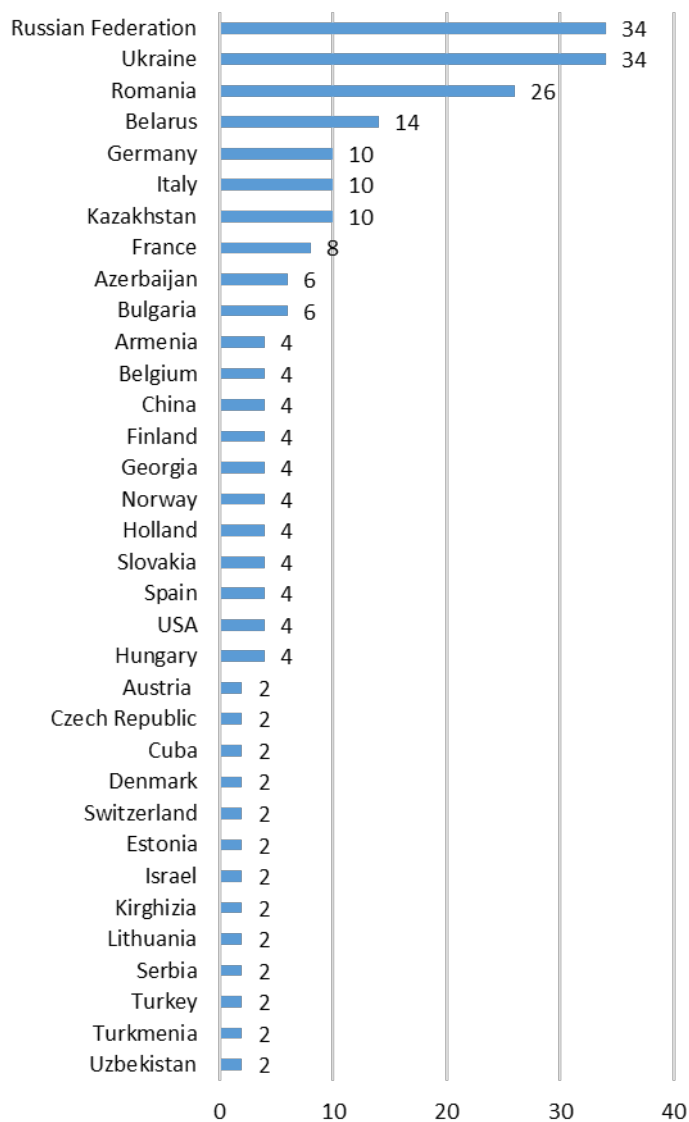
Fifteen of the interviewed companies export 80% or more of their production and thirteen companies work predominantly on the local market, for which 80% or more of the production is sold locally.

The firms identified the following top barriers to growth and export:

- customer identification (11 resp.);
- lack of competent human resources (6 pers.);
- customs procedures are bureaucratic (6 resp.);
- lack of investors, financial issues (6 resp.);
- problem with suppliers – expensive raw material, lack of suppliers, bad quality of material (6 resp.) + 3 respondents noted expensive energy resources, 2 – lack of modern equipment, 3 – high expenditures on transportation for exports;
- certification requirements (5 resp.);
- international relations, politics (Ukrainian situation, lack of opportunity to export to Russia via Ukraine); exchange rate fluctuation, Moldovan legislation is imperfect (5 resp.);
- competition (4 resp.).

The results indicate that the main export destinations include Russia, Ukraine and Romania. Belarus is also in the top 4. Germany, Italy and Kazakhstan were each named by 5 respondents out of 50. Overall, the Central Asian direction is quite explored by the Moldovan exporters: Kazakhstan, Azerbaijan, Armenia, Kirghizia, Turkmenia, Uzbekistan. Still, overall, the survey reveals that European countries cumulate a larger share of Moldovan sales than other destinations.

Figure 38: Export destinations



Source: calculated based on survey results.

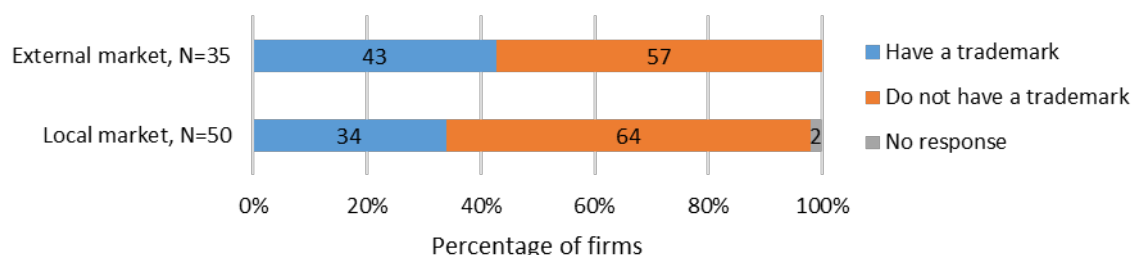
### 3.5 Marketing

In order to analyse to what extent companies apply marketing in their activity, a set of questions was addressed about trade-mark, assessing client necessities, promotional methods, and strategy design.

A significant share of companies does have a trademark. For instance, 64% of the enterprises do not have a domestic trademark for their products and 57% do not hold a trademark for international markets.

Furthermore, given the fact that the share of B2B sales in the portfolio of the interviewees prevails over B2C sales, it is an explicable finding: quite often companies have a limited number of loyal customers and they trade their merchandise only to them, thus having no plans for extension, they consider they do not need to have a trademark or invest in marketing.

Figure 39: Trademarks for products / services sold on the local market and on the external market

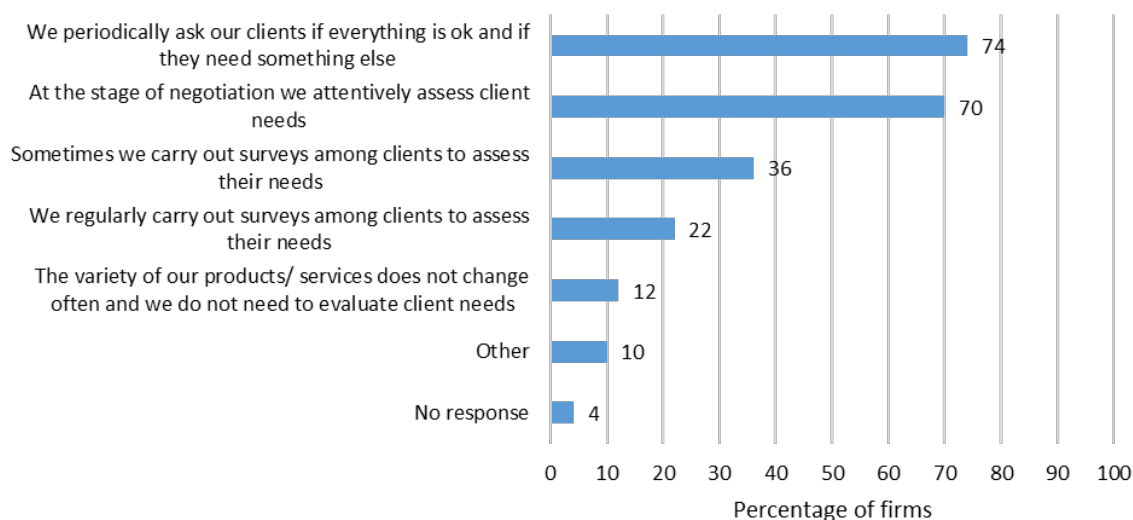


Source: calculated based on survey results.

It is important to assess client needs regularly in order to track the trends, compare what the company has to offer and understanding client needs and adapting to them.

When asked about the methods used for clients' needs assessment, the majority of the interviewees stated that they tend to assess client needs at the stage of contract negotiation (70%) and would subsequently ask the clients periodically if they need something else (74%). Furthermore, 12% of the surveyed enterprises consider that since their product assortment does not vary significantly, there is no need to inquire about client needs and 36% indicated that they would carry out surveys to assess client needs from time-to-time and 22% affirm that they do it periodically.

Figure 40: Methods for client-needs assessment



Source: calculated based on survey results.

The firms were asked about what promotional channels they use in order to attract new clients on the local and foreign market. For the local market the following channels are mostly used by enterprises: participation in exhibitions and fairs (64%), promotion via specialized web-sites (64%), and direct sales (62%). Around 44% of the respondents also noted that clients find them on their own.

Figure 40: Promotion channels for products/ services on the local market



Source: calculated based on survey results.

Furthermore, the survey also reveals that half of the exporting companies find clients via international exhibitions and fairs, 46% do direct sales through flyers and samples, 37% of the surveyed enterprises participate in local exhibitions and trade fairs as a means to find new foreign clients. Furthermore, around a third of the enterprises mentioned that foreign clients find them on their own.

Figure 41: Promotion channels for products/ services on the foreign market, N=35 (exporting comp.)



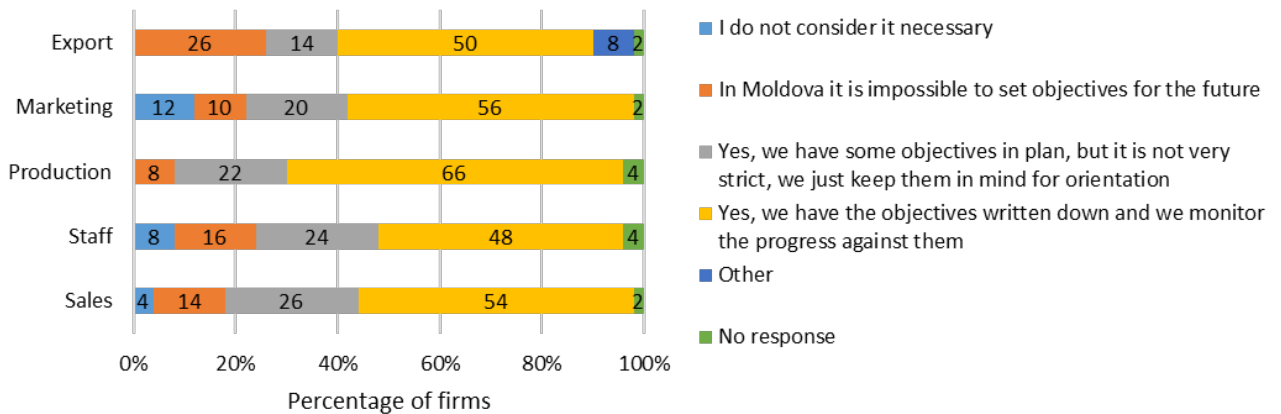
Source: calculated based on survey results.

A detailed business plan can also help increase competitiveness. The majority of the respondents indicated that they set written objectives and monitor their progress against the written business plans. However, there still are respondents who answered to the question on objectives saying that in Moldova it is impossible to set objectives for the future (between 8 and 26% depending on the area of planning as it can be seen from the figure 42).

Setting objectives for exports for the upcoming years seems the least feasible for the respondents. For instance, one in four respondents considers that in Moldova it is not possible to set objectives for the future in terms of exports. At the same time, production planning is more common among respondents. The largest share declared that they have written goals for production (66%) and only 8% considered that in Moldova it is impossible to set objectives for the future.

In the case of marketing, staffing, and sales there were respondents who do not consider it necessary to set plans for these areas.

Figure 42: Setting objectives for the following 1-3 years

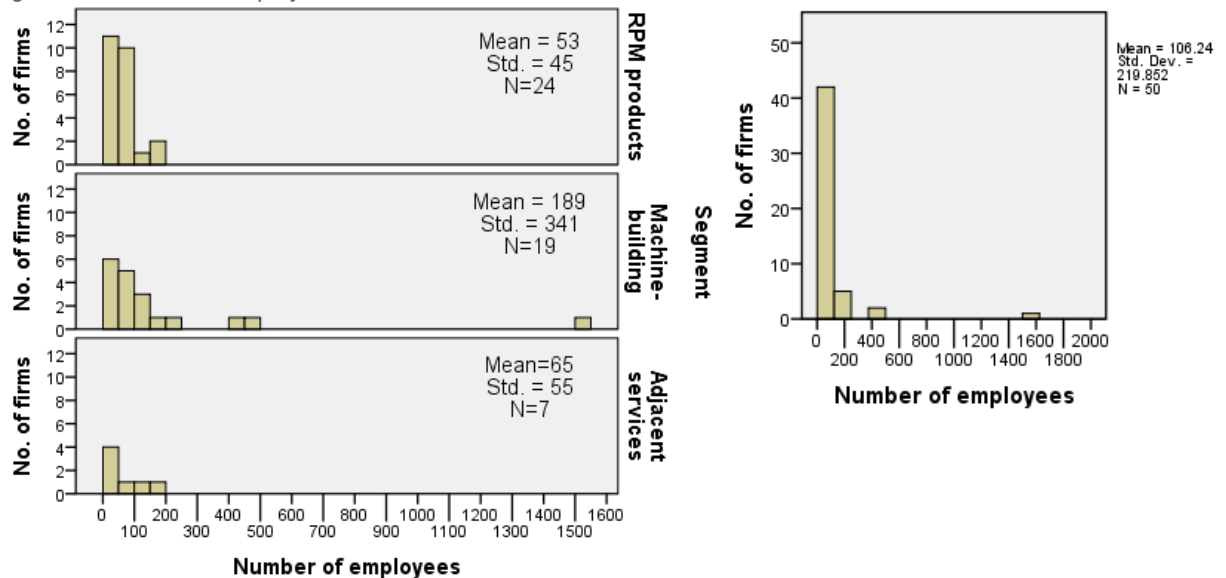


Source: calculated based on survey results.

### 3.6 Staffing

The average number of employees per company in the interviewed sample is 106 people. Majority of companies have less than 100 employees, however there are few very large companies that skew the mean value, increasing it. One firm engaging in the machine-building industry indicated that they had 1500 people. The average number of employees for machine-building overall is larger than the case for companies engaged in RPM and adjacent services industries – 189 as compared to 53 and 65 respectively.

Figure 43: Number of employees



Source: calculated based on survey results.



The largest number of vacancies is observed in the case of **operational staff** – 80 vacancies maximum and 7 vacant places on average per company. The maximum values were observed in case of RPM products company.

**Managers** of operational processes are also searched for, but quite often these vacancies are filled in with the promoted staff from the operational processes – 1 vacancy on average per company and 13 vacancies maximum in the case of a company rendering adjacent services.

**Support staff** vacancies average to 1.6 and maximum number of vacancies is 11, observed in case of RPM products company and adjacent services.

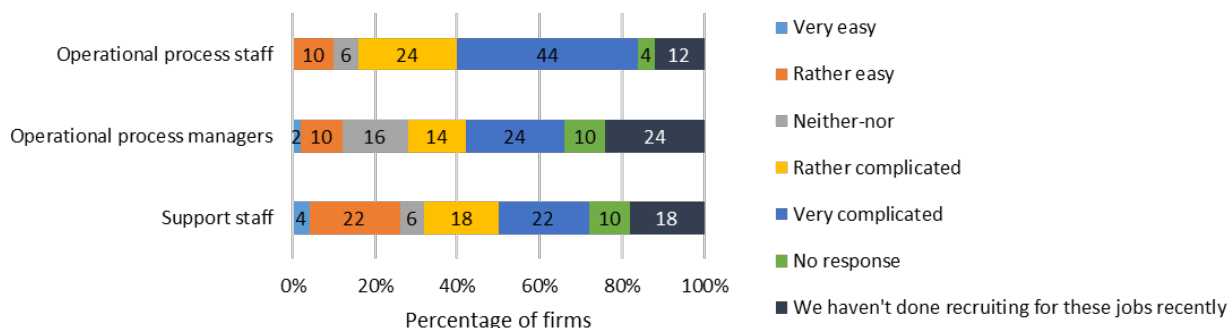
Table 11: Number of vacancies per employee *eye!*

	RPM products		Machine-building		Adjacent services		Total	
	Average	Max	Average	Max	Average	Max	Average	Max
Staff participating in operational processes, N=45	9.8	80	5.1	15	5.4	18	<b>7.2</b>	<b>80</b>
Managers of operational processes, N=43	0.6	4	0.8	5	2.8	13	<b>1.0</b>	<b>13</b>
Support staff (accounting, marketing, HR, security), N=41	1.3	11	1.6	10	2.6	11	<b>1.6</b>	<b>11</b>

**Source:** calculated based on survey results.

The surveyed enterprises indicate the difficulty to recruit employees for operational processes (44% answered that it is “very complicated” and 24% - “rather complicated”) compared to other positions. One of the explanations is related to the large number of personnel needed for operational processes. According to the survey companies lack operational personnel and are ready to recruit people with no professional education and train them in-house. A quarter of the interviewed companies have not done recruiting for the operational process managers jobs and as for the support staff, 4% noted that it is “very easy” to recruit such specialists, while 22% declared that it is “rather easy”.

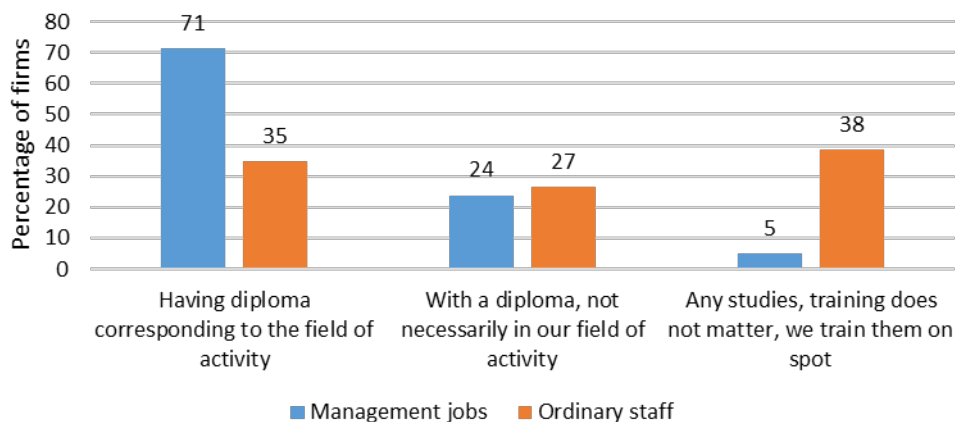
Figure 44: Level of difficulty employing new staff for the analysed positions, N=50



**Source:** calculated based on survey results.

For the managerial positions, it is more important for the candidates/ employees to have diploma corresponding to the field of activity, compared to recruiting staff for operational positions. For instance, 71% of firms indicate that their managers hold a diploma, compared to 35% of ordinary staff, which are often trained on the spot.

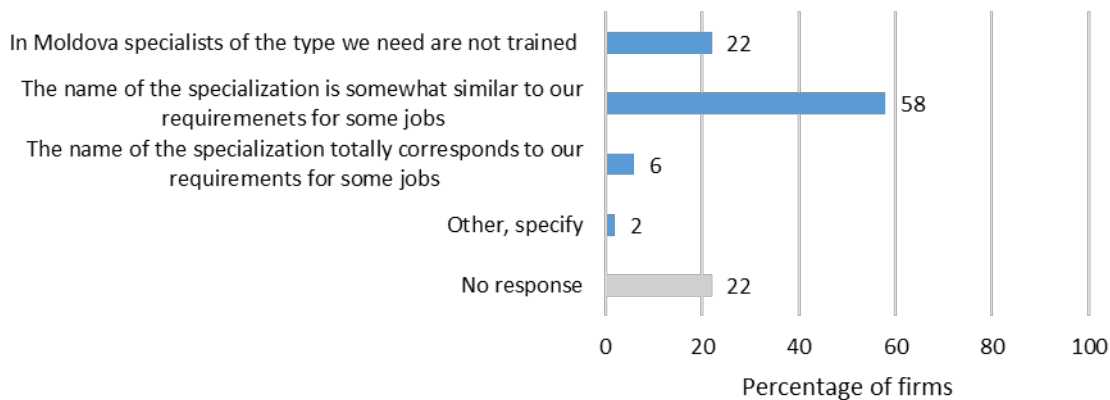
Figure 45: Share of operational process employees per type of educational background



Source: calculated based on survey results.

The majority of the companies, which have staff with a diploma noted that the name of the specialization is somewhat similar to the company requirements for some of the posts. However, it is important to note that 28% of the respondents stated that in Moldova the specialists of the type needed by their enterprise are not trained.

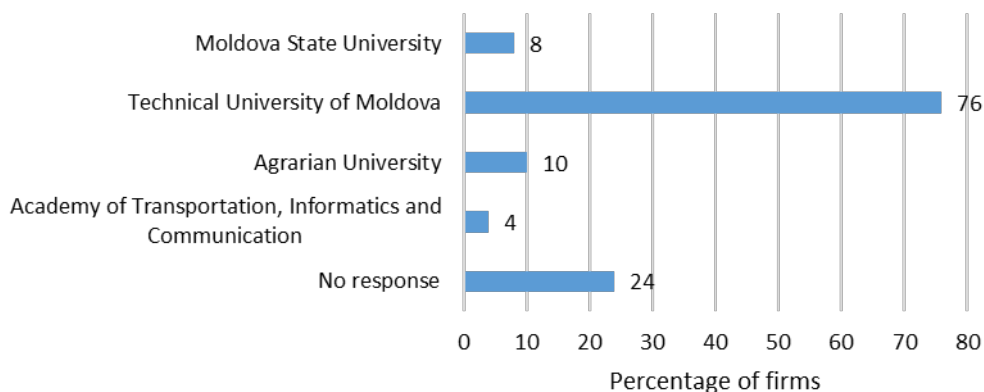
Figure 46: Correspondence of staff's diplomas to the companies' specialization needs, N=50



Source: calculated based on survey results.

In order to see what universities' graduates are most often met among companies' employees, we addressed a question asking: "What universities currently prepare human resources that are needed by your company?". Most respondents noted that among their employees there are Technical University of Moldova graduates (76%).

Figure 47: Universities, whose graduates work in the interviewed companies, N=50



Source: calculated based on survey results.

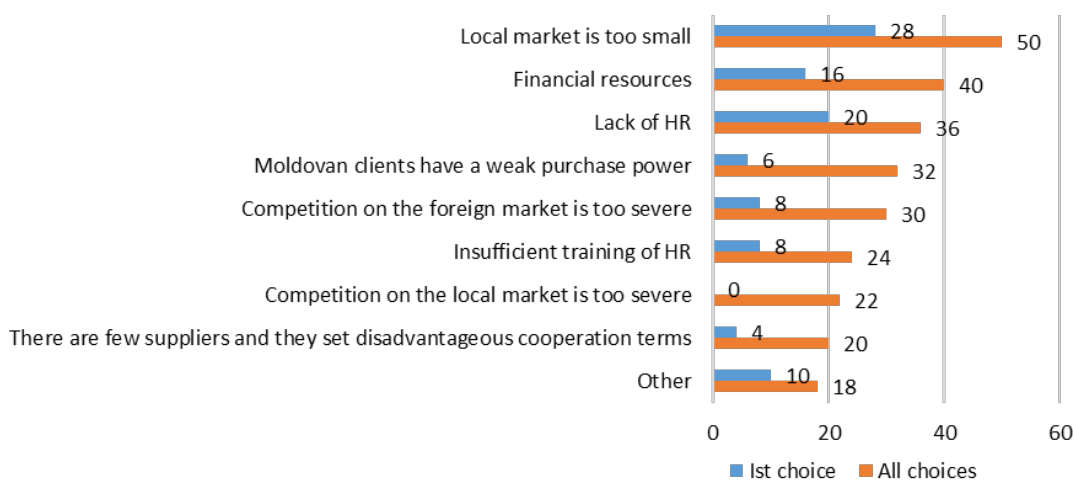
The same question was asked about colleges. Among **colleges**, the most often mentioned were technical and polytechnical colleges.

The **vocational school** that was mentioned most often was Vocational School number 10 from Chisinau (this school offers such specializations as welder, electrician, mechanist, lathe operator), Vocational School from Ceadir-Lunga (carpenters training, tractor drivers training, agricultural machines drivers training, locksmiths training, teaching restorers of plaster and stucco products) and Vocational School from Orhei (crane operator, excavator operator, locksmith).

### 3.7 Company development

The firms were asked to indicate the top three barriers for company development. The results reveal that 50% of the firms consider that the local market is too small and for 28% of the respondents this was the greatest barrier. Other key barriers include a lack of human and financial resources.

Figure 48: Top 3 barriers for company development, N=50



Source: calculated based on survey results.

**Certificates.** Access to foreign markets and development of the company overall is conditioned by the company's readiness to comply with international standards and its readiness to invest in human resources, financial resources and time in obtaining international certifications.

In this regard, the firms were asked about whether they were certified. The survey results indicate that 22 firms hold ISO certificates, most of which hold ISO 9001:2015, followed by other ISO certificates including ISO 14001, 2001 and 18001. Other firms also mentioned ATEX, GOST 3436-99, OHSAS 18001:2007, certificates of conformity, hygiene certificates, and sanitary certificates.

The firms were also asked if they had any plan to obtain other certificates.

ISO was the top choice, in particular ISO 9001.

*Table 13: Certification that the companies still need to obtain*

Responses	No. of responses
ISO and particularly ISO 9001	11
Energy Efficiency certification	2
CE marking	2
Conformity certification	2
AIR BUS	1
ACHILES	1
5S methodology	1
Keymark solar	1
ATEX	1
TUV	1
DNV	1
EN 124-2:2015, EN 124-2:2016	1

**Raw materials and other supplies.** Moldovan companies in machine-building industry are very dependent on the imports of raw materials whereas there are few natural resources relevant for this industry in Moldova. In order to account for this important business aspect, the survey asked the companies to name their raw materials and other supplies as well as specify where they were imported from. Most common types of raw materials and other supplies used by the firms include: metals and metal structures (58 responses, some companies specified several types of metal), plastic and plastic elements (21 responses), electronic component parts (23), cables (5 responses), rubber (2 responses), tubes (3), and paint (5).

The majority of the supplies come from foreign suppliers. Among the top countries that provide raw materials and other supplies include Russia (36 mentions), Romania (25 mentions), Ukraine (28 mentions), Italy (22 mentions), Germany (17 mentions), China (12 mentions), and Poland (9 mentions).

## 4 CONCLUSION

Contemporary machine-building in Moldova is characterized by remnants of the Soviet past with a growing importance of foreign-capital companies investing into cable production for exports. Foreign direct investments into the automotive industry have driven several important results: development of free economic zones, development of dual education system, and appearance of centres of excellence in areas relevant for machine-building. The number of people employed in the industry has increased, in particular within the manufacturing of motor vehicles, trailers and semi-trailers sub-sector. Production of electronic conductors, ignition spark cables has increased significantly over the past years resulting in export growth.

The statistical figures representing industry growth are mainly representative of the achievements of the foreign-capital companies producing cables and wires, while the results of Moldovan-capital companies have experienced less growth.

### Survey results

**Company development is slow-paced due to a lack of strategic management and a lack of resources.** There are few local companies that are modern and understand the importance of both up-to-date equipment and marketing for their exports. For instance, many local companies have outdated equipment and have no resources to invest in their renovation or into research and development. Many companies are also not looking for new opportunities and do not search for aid from the Government or international organizations. Some respondents in the survey noted that they would be glad to accept any aid that would be free-of-charge, such as visits to foreign plants, visits from experts from foreign countries, and financial and organizational aid for participation in international exhibitions.

The local market is viewed as a distribution destination mainly by companies producing RPM products, while machine-building companies, serving the B2B market are more export oriented. Most companies that have only been exporting for a short period, mainly export to traditional commercial partners, such as Russia, Ukraine and Romania. Furthermore, export-interested enterprises consider Germany as an important export destination and some are interested in exploring the Asian market, in particular Kazakhstan, Uzbekistan, Azerbaijan, and Tajikistan. Since many of the surveyed enterprises do not have ISO certification, targeting traditional markets is a relevant goal at least in terms of short and middle term strategies.

All companies, including foreign, are dealing with a **decreasing labour market** and lack ordinary employees for operational processes. Since the prognosis on demographical trends for the country is not positive in light of a large number of Moldovans moving abroad, **promoting Moldova as a country offering cheap labour for production of cables might not be an effective long-term strategy.** Already many companies, both local and foreign capital firms, have to deal with a lack of operational staff. As a result, large foreign-owned companies are looking for ways to broaden their hiring opportunities by offering free of charge transportation from neighbouring localities, offering on the spot training and promoting official employment. Nonetheless, they still face challenges to fill all the vacancies.

Overall, for marketing needs (ex. creating a national brand image), there should be a defined **positioning statement**, a guiding idea for promotion of Moldovan machine-building – whether it is “Agricultural machinery based on strong agricultural traditions”, “food industry equipment from a country specialized in agriculture and food industry”, “European pumps constructor with over 100 years of experience” or “an international provider of cables”, it needs to be clearly formulated and promoted among potential investors, so that it is clear what the local advantages are.

Companies either underestimate the value of **presence on the internet** or have no resources for it. Information about all types of companies (in all machine-building sub-industries and of all sizes) on the web is scarce or absent, even though according to the official data some of these companies are not small and have more than 50 employees and should have a web-page at least a basic one for the scope of presenting themselves to potential customers and investors or partners.

The sales strategies mainly focus on serving current customers and while recognizing that the domestic market is small, many companies still do not reach out to international distribution markets. Most likely there first needs to happen an internal change for companies **to consider external markets** as a strategy for development. Thus, bringing external experts, who could make the companies consider these new opportunities might be beneficial, as well as allowing companies to consider Asian export direction just as seriously as European destination – the companies might be more prepared for the Asian markets in terms of product quality and needed certifications.

## 5 APPENDIX

Appendix 1: Number of companies per analysed NACE rev. 2 codes

Code	Description	1 empl.	2 empl.	3-5 empl.	6-9 empl.	10-49 empl.	50-149 empl.	150+ empl.	Grand Total
C2211	Manufacture of rubber tires and tubes; retreading and rebuilding of rubber tires	2		2		1			5
C2219	Manufacture of other rubber products	2		2	3				7
C2221	Manufacture of plastic plates, sheets, tubes and profiles	10	1	1	2	11	1	1	27
C2222	Manufacture of plastic packing goods	11	2	4	6	6	3	3	35
C2223	Manufacture of builders' ware of plastic	76	39	86	49	40	2		292
C2229	Manufacture of other plastic products	17	3	3	6	7	2	1	39
C2391	Production of abrasive products								0
C2399	Manufacture of other non-metallic mineral products n. e. c. <sup>7</sup>	4	1	1	2		1		9
C2410	Manufacture of basic iron and steel and of ferro-alloys								0
C2420	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	2							2
C2431	Cold drawing of bars								0
C2432	Cold rolling of narrow strip								0
C2433	Cold forming or folding	5			1	2			8
C2434	Cold drawing of wire				1				1
C2451	Casting of iron	2		2		1			5
C2452	Casting of steel								0
C2453	Casting of light metals								0
C2454	Casting of other non-ferrous metals								0
C2511	Manufacture of metal structures and parts of structures	63	20	26	18	29	3		159
C2512	Manufacture of doors and windows of metal	31	9	18	4	5	1		68
C2521	Manufacture of central heating radiators and boilers	2							2
C2529	Manufacture of other tanks, reservoirs and containers of metal	2			1	1	1		5
C2530	Manufacture of steam generators, except central heating hot water boilers								0
C2540	Manufacture of weapons and ammunition	1	1						2
C2550	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	12	2		1	2	1		18
C2561	Treatment and coating of metals	5	4	5	3	3			20
C2562	Machining	4	1	3	3	2		1	14
C2571	Manufacture of cutlery	4		1					5
C2572	Manufacture of locks and hinges	1	1			1	1		4
C2573	Manufacture of tools	1				1			2
C2591	Manufacture of steel drums and similar containers								0
C2592	Manufacture of light metal packaging	1			2	2			5
C2593	Manufacture of wire products, chain and springs	3	2	3	3	5	1		17
C2594	Manufacture of fasteners and screw machine products	2		2	1				5
C2599	Manufacture of other fabricated metal products n. e. c.	24	8	23	10	20	2		87
C2611	Manufacture of electronic components	4			1				5
C2612	Manufacture of loaded electronic boards								0
C2620	Manufacture of computers and peripheral equipment	3				2			5
C2630	Manufacture of communication equipment	2			1				3
C2640	Manufacture of consumer electronics	1			2	1			4
C2651	Manufacture of instruments and appliances for measuring, testing and navigation	2	1	1		4	4	2	14
C2652	Manufacture of watches and clocks								0
C2660	Manufacture of irradiation, electromedical and electrotherapeutic equipment								0

<sup>7</sup> N. e. c. = Not elsewhere classified





Code	Description	1 empl.	2 empl.	3-5 empl.	6-9 empl.	10-49 empl.	50-149 empl.	150+ empl.	Grand Total
C3250	Manufacture of medical and dental instruments and supplies	8	3	3	1		1	1	17
C3311	Repair of fabricated metal products	3	2	3	2	6			16
C3312	Repair of machinery	46	13	34	15	13	2	1	124
C3313	Repair of electronic and optical equipment	9	6	8	2	2			27
C3314	Repair of electrical equipment	16	7	11	6	4	2		46
C3315	Repair and maintenance of ships and boats	1							1
C3316	Repair and maintenance of aircraft and spacecraft	5	3		1		1		10
C3317	Repair and maintenance of other transport equipment								0
C3319	Repair of other equipment	4							4
C3320	Installation of industrial machinery and equipment	5	3	5	2	7		1	23
M7112	Engineering activities and related technical consultancy	135	55	67	24	19	6		306
M7120	Technical testing and analysis	64	24	48	19	27	6	1	189
M7211	Research and experimental development on biotechnology	8		2	1	2		1	14
M7219	Other research and experimental development on natural sciences and engineering	27	2	4		3	3		39

Appendix 2: Value of production, Republic of Moldova, thousand MDL

Code	Name	2015	2016	2017
22.1	Manufacture of rubber products	9,888	10,912	10,106
22.2	Manufacture of plastics products	1,619,872	1,752,537	2,091,661
23.9	Manufacture of abrasive products and non-metallic mineral products n.e.c.	329,157	196,907	257,471
24.1	Manufacture of basic iron and steel and of ferro-alloys	-	-	-
24.2	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	-	-	-
24.3	Manufacture of other products of first processing of steel	70,714	65,432	73,984
24.5	Casting of metals	12,981	11,068	9,313
25.1	Manufacture of structural metal products	473,793	419,957	478,186
25.2	Manufacture of tanks, reservoirs and containers of metal	101,090	132,443	101,336
25.3	Manufacture of steam generators, except central heating hot water boilers	-	-	-
25.4	Manufacture of weapons and ammunition	C	C	C
25.5	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	-	-	-
25.6	Treatment and coating of metals; machining	74,603	77,716	85,483
25.7	Manufacture of cutlery, tools and general hardware	25,493	27,402	24,259
25.9	Manufacture of other fabricated metal products	624,564	674,098	673,368
26.1	Manufacture of electronic components and boards	-	-	-
26.2	Manufacture of computers and peripheral equipment	41,357	42,287	40,141
26.3	Manufacture of communication equipment	-	C	C
26.4	Manufacture of consumer electronics	17,913	8,597	6,745
26.5	Manufacture of instruments and appliances for measuring, testing and navigation; watches and clocks	492,713	433,901	385,757
26.6	Manufacture of irradiation, electromedical and electrotherapeutic equipment	-	-	-
26.7	Manufacture of optical instruments and photographic equipment	C	C	C
26.8	Manufacture of magnetic and optical media	-	-	-
27.1	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	67,309	68,718	92,684
27.2	Manufacture of batteries and accumulators	-	-	-
27.3	Manufacture of wiring and wiring devices	1,595,149	1,060,694	1,549,742
27.4	Manufacture of electric lighting equipment	11,781	17,687	34,652
27.5	Manufacture of domestic appliances	1,879	1,942	959
27.9	Manufacture of other electrical equipment	C	C	C
28.1	Manufacture of general — purpose machinery	302,764	263,650	166,141
28.2	Manufacture of other general-purpose machinery	138,905	169,089	249,015
28.3	Manufacture of agricultural and forestry machinery	87,899	131,369	167,021
28.4	Manufacture of metal forming machinery and machine tools	3,227	4,253	3,337
28.9	Manufacture of other special-purpose machinery	40,935	38,275	36,202
29.1	Manufacture of motor vehicles	-	-	-
29.2	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	-	C	C
29.3	Manufacture of parts and accessories for motor vehicles	129,994	739,117	1,314,583
30.1	Building of ships and boats	-	-	-
30.2	Manufacture of railway locomotives and rolling stock	-	-	-
30.3	Manufacture of air and spacecraft and related machinery	-	-	-
30.4	Manufacture of military fighting vehicles	-	-	-
30.9	Manufacture of transport equipment n.e.c.	10,669	13,004	C
32.5	Manufacture of medical and dental instruments and supplies	31,687	38,779	37,490
33.1	Repair of fabricated metal products, machinery and equipment	458,398	446,407	488,479
33.2	Installation of industrial machinery and equipment	130,719	88,978	120,117

Appendix 3: Export<sup>8</sup> amount on the level of four-digit code, 2016-2017<sup>9</sup>

Year	Commodity	Commodity Code	Trade Value (\$)
2016	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8 544	126,389,173
2016	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9 028	16,475,143
2016	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8 413	10,834,458
2016	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3 923	9,452,523
2016	Copper; waste and scrap	7 404	6,237,916
2016	Navigational instruments and appliances; direction finding compasses	9 014	2,893,627
2016	Aluminium; waste and scrap	7 602	2,832,098
2016	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8 309	2,425,714
2016	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8 703	2,341,564
2016	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8 548	2,161,863
2016	Measuring or checking instruments, appliances and machines, n.e.c. or included in this chapter; profile projectors	9 031	2,149,233
2016	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8 517	2,002,924
2016	Electric transformers, static converters (e.g. rectifiers) and inductors	8 504	1,981,926
2016	Machinery, plant (not domestic), or laboratory equipment; electrically heated or not, (excluding items in 85.14) for the treatment of materials by a process involving change of temperature; including instantaneous or non electric storage water heaters	8 419	1,793,381
2016	Machine-tools; parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, and tool holders for any type of tool for working in the hand	8 466	1,667,247
2016	Iron or non-alloy steel, angles, shapes and sections	7 216	1,578,560
2016	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	8 432	1,468,487
2016	Mechanical appliances for projecting, dispersing or spraying liquids or powders; fire extinguishers, spray guns, steam, sand blasting machines	8 424	1,264,650
2016	Reservoirs, tanks, vats and similar containers; for any material (excluding compressed or liquefied gas), of iron or steel, capacity exceeding 300l, whether or not lined or heat insulated	7 309	1,220,104
2016	Articles of plastics and articles of other materials of heading no. 3901 to 3914, n.e.c. in chapter 39	3 926	1,116,246
2016	Tools, interchangeable; for hand tools, whether or not power-operated, or for machine tools (pressing, stamping, punching, drilling etc), including dies for drawing or extruding metal, and rock drilling or earth boring tools	8 207	1,057,994
2016	Machines and appliances for testing the hardness, strength, compressibility, elasticity of other mechanical properties of materials (e.g. metals, wood, textiles, paper, plastics)	9 024	957,310
2016	Dish washing machines; machinery for cleaning, drying, filling, closing, sealing, capsuling or labelling bottles, cans, boxes, bags, etc, machinery for aerating beverages	8 422	912,838
2016	Tractors; (other than tractors of heading no 8709)	8 701	794,972
2016	New pneumatic tyres, of rubber	4 011	705,489
2016	Machinery and mechanical appliances; having individual functions, n.e.c. in this chapter	8 479	704,414
2016	Turbo-jets, turbo-propellers and other gas turbines	8 411	678,924
2016	Structures of iron or steel and parts thereof; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures	7 308	674,710
2016	Orthopaedic appliances; including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other which are worn, carried or implanted in the body to compensate for a defect or disability	9 021	554,182

<sup>8</sup> Domestic export is calculated as a difference between the amount of goods exported (per commodity code) and the amount of goods re-exported per the same commodity code.

Note: The goods for which the re-export was equal to export were not included in the table. There were goods for which the difference result was negative (at the quantity level). This fact might be explained by the re-export of the previous year stocks. The same explanation can be used for interpreting some export results that seem unexpected – the good export might in fact represent re-export of past year stocks and not necessarily mean that the particular commodity was produced in Moldova.

The largest value of re-export can be noticed in case of Romania (a sum of 136,9 million USD for 2017), Russian Federation (a sum of 27,6 million USD), Germany (17,8 million USD), Bulgaria (16,2 million USD), Switzerland (8,7 million USD), Italy (7,9 million USD), Ukraine (7,7 million USD).

<sup>9</sup> **Dark grey** area represents top 10 positions, **light grey** represents top 20 positions per each year.

2016	Plastics; builders' wares n.e.c. or included	3 925	531,358
2016	Titanium; articles thereof, including waste and scrap	8 108	504,701
2016	Engines and motors; n.e.c. (e.g. reaction engines, hydraulic power engines, pneumatic power engines)	8 412	483,763
2016	Tableware, kitchenware, other household articles and hygienic or toilet articles, of plastics	3 924	451,960
2016	Machinery; for working rubber or plastics or for the manufacture of products from these materials, n.e.c. in this chapter	8 477	400,715
2016	Ferrous waste and scrap; remelting scrap ingots of iron or steel	7 204	400,112
2016	Machinery n.e.c. in this chapter, for the industrial preparation or manufacture of food or drink; other than machinery for extraction or preparation of animal or fixed vegetable fats or oils	8 438	378,938
2016	Machinery (not of heading no. 8450) for washing, cleaning, wringing, drying, ironing, pressing, bleaching, dyeing, dressing, finishing, coating or impregnating textile yarn, fabrics or made up articles	8 451	370,614
2016	Harvesting and threshing machinery, straw and fodder balers, grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading no 8437	8 433	363,291
2016	Tube or pipe fittings (e.g. couplings, elbows, sleeves), of iron or steel	7 307	352,587
2016	Printing machinery; used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof	8 443	341,040
2016	Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders	8 525	336,985
2016	Electrical machines and apparatus; having individual functions, not specified or included elsewhere in this chapter	8 543	335,393
2016	Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7 314	326,869
2016	Trailers and semi-trailers; other vehicles, not mechanically propelled; parts thereof	8 716	311,212
2016	Screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter-pins, washers (including spring washers) and similar articles, of iron or steel	7 318	296,045
2016	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases	8 421	279,158
2016	Machine-tools; n.e.c. for working metal, sintered metal carbides or cermets without removing material	8 463	256,298
2016	Lifting, handling, loading or unloading machinery; n.e.c. in heading no. 8425, 8426 or 8427 (e.g. lifts, escalators, conveyors, teleferics)	8 428	243,807
2016	Aircraft; parts of heading no. 8801 or 8802	8 803	228,128
2016	Plastics; plates, sheets, film, foil and strip (not self-adhesive); non-cellular and not reinforced, laminated, supported or similarly combined with other materials, n.e.c. in chapter 39	3 920	212,812
2016	Moulding boxes for metal foundry, moulding patterns, moulds for metals (excluding ingot moulds), metal carbides, glass, mineral materials, rubber or plastics	8 480	211,494
2016	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8 536	207,714
2016	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading no. 8415	8 418	199,287
2016	Vehicles; parts and accessories of heading no. 8711 to 8713	8 714	187,560
2016	Machinery; parts and accessories (not covers, carrying cases and the like) suitable for use solely or principally with machines of heading no. 8469 to 8472	8 473	180,624
2016	Aircraft n.e.c. in heading no. 8801 (e.g. helicopters, aeroplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles	8 802	175,358
2016	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8 471	175,144
2016	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8 708	170,646
2016	Copper; stranded wire, cables, plaited bands and the like, not electrically insulated	7 413	168,165
2016	Presses, crushers and similar machinery; used in the manufacture of wine, cider, fruit juices or similar beverages	8 435	167,063
2016	Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)	8 408	154,515
2016	Tools; for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor	8 467	154,090
2016	Ball or roller bearings	8 482	153,148
2016	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves	8 481	147,467
2016	Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight testing instruments	9 018	146,751
2016	Vehicles; for the transport of goods	8 704	142,520
2016	Electrical resistors (including rheostats and potentiometers), excluding heating resistors	8 533	139,332

2016	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines	8 453	137,909
2016	Machinery; for preparing or making up tobacco, n.e.c. in this chapter	8 478	135,187
2016	Boards, panels, consoles, desks, cabinets, bases with apparatus of heading no. 8535, 8536 for electricity control and distribution, (other than switching apparatus of heading no. 8517)	8 537	129,282
2016	Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	8 608	125,968
2016	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores in solid form, shaping, moulding machinery for solid mineral fuels	8 474	124,868
2016	Electrical apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8535, 8536 and 8537	8 538	124,787
2016	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan whether or not fitted with filters	8 414	124,639
2016	Tanks, casks, drums, cans, boxes and similar containers, for any material (excluding compressed or liquefied gas), of iron or steel, capacity not exceeding 300l, whether or not lined or heat-insulated	7 310	121,619
2016	Waste, parings and scrap, of plastics	3 915	113,549
2016	Machines; for making up paper pulp, paper or paperboard, including cutting machines of all kinds	8 441	108,394
2016	Polymers of vinyl chloride or of other halogenated olefins, in primary forms	3 904	107,419
2016	Moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals, or ores; pile drivers and extractors; snow ploughs and snow blowers	8 430	103,258
2016	Electric water, space, soil heaters; electro-thermic hair-dressing apparatus; hand dryers, irons; electro-thermic appliances for domestic purposes; electro heating resistors, not of heading no. 8545	8 516	102,408
2016	Diodes, transistors, similar semiconductor devices; including photovoltaic cells assembled or not in modules, panels, light emitting mounted piezo-electric crystals	8 541	96,777
2016	Machine-tools; for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, sintered metal carbides or cermets by means of grinding stones, abrasives or polishing products	8 460	96,354
2016	Tubes, pipes and hoses and fittings thereof (for example, joints, elbows, flanges), of plastics	3 917	90,705
2016	Sewing machines; other than book-sewing machines of heading no. 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles	8 452	81,794
2016	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls	3 919	79,515
2016	Iron or steel (excluding cast iron); tubes and pipes (e.g. welded, riveted or similarly closed), having circular cross-sections, external diameter of which exceeds 406.4mm, not seamless	7 305	79,253
2016	Knives and cutting blades, for machines or for mechanical appliances	8 208	78,177
2016	Polymers of ethylene, in primary forms	3 901	77,553
2016	Converters, ladles, ingot moulds and casting machines; of a kind used metallurgy or in metal foundries	8 454	77,333
2016	Machinery parts; used solely or principally with the machinery of heading no. 8425 to 8430	8 431	75,710
2016	Agricultural, horticultural, forestry, poultry-keeping, bee-keeping machinery; including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders	8 436	75,143
2016	Transmission shafts (including cam and crank) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers; flywheels and pulleys; clutches and shaft couplings	8 483	71,879
2016	Plastic plates, sheets, film, foil and strip n.e.c. in chapter 39	3 921	71,578
2016	Instruments and apparatus; for physical or chemical analysis (e.g. polarimeters, spectrometers), for measuring or checking viscosity, porosity, etc, for measuring quantities of heat, sound or light	9 027	70,718
2016	Machines for cleaning, sorting, grading seed, grain, dried leguminous vegetables; machinery used in the milling industry for the working of cereals or dried leguminous vegetables, not farm type machinery	8 437	68,075
2016	Machine-tools; (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard plastics or rubber or similar hard materials	8 465	67,187
2016	Bulldozers, graders, levellers, scrapers, angledozers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers, self-propelled	8 429	57,510
2016	Polymers of propylene or of other olefins, in primary forms	3 902	57,416
2016	Fork-lift and other works trucks; fitted with lifting or handling equipment	8 427	55,479
2016	X-ray, alpha, beta, gamma radiation apparatus; x-ray tubes, x-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like	9 022	53,183
2016	Articles of vulcanised rubber other than hard rubber, n.e.c. in chapter 40	4 016	52,597
2016	Discs, tapes, solid-state non-volatile storage devices, smart cards and other media for the recording of sound or of other phenomena, whether or not recorded, including matrices and masters for the production of discs, excluding products of Chapter 37	8 523	50,159

2016	Iron or steel (excluding cast iron); tubes, pipes and hollow profiles (not seamless), n.e.c. in chapter 73	7 306	47,653
2016	Base metal mountings, fittings and similar articles for furniture, doors, staircases, windows, trunks, chests etc, castors with mountings of base metal, automatic door closers of base metal	8 302	46,734
2016	Tubes, pipes and hoses, of vulcanised rubber (other than hard rubber), with or without their fittings (e.g. joints, elbows, flanges)	4 009	45,761
2016	Electric (electrically heated gas) soldering, brazing, welding machines and apparatus, capable or not of cutting, electric machines and apparatus for hot spraying of metals or sintered carbides	8 515	43,656
2016	Tools, hand; files, rasps, pliers (including cutting pliers), pincers, tweezers, metal cutting shears, pipe cutters, bolt croppers, perforating punches and similar	8 203	40,044
2016	Derricks, cranes, including cable cranes, mobile lifting frames, straddle carriers and works trucks fitted with a crane	8 426	38,447
2016	Air conditioning machines; comprising a motor driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated	8 415	38,133
2016	Iron or non-alloy steel; flat-rolled products, width 600mm or more, clad, plated or coated	7 210	37,043
2016	Containers for compressed or liquefied gas, of iron or steel	7 311	36,994
2016	Iron or non-alloy steel; bars and rods, not further worked than forged, hot-rolled, hot drawn or hot-extruded, but including those twisted after rolling	7 214	36,568
2016	Electric accumulators, including separators therefor; whether or not rectangular (including square)	8 507	34,773
2016	Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus	8 528	33,549
2016	Revolution counter, production counters, taximeters, mileometers, pedometers and the like, speed indicators and tachometers, other than those of heading no. 9015, stroboscopes	9 029	32,685
2016	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, not laser diodes; other optical appliances and instruments n.e.c. in this chapter	9 013	32,545
2016	Electric motors and generators (excluding generating sets)	8 501	32,046
2016	Acrylic polymers in primary forms	3 906	30,856
2016	Boilers; steam or other vapour generating (other than central heating hot water boilers, capable also of producing low pressure steam), super heated water boilers	8 402	28,336
2016	Copper; articles thereof n.e.c. in chapter 74	7 419	27,991
2016	Aluminium; bars, rods and profiles	7 604	27,805
2016	Instruments, apparatus for measuring or checking the flow, level, pressure of liquids, gases (e.g. flow meters, heat meters etc), not instruments and apparatus of heading no. 9014, 9015, 9028 or 9032	9 026	25,923
2016	Binoculars, monoculars, other optical telescopes, mountings therefore; other astronomical instruments, mountings therefore, but not including instruments for radio-astronomy	9 005	25,896
2016	Central heating boilers; excluding those of heading no. 8402	8 403	24,533
2016	Bells, gongs and the like; non-electric, statuettes, other ornaments, photograph, picture, similar frames, mirrors, of base metal	8 306	24,327
2016	Electronic integrated circuits	8 542	23,802
2016	Bicycles and other cycles; including delivery tricycles, not motorised	8 712	23,776
2016	Signalling apparatus; electric sound or visual (e.g. bells, sirens, indicator panels, burglar or fire alarms), excluding those of heading no. 8512 or 8530	8 531	23,734
2016	Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber	4 012	23,119
2016	Ignition or starting equipment; used for spark-ignition or compression-ignition internal combustion engines; generators and cut outs used in conjunction with such engines	8 511	22,951
2016	Machine-tools; (including presses) for working metal by forging, hammering or die-stamping, for bending, folding, straightening, flattening, shearing or punching metal	8 462	22,476
2016	Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting	8 447	20,092
2016	Electro-magnets; permanent magnets, intended permanent magnets; electro-magnetic, permanent magnet chucks, clamps, similar; electromagnetic couplings, clutches, brakes; electro-magnetic lifting heads	8 505	19,743
2016	Monofilament of which any cross-sectional dimension exceeds 1mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics	3 916	19,475
2016	Zinc; waste and scrap	7 902	19,436
2016	Parts suitable for use solely or principally with the engines of heading no. 8407 or 8408	8 409	19,203
2016	Tools, hand; (including glaziers' diamonds) n.e.c.; blow lamps; vices, clamps etc, other than accessories for and parts of, machine tools; anvils; portable forges; hand or pedal operated grinding wheels with frameworks	8 205	19,129
2016	Mechano-therapy, massage appliances; psychological aptitude testing apparatus; ozone, oxygen, aerosol therapy, artificial respiration or other therapeutic respiration apparatus	9 019	19,036
2016	Springs and leaves for springs, of iron or steel	7 320	18,999
2016	Ion-exchangers; based on polymers of heading no. 3901 to 3913, in primary forms	3 914	18,740

2016	Wrist-watches, pocket-watches, stop-watches and other watches, other than those of heading no. 9101	9 102	18,618
2016	Generators for producer or water gas with or without their purifiers acetylene gas generators and similar water process gas generators, with or without their purifiers	8 405	16,933
2016	Machines; calendaring or other rolling machines, for other than metal or glass and cylinders therefor	8 420	16,776
2016	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits; for a voltage exceeding 1000 volts	8 535	16,320
2016	Stoves, ranges, grates, cookers (those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances and parts, of iron or steel	7 321	16,115
2016	Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical grates, mechanical ash dischargers and similar appliances	8 416	15,153
2016	Electric generating sets and rotary converters	8 502	14,963
2016	Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers in primary forms	3 905	13,987
2016	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7 312	13,415
2016	Optical fibres and optical fibre bundles; optical fibre cables not of heading no. 8544; sheets, plates of polarising material; lenses, prisms, mirrors, of any material; unmounted; not non optical glass	9 001	13,283
2016	Chain and parts thereof, of iron or steel	7 315	12,364
2016	Book-binding machinery; including book-sewing machines	8 440	11,218
2016	Radar apparatus, radio navigational aid apparatus and radio remote control apparatus	8 526	10,986
2016	Wires, rods, tubes, plates, electrodes of base metal or metal carbides; of a kind used for soldering, brazing, welding; wires and rods for metal spraying	8 311	10,846
2016	Regulating or controlling instruments and apparatus; automatic type	9 032	10,247
2016	Microphones and their stands; loudspeakers, mounted or not in their enclosures; headphones and earphones, combined or not with a microphone, and sets of a microphone and one or more loudspeakers; audio frequency and electric sound amplifiers and sets	8 518	10,201
2016	Weighing machines; excluding balances of a sensitivity of 5cg or better, including weight operated counting or checking machines and weights of all kinds	8 423	9,993
2016	Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not	9 025	9,749
2016	Lighting or visual signalling equipment (excluding articles of heading no. 8539), windscreen wipers, defrosters and demisters; electrical, of a kind used for cycles or motor vehicles	8 512	9,395
2016	Thermionic, cold cathode or photo-cathode valves and tubes (e.g. vacuum, vapour, gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray and television camera tubes)	8 540	9,327
2016	Lathes for removing metal	8 458	8,169
2016	Padlocks and locks (key, combination, electrically operated) of base metal; clasps and frames with clasps incorporating locks, of base metal, keys for any or the foregoing articles, of base metal	8 301	7,981
2016	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7 304	7,846
2016	Metal-rolling mills and rolls therefor	8 455	7,770
2016	Bodies; (including cabs) for the motor vehicles of heading no. 8701 to 8705	8 707	7,472
2016	Electro-mechanical domestic appliances; with self-contained electric motor, other than vacuum cleaners of heading 85.08.	8 509	7,442
2016	Pulley tackle and hoists other than skip hoists; winches and capstans; jacks	8 425	7,340
2016	Conveyor or transmission belts or belting, of vulcanised rubber	4 010	7,113
2016	Transmission apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8525 to 8528	8 529	6,892
2016	Instruments, apparatus for measuring, checking electrical quantities not meters of heading no. 9028; instruments, apparatus for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	9 030	6,884
2016	Anchors, grapnels and parts thereof, of iron or steel	7 316	6,718
2016	Railway or tramway locomotives or rolling stock; parts thereof	8 607	6,632
2016	Copper tubes and pipes	7 411	6,349
2016	Balances; of a sensitivity of 5cg or better, with or without weights	9 016	6,144
2016	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts or fittings for instruments or apparatus, other than such elements of glass not optically worked	9 002	5,992
2016	Zinc; articles n.e.c. in chapter 79	7 907	5,502
2016	Sanitary ware; baths, shower-baths, sinks, wash-basins, bidets, lavatory pans, seats and covers, flushing cisterns and sanitary ware, of plastics	3 922	5,436
2016	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), interchangeable spanner sockets, with or without handles	8 204	5,268
2016	Weaving machines (looms)	8 446	5,014

2016	Special purpose motor vehicles; not those for the transport of persons or goods (e.g. breakdown lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units etc)	8 705	4,921
2016	Copper; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7 412	4,895
2016	Clasps; frames with clasps, buckles, hooks, eyes, eyelets etc used for clothing, footwear, awnings, handbags, travel goods or other articles, tubular, bifurcated rivets, beads, spangles, of base metal	8 308	4,709
2016	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts or fittings for instruments or apparatus, other than such elements of glass not optically worked	9 002	4,685
2016	Cellulose and its chemical derivatives, n.e.c. or included, in primary forms	3 912	4,675
2016	Lamps; electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps, arc-lamps	8 539	4,605
2016	Electric motors and generators; parts suitable for use solely or principally with the machines of heading no. 8501 or 8502	8 503	4,365
2016	Sign plates, name plates, address plates and similar plates, numbers, letters and other symbols, of base metal, excluding those of heading no. 9405	8 310	4,224
2016	Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon; with or without metal, of a kind used for electrical purposes	8 545	3,939
2016	Nails, tacks, drawing pins, corrugated nails, staples (not those of heading no. 8305) and the like, of iron or steel, with heads of other material or not, but excluding articles with heads of copper	7 317	3,847
2016	Machine-tools; for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam, or plasma arc processes; water-jet cutting machines	8 456	3,608
2016	Lamps; portable, electric, designed to function by their own source of energy (e.g. dry batteries, accumulators, magnetos), excluding lighting equipment of heading no. 8512	8 513	3,433
2016	Amino-resins, phenolic resins and polyurethanes, in primary forms	3 909	3,419
2016	Textile machinery; spinning, doubling, twisting machines, textile reeling or winding machines and machines for preparing textile yarns for use on machines of heading no. 8446 and 8447	8 445	2,997
2016	Railway or tramway track constructions of iron or steel; rails, check and track rails, switch blades, crossing frogs, point rods, sleepers, fish-plates, chair wedges, sole plates, bedplates, ties and the like	7 302	2,985
2016	Tubing; flexible, with or without fittings, of base metal	8 307	2,856
2016	Drawing, marking-out, mathematical calculating instruments (drafting machines, protractors, drawing sets etc); instruments for measuring length (e.g. measuring rods, tapes, micrometers, callipers) n.e.c.	9 017	2,762
2016	Machinery, apparatus and equipment (excluding machine-tools of heading no. 8456 to 8465) for preparing or making printing components; plates, cylinders and other printing components; lithographic stones prepared for printing purposes	8 442	2,687
2016	Video recording or reproducing apparatus	8 521	2,528
2016	Yachts and other vessels; for pleasure or sports, rowing boats and canoes	8 903	2,335
2016	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals	8 484	2,307
2016	Aluminium; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7 609	2,193
2016	Sound or video recording apparatus; parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521	8 522	2,120
2016	Wire of iron or non-alloy steel	7 217	2,002
2016	Tools; hand-operated mechanical appliances, weighing 10kg or less, used in the preparation, conditioning or serving of food or drink	8 210	1,926
2016	Stationery; fittings for loose-leaf binders or files, letter clips, letter corners, paper clips, indexing tags and the like, staples in strips (for offices, upholstery, packaging), of base metal	8 305	1,875
2016	Aluminium; plates, sheets and strip, thickness exceeding 0.2mm	7 606	1,649
2016	Tools, hand; saws and blades for saws of all kinds (including slitting, slotting or toothless blades)	8 202	1,552
2016	Inner tubes, of rubber	4 013	1,546
2016	Machine-tools; (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes of heading no. 8458	8 459	1,527
2016	Works trucks, self-propelled, (not fitted with lifting or handling equipment), for factories, warehouses etc, for short distance transport of goods, tractors used on railway station platforms; parts thereof	8 709	1,484
2016	Wire of other alloy steel	7 229	1,482
2016	Cutlery; other articles, (e.g. hair clippers, butchers' or kitchen cleavers, choppers and mincing knives, paper knives), manicure or pedicure sets and instruments (including nail files)	8 214	1,378
2016	Machinery; for making pulp of fibrous cellulosic material, or for making or finishing paper or paperboard	8 439	1,110
2016	Tools, hand; spades, shovels, mattocks, picks, hoes, forks, rakes; axes, bill hooks etc; secateurs and pruners of any kind; scythes, sickles, hay knives, hedge shears, timber wedges and other tools used in agriculture, horticulture, forestry	8 201	1,098
2016	Cells and batteries; primary	8 506	970



2016	Aluminium; tubes and pipes	7 608	890
2016	Electrical capacitors; fixed, variable or adjustable (pre-set)	8 532	787
2016	Boats, floating structures, other (for e.g. rafts, tanks, coffer-dams, landing stages, buoys and beacons)	8 907	766
2016	Vacuum cleaners	8 508	741
2016	Unvulcanised rubber in other forms (e.g. rods, tubes and profile shapes) and articles (e.g. discs and rings)	4 006	727
2016	Machinery and apparatus for soldering, brazing, welding, whether or not capable of cutting, other than those of heading no. 8515; gas-operated surface tempering machines and appliances	8 468	715
2016	Safes; armoured or reinforced, strong-boxes, doors and safe deposit lockers for strong-rooms, cash or deed boxes and the like, of base metal	8 303	702
2016	Office machines; not elsewhere classified	8 472	674
2016	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms	3 907	652
2016	Floor coverings of plastics, self-adhesive or not, in rolls or tiles; wall or ceiling coverings of plastics, in rolls of a width not less than 45cm	3 918	639
2016	Machine-tools; for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass	8 464	562
2016	Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels	9 104	536
2016	Time switches; with clock, watch movement or synchronous motor	9 107	431
2016	Milking machines and dairy machinery	8 434	423
2016	Stainless steel wire	7 223	380
2016	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not and loosely twisted double wire, of a kind used for fencing, of iron or steel	7 313	365
2016	Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8 527	344
2016	Insulating fittings; for electrical machines, appliances, equipment, excluding insulators of heading no. 8546, electrical conduit tubing and joints therefore	8 547	309
2016	Instruments, apparatus and models, designed for demonstrational purposes (in education or exhibitions), unsuitable for other uses	9 023	290
2016	Aluminium wire	7 605	263
2016	Spectacles, goggles and the like; corrective, protective or other	9 004	251
2016	Articles of apparel and clothing accessories (including gloves, mittens and mitts), for all purposes, of vulcanised rubber other than hard rubber	4 015	244
2016	Knives; with cutting blades, serrated or not (including pruning knives), other than knives of heading no. 8208, and blades therefore	8 211	190
2016	Iron or non-alloy steel; flat-rolled products, width less than 600mm, clad, plated or coated	7 212	184
2016	Tools, hand; two or more of heading no. 8202 to 8205, put up in sets for retail sale	8 206	172
2016	Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2mm	7 607	140
2016	Silicones in primary forms	3 910	132
2016	Iron or non-alloy steel; bars and rods, n.e.c. in chapter 72	7 215	123
2016	Scissors; tailors' shears and similar shears, and blades therefore	8 213	96
2016	Photographic (including cinematographic) laboratory apparatus and equipment, n.e.c. in chapter 90; negatoscopes; projection screens	9 010	56
2016	Time of day recording apparatus and apparatus for measuring, recording or otherwise indicating intervals of time, with clock, watch movement or synchronous motor	9 106	54
2016	Breathing appliances and gas masks; excluding protective masks having neither mechanical parts nor replaceable filters and excluding apparatus of item no. 9019.20	9 020	53
2016	Clocks, other, n.e.c.	9 105	42
2016	Electrical insulators of any material	8 546	32
2016	Plates, sheets, strip, rods and profile shapes, of vulcanised rubber other than hard rubber	4 008	29
2016	Stainless steel in ingots or other primary forms; semi-finished products of stainless steel	7 218	27
2016	Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers	9 008	22
2016	Copper; table, kitchen or other household articles and parts thereof; pot scourers, scouring, polishing pads, gloves and the like; sanitary ware and parts thereof	7 418	20
2016	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses, rangefinders	9 015	20
2016	Machines and appliances, instruments or apparatus of chapter 90; parts and accessories n.e.c. in chapter 90	9 033	10
2017	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8 544	173,441,782
2017	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3 923	17,118,294
2017	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9 028	14,790,174
2017	Aircraft n.e.c. in heading no. 8801 (e.g. helicopters, aeroplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles	8 802	14,004,261

2017	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8 413	8,914,024
2017	Copper; waste and scrap	7 404	8,246,780
2017	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8 548	3,725,190
2017	Aluminium; waste and scrap	7 602	3,616,348
2017	Electric transformers, static converters (e.g. rectifiers) and inductors	8 504	2,943,186
2017	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8 309	2,776,673
2017	Measuring or checking instruments, appliances and machines, n.e.c. or included in this chapter; profile projectors	9 031	2,416,751
2017	Machine-tools; parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, and tool holders for any type of tool for working in the hand	8 466	2,220,070
2017	Machinery, plant (not domestic), or laboratory equipment; electrically heated or not, (excluding items in 85.14) for the treatment of materials by a process involving change of temperature; including instantaneous or non electric storage water heaters	8 419	2,084,026
2017	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8 703	1,912,009
2017	Copper; stranded wire, cables, plaited bands and the like, not electrically insulated	7 413	1,898,314
2017	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8 517	1,768,716
2017	Reservoirs, tanks, vats and similar containers; for any material (excluding compressed or liquefied gas), of iron or steel, capacity exceeding 300l, whether or not lined or heat insulated	7 309	1,758,452
2017	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	8 432	1,695,704
2017	Machines and appliances for testing the hardness, strength, compressibility, elasticity of other mechanical properties of materials (e.g. metals, wood, textiles, paper, plastics)	9 024	1,369,020
2017	Trailers and semi-trailers; other vehicles, not mechanically propelled; parts thereof	8 716	1,238,168
2017	Mechanical appliances for projecting, dispersing or spraying liquids or powders; fire extinguishers, spray guns, steam, sand blasting machines	8 424	1,236,088
2017	Ferrous waste and scrap; remelting scrap ingots of iron or steel	7 204	1,091,716
2017	Tools, interchangeable; for hand tools, whether or not power-operated, or for machine tools (pressing, stamping, punching, drilling etc), including dies for drawing or extruding metal, and rock drilling or earth boring tools	8 207	1,059,122
2017	Railway or tramway goods vans and wagons; not self-propelled	8 606	1,047,773
2017	Structures of iron or steel and parts thereof; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures	7 308	961,146
2017	Tractors; (other than tractors of heading no 8709)	8 701	960,093
2017	Regulating or controlling instruments and apparatus; automatic type	9 032	895,169
2017	Articles of plastics and articles of other materials of heading no. 3901 to 3914, n.e.c. in chapter 39	3 926	883,227
2017	Iron or non-alloy steel, angles, shapes and sections	7 216	860,740
2017	Dish washing machines; machinery for cleaning, drying, filling, closing, sealing, capsuling or labelling bottles, cans, boxes, bags, etc, machinery for aerating beverages	8 422	853,343
2017	Navigational instruments and appliances; direction finding compasses	9 014	835,767
2017	Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight testing instruments	9 018	701,756
2017	Engines and motors; n.e.c. (e.g. reaction engines, hydraulic power engines, pneumatic power engines)	8 412	599,558
2017	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms	3 907	594,959
2017	Tableware, kitchenware, other household articles and hygienic or toilet articles, of plastics	3 924	505,095
2017	Moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals, or ores; pile drivers and extractors; snow ploughs and snow blowers	8 430	494,875
2017	Harvesting and threshing machinery, straw and fodder balers, grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading no 8437	8 433	465,216
2017	Vehicles; for the transport of goods	8 704	437,834
2017	Titanium; articles thereof, including waste and scrap	8 108	429,779
2017	Orthopaedic appliances; including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other which are worn, carried or implanted in the body to compensate for a defect or disability	9 021	420,516
2017	Screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter-pins, washers (including spring washers) and similar articles, of iron or steel	7 318	393,768
2017	Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7 314	390,897

2017	Machinery n.e.c. in this chapter, for the industrial preparation or manufacture of food or drink; other than machinery for extraction or preparation of animal or fixed vegetable fats or oils	8 438	373,004
2017	Machinery; for working rubber or plastics or for the manufacture of products from these materials, n.e.c. in this chapter	8 477	354,694
2017	Tube or pipe fittings (e.g. couplings, elbows, sleeves), of iron or steel	7 307	340,591
2017	Turbo-jets, turbo-propellers and other gas turbines	8 411	335,434
2017	Electrical machines and apparatus; having individual functions, not specified or included elsewhere in this chapter	8 543	321,911
2017	Printing machinery; used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof	8 443	307,271
2017	Iron or steel (excluding cast iron); tubes and pipes (e.g. welded, riveted or similarly closed), having circular cross-sections, external diameter of which exceeds 406.4mm, not seamless	7 305	287,613
2017	Agricultural, horticultural, forestry, poultry-keeping, bee-keeping machinery; including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders	8 436	282,552
2017	Machinery (not of heading no. 8450) for washing, cleaning, wringing, drying, ironing, pressing, bleaching, dyeing, dressing, finishing, coating or impregnating textile yarn, fabrics or made up articles	8 451	270,952
2017	Plastics; builders' wares n.e.c. or included	3 925	251,020
2017	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores in solid form, shaping, moulding machinery for solid mineral fuels	8 474	248,648
2017	Boards, panels, consoles, desks, cabinets, bases with apparatus of heading no. 8535, 8536 for electricity control and distribution, (other than switching apparatus of heading no. 8517)	8 537	243,556
2017	Bulldozers, graders, levellers, scrapers, angledozers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers, self-propelled	8 429	238,356
2017	Plastic plates, sheets, film, foil and strip n.e.c. in chapter 39	3 921	228,187
2017	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading no. 8415	8 418	225,167
2017	Transmission apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8525 to 8528	8 529	216,825
2017	Moulding boxes for metal foundry, moulding patterns, moulds for metals (excluding ingot moulds), metal carbides, glass, mineral materials, rubber or plastics	8 480	216,052
2017	Nickel; tubes, pipes and tube or pipe fittings (e.g. couplings, elbows, sleeves)	7 507	212,086
2017	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8 471	208,452
2017	Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders	8 525	206,555
2017	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8 708	203,418
2017	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases	8 421	202,945
2017	Electrical apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8535, 8536 and 8537	8 538	199,796
2017	Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	8 608	193,164
2017	Derricks, cranes, including cable cranes, mobile lifting frames, straddle carriers and works trucks fitted with a crane	8 426	184,905
2017	Machines; for making up paper pulp, paper or paperboard, including cutting machines of all kinds	8 441	177,037
2017	Lifting, handling, loading or unloading machinery; n.e.c. in heading no. 8425, 8426 or 8427 (e.g. lifts, escalators, conveyors, teleferics)	8 428	164,821
2017	Tanks, casks, drums, cans, boxes and similar containers, for any material (excluding compressed or liquefied gas), of iron or steel, capacity not exceeding 300l, whether or not lined or heat-insulated	7 310	164,691
2017	Waste, parings and scrap, of plastics	3 915	163,351
2017	Machinery parts; not containing electrical connectors, insulators, coils, contacts or other electrical features, n.e.c. in this chapter	8 487	159,130
2017	Machine-tools; (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard plastics or rubber or similar hard materials	8 465	152,394
2017	Base metal mountings, fittings and similar articles for furniture, doors, staircases, windows, trunks, chests etc, castors with mountings of base metal, automatic door closers of base metal	8 302	151,013
2017	Machinery; for preparing or making up tobacco, n.e.c. in this chapter	8 478	143,761
2017	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines	8 453	136,604
2017	Machinery and mechanical appliances; having individual functions, n.e.c. in this chapter	8 479	128,810

2017	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8 536	128,514
2017	Special purpose motor vehicles; not those for the transport of persons or goods (e.g. breakdown lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units etc)	8 705	125,645
2017	Aircraft; parts of heading no. 8801 or 8802	8 803	122,997
2017	Knives and cutting blades, for machines or for mechanical appliances	8 208	119,870
2017	Presses, crushers and similar machinery; used in the manufacture of wine, cider, fruit juices or similar beverages	8 435	116,822
2017	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan whether or not fitted with filters	8 414	113,079
2017	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves	8 481	113,067
2017	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7 304	111,155
2017	Machinery; parts and accessories (not covers, carrying cases and the like) suitable for use solely or principally with machines of heading no. 8469 to 8472	8 473	107,269
2017	Ball or roller bearings	8 482	104,221
2017	Tools, hand; (including glaziers' diamonds) n.e.c.; blow lamps; vices, clamps etc, other than accessories for and parts of, machine tools; anvils; portable forges; hand or pedal operated grinding wheels with frameworks	8 205	100,440
2017	Polymers of ethylene, in primary forms	3 901	99,387
2017	New pneumatic tyres, of rubber	4 011	98,908
2017	Tools; for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor	8 467	97,403
2017	Iron or non-alloy steel; flat-rolled products, width 600mm or more, clad, plated or coated	7 210	95,522
2017	Bicycles and other cycles; including delivery tricycles, not motorised	8 712	95,316
2017	Electrical resistors (including rheostats and potentiometers), excluding heating resistors	8 533	93,513
2017	Transmission shafts (including cam and crank) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers; flywheels and pulleys; clutches and shaft couplings	8 483	90,690
2017	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls	3 919	80,992
2017	Nickel; articles thereof n.e.c. in chapter 75	7 508	78,207
2017	Springs and leaves for springs, of iron or steel	7 320	77,167
2017	Electric accumulators, including separators therefor; whether or not rectangular (including square)	8 507	75,949
2017	Revolution counter, production counters, taximeters, mileometers, pedometers and the like, speed indicators and tachometers, other than those of heading no. 9015, stroboscopes	9 029	72,428
2017	X-ray, alpha, beta, gamma radiation apparatus; x-ray tubes, x-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like	9 022	72,298
2017	Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus	8 528	65,407
2017	Iron or steel (excluding cast iron); tubes, pipes and hollow profiles (not seamless), n.e.c. in chapter 73	7 306	62,986
2017	Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical grates, mechanical ash dischargers and similar appliances	8 416	61,032
2017	Machines for cleaning, sorting, grading seed, grain, dried leguminous vegetables; machinery used in the milling industry for the working of cereals or dried leguminous vegetables, not farm type machinery	8 437	60,073
2017	Articles of vulcanised rubber other than hard rubber, n.e.c. in chapter 40	4 016	59,680
2017	Electric (electrically heated gas) soldering, brazing, welding machines and apparatus, capable or not of cutting, electric machines and apparatus for hot spraying of metals or sintered carbides	8 515	54,862
2017	Ignition or starting equipment; used for spark-ignition or compression-ignition internal combustion engines; generators and cut outs used in conjunction with such engines	8 511	54,450
2017	Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss	8 514	53,593
2017	Tubes, pipes and hoses and fittings thereof (for example, joints, elbows, flanges), of plastics	3 917	53,574
2017	Monofilament of which any cross-sectional dimension exceeds 1mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics	3 916	52,368
2017	Plastics; plates, sheets, film, foil and strip (not self-adhesive); non-cellular and not reinforced, laminated, supported or similarly combined with other materials, n.e.c. in chapter 39	3 920	46,995
2017	Aluminium; bars, rods and profiles	7 604	46,219
2017	Discs, tapes, solid-state non-volatile storage devices, smart cards and other media for the recording of sound or of other phenomena, whether or not recorded, including matrices and masters for the production of discs, excluding products of Chapter 37	8 523	41,674

2017	Machinery parts; used solely or principally with the machinery of heading no. 8425 to 8430	8 431	41,145
2017	Electric generating sets and rotary converters	8 502	37,952
2017	Polymers of propylene or of other olefins, in primary forms	3 902	37,404
2017	Clasps; frames with clasps, buckles, hooks, eyes, eyelets etc used for clothing, footwear, awnings, handbags, travel goods or other articles, tubular, bifurcated rivets, beads, spangles, of base metal	8 308	34,517
2017	Wires, rods, tubes, plates, electrodes of base metal or metal carbides; of a kind used for soldering, brazing, welding; wires and rods for metal spraying	8 311	33,469
2017	Instruments and apparatus; for physical or chemical analysis (e.g. polarimeters, spectrometers), for measuring or checking viscosity, porosity, etc, for measuring quantities of heat, sound or light	9 027	32,696
2017	Electric water, space, soil heaters; electro-thermic hair-dressing apparatus; hand dryers, irons; electro-thermic appliances for domestic purposes; electro heating resistors, not of heading no. 8545	8 516	32,274
2017	Parts suitable for use solely or principally with the engines of heading no. 8407 or 8408	8 409	32,107
2017	Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)	8 408	32,027
2017	Sewing machines; other than book-sewing machines of heading no. 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles	8 452	32,018
2017	Machine-tools; (including presses) for working metal by forging, hammering or die-stamping, for bending, folding, straightening, flattening, shearing or punching metal	8 462	31,003
2017	Vehicles; parts and accessories of heading no. 8711 to 8713	8 714	30,310
2017	Stoves, ranges, grates, cookers (those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances and parts, of iron or steel	7 321	29,736
2017	Electric motors and generators (excluding generating sets)	8 501	29,032
2017	Iron or non-alloy steel; bars and rods, not further worked than forged, hot-rolled, hot drawn or hot-extruded, but including those twisted after rolling	7 214	28,270
2017	Instruments, apparatus for measuring, checking electrical quantities not meters of heading no. 9028; instruments, apparatus for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	9 030	27,426
2017	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, not laser diodes; other optical appliances and instruments n.e.c. in this chapter	9 013	26,789
2017	Central heating boilers; excluding those of heading no. 8402	8 403	26,763
2017	Zinc; plates, sheets, strip and foil	7 905	26,710
2017	Fork-lift and other works trucks; fitted with lifting or handling equipment	8 427	26,118
2017	Weighing machines; excluding balances of a sensitivity of 5cg or better, including weight operated counting or checking machines and weights of all kinds	8 423	26,011
2017	Copper; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7 412	24,236
2017	Optical fibres and optical fibre bundles; optical fibre cables not of heading no. 8544; sheets, plates of polarising material; lenses, prisms, mirrors, of any material; unmounted; not non optical glass	9 001	23,430
2017	Electronic integrated circuits	8 542	22,734
2017	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7 312	22,301
2017	Railway or tramway locomotives or rolling stock; parts thereof	8 607	21,988
2017	Polymers of vinyl chloride or of other halogenated olefins, in primary forms	3 904	19,744
2017	Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers in primary forms	3 905	16,316
2017	Instruments, apparatus for measuring or checking the flow, level, pressure of liquids, gases (e.g. flow meters, heat meters etc), not instruments and apparatus of heading no. 9014, 9015, 9028 or 9032	9 026	15,682
2017	Stationery; fittings for loose-leaf binders or files, letter clips, letter corners, paper clips, indexing tags and the like, staples in strips (for offices, upholstery, packaging), of base metal	8 305	15,372
2017	Sanitary ware; baths, shower-baths, sinks, wash-basins, bidets, lavatory pans, seats and covers, flushing cisterns and sanitary ware, of plastics	3 922	14,791
2017	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts or fittings for instruments or apparatus, other than such elements of glass not optically worked	9 002	14,620
2017	Radar apparatus, radio navigational aid apparatus and radio remote control apparatus	8 526	13,891
2017	Padlocks and locks (key, combination, electrically operated) of base metal; clasps and frames with clasps incorporating locks, of base metal, keys for any or the foregoing articles, of base metal	8 301	13,600
2017	Bells, gongs and the like; non-electric, statuettes, other ornaments, photograph, picture, similar frames, mirrors, of base metal	8 306	13,138
2017	Boilers; steam or other vapour generating (other than central heating hot water boilers, capable also of producing low pressure steam), super heated water boilers	8 402	13,053
2017	Tools, hand; files, rasps, pliers (including cutting pliers), pincers, tweezers, metal cutting shears, pipe cutters, bolt croppers, perforating punches and similar	8 203	12,440
2017	Zinc; dust, powders and flakes	7 903	12,353

2017	Electro-mechanical domestic appliances; with self-contained electric motor, other than vacuum cleaners of heading 85.08.	8 509	12,321
2017	Microscopes, compound optical; including those for photomicrography, cinephotomicrography or microprojection	9 011	10,868
2017	Instruments, apparatus and models, designed for demonstrational purposes (in education or exhibitions), unsuitable for other uses	9 023	10,526
2017	Lathes for removing metal	8 458	10,430
2017	Machine-tools; n.e.c. for working metal, sintered metal carbides or cermets without removing material	8 463	10,424
2017	Containers for compressed or liquefied gas, of iron or steel	7 311	10,086
2017	Electro-magnets; permanent magnets, intended permanent magnets; electro-magnetic, permanent magnet chucks, clamps, similar; electromagnetic couplings, clutches, brakes; electro-magnetic lifting heads	8 505	9,789
2017	Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not	9 025	9,434
2017	Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar, incorporating a calculating device; cash registers	8 470	9,097
2017	Balances; of a sensitivity of 5cg or better, with or without weights	9 016	8,528
2017	Diodes, transistors, similar semiconductor devices; including photovoltaic cells assembled or not in modules, panels, light emitting mounted piezo-electric crystals	8 541	8,378
2017	Machine-tools; for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, sintered metal carbides or cermets by means of grinding stones, abrasives or polishing products	8 460	8,207
2017	Microphones and their stands; loudspeakers, mounted or not in their enclosures; headphones and earphones, combined or not with a microphone, and sets of a microphone and one or more loudspeakers; audio frequency and electric sound amplifiers and sets	8 518	7,251
2017	Pulley tackle and hoists other than skip hoists; winches and capstans; jacks	8 425	6,988
2017	Copper; articles thereof n.e.c. in chapter 74	7 419	6,976
2017	Generators for producer or water gas with or without their purifiers acetylene gas generators and similar water process gas generators, with or without their purifiers	8 405	6,766
2017	Conveyor or transmission belts or belting, of vulcanised rubber	4 010	6,567
2017	Machine-tools; for planing, shaping, slotting, broaching, gear cutting and grinding, finishing, sawing, cutting off and other tools working by removing metal, sintered metal carbides or cermets n.e.c.	8 461	6,016
2017	Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting	8 447	5,700
2017	Cutlery; spoons, forks, ladles, skimmers, cake-servers, fish-knives, butter knives, sugar tongs and similar kitchen or tableware	8 215	5,358
2017	Nails, tacks, drawing pins, corrugated nails, staples (not those of heading no. 8305) and the like, of iron or steel, with heads of other material or not, but excluding articles with heads of copper	7 317	5,321
2017	Converters, ladles, ingot moulds and casting machines; of a kind used metallurgy or in metal foundries	8 454	5,212
2017	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals	8 484	5,005
2017	Lamps; electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps, arc-lamps	8 539	4,494
2017	Machinery, apparatus and equipment (excluding machine-tools of heading no. 8456 to 8465) for preparing or making printing components; plates, cylinders and other printing components; lithographic stones prepared for printing purposes	8 442	4,477
2017	Tubes, pipes and hoses, of vulcanised rubber (other than hard rubber), with or without their fittings (e.g. joints, elbows, flanges)	4 009	4,397
2017	Cutlery; other articles, (e.g. hair clippers, butchers' or kitchen cleavers, choppers and mincing knives, paper knives), manicure or pedicure sets and instruments (including nail files)	8 214	4,346
2017	Machines and appliances, instruments or apparatus of chapter 90; parts and accessories n.e.c. in chapter 90	9 033	4,251
2017	Video recording or reproducing apparatus	8 521	4,075
2017	Stainless steel; flat-rolled products of width of 600mm or more	7 219	4,045
2017	Machine-tools; for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass	8 464	4,030
2017	Tin; bars, rods, profiles and wire	8 003	3,822
2017	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses, rangefinders	9 015	3,753
2017	Signalling apparatus; electric sound or visual (e.g. bells, sirens, indicator panels, burglar or fire alarms), excluding those of heading no. 8512 or 8530	8 531	3,706
2017	Knives; with cutting blades, serrated or not (including pruning knives), other than knives of heading no. 8208, and blades therefore	8 211	3,602
2017	Zinc; articles n.e.c. in chapter 79	7 907	3,419

2017	Sound or video recording apparatus; parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521	8 522	3,273
2017	Circuits; printed	8 534	3,162
2017	Electric motors and generators; parts suitable for use solely or principally with the machines of heading no. 8501 or 8502	8 503	2,914
2017	Bodies; (including cabs) for the motor vehicles of heading no. 8701 to 8705	8 707	2,778
2017	Copper wire	7 408	2,715
2017	Iron or steel sheet piling, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel	7 301	2,480
2017	Breathing appliances and gas masks; excluding protective masks having neither mechanical parts nor replaceable filters and excluding apparatus of item no. 9019.20	9 020	2,443
2017	Reciprocating or rotary internal combustion piston engines	8 407	2,310
2017	Chain and parts thereof, of iron or steel	7 315	2,160
2017	Lighting or visual signalling equipment (excluding articles of heading no. 8539), windscreen wipers, defrosters and demisters; electrical, of a kind used for cycles or motor vehicles	8 512	2,155
2017	Lamps; portable, electric, designed to function by their own source of energy (e.g. dry batteries, accumulators, magnetos), excluding lighting equipment of heading no. 8512	8 513	2,106
2017	Signalling, safety or traffic control equipment; for railways, tramways, roads, inland waterways, parking facilities, port installations, airfields, excluding those of heading no. 8608	8 530	2,080
2017	Air conditioning machines; comprising a motor driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated	8 415	1,842
2017	Iron or non-alloy steel; flat-rolled products of a width of 600mm or more, hot-rolled, not clad, plated or coated	7 208	1,793
2017	Drawing, marking-out, mathematical calculating instruments (drafting machines, protractors, drawing sets etc); instruments for measuring length (e.g. measuring rods, tapes, micrometers, callipers) n.e.c.	9 017	1,719
2017	Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8 527	1,669
2017	Sign plates, name plates, address plates and similar plates, numbers, letters and other symbols, of base metal, excluding those of heading no. 9405	8 310	1,568
2017	Plates, sheets, strip, rods and profile shapes, of vulcanised rubber other than hard rubber	4 008	1,527
2017	Mechano-therapy, massage appliances; psychological aptitude testing apparatus; ozone, oxygen, aerosol therapy, artificial respiration or other therapeutic respiration apparatus	9 019	1,501
2017	Tools, hand; saws and blades for saws of all kinds (including slitting, slotting or toothless blades)	8 202	1,494
2017	Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2mm	7 607	1,480
2017	Wrist-watches, pocket-watches, stop-watches and other watches, other than those of heading no. 9101	9 102	1,475
2017	Copper, nails, tacks, drawing pins, staples (not those of heading no. 8305) and the like, of copper or iron or steel with heads of copper; screws bolts, nuts, screws hooks, rivets, cotters, washers	7 415	1,456
2017	Safes; armoured or reinforced, strong-boxes, doors and safe deposit lockers for strong-rooms, cash or deed boxes and the like, of base metal	8 303	1,449
2017	Tubing; flexible, with or without fittings, of base metal	8 307	1,405
2017	Inner tubes, of rubber	4 013	1,403
2017	Copper tubes and pipes	7 411	1,184
2017	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), interchangeable spanner sockets, with or without handles	8 204	992
2017	Household or laundry-type washing machines; including machines which both wash and dry	8 450	877
2017	Tools, hand; two or more of heading no. 8202 to 8205, put up in sets for retail sale	8 206	875
2017	Office machines; not elsewhere classified	8 472	862
2017	Spectacles, goggles and the like; corrective, protective or other	9 004	741
2017	Machines; calendering or other rolling machines, for other than metal or glass and cylinders therefor	8 420	700
2017	Tools, hand; spades, shovels, mattocks, picks, hoes, forks, rakes; axes, bill hooks etc; secateurs and pruners of any kind; scythes, sickles, hay knives, hedge shears, timber wedges and other tools used in agriculture, horticulture, forestry	8 201	687
2017	Copper; table, kitchen or other household articles and parts thereof; pot scourers, scouring, polishing pads, gloves and the like; sanitary ware and parts thereof	7 418	675
2017	Automatic goods-vending machines (e.g. postage stamp, cigarette, food or beverage machines), including money-changing machines	8 476	672
2017	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits; for a voltage exceeding 1000 volts	8 535	669
2017	Stainless steel wire	7 223	579
2017	Polymers of styrene, in primary forms	3 903	564
2017	Ferro-alloys	7 202	561

2017	Insulating fittings; for electrical machines, appliances, equipment, excluding insulators of heading no. 8546, electrical conduit tubing and joints therefore	8 547	552
2017	Time switches; with clock, watch movement or synchronous motor	9 107	501
2017	Electrical capacitors; fixed, variable or adjustable (pre-set)	8 532	472
2017	Iron or non-alloy steel; flat-rolled products, width 600mm or more, cold-rolled (cold-reduced), not clad, plated or coated	7 209	465
2017	Furnaces and ovens; industrial or laboratory, including incinerators, non-electric	8 417	447
2017	Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon; with or without metal, of a kind used for electrical purposes	8 545	445
2017	Machinery, auxiliary; for use with machines of heading no. 8444 to 8447 (e.g. dobbies, jacquards, automatic stop motions, shuttle changing mechanisms) parts, accessories for machines of heading no. 8444, 8447	8 448	335
2017	Wire of other alloy steel	7 229	269
2017	Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber	4 012	264
2017	Iron or non-alloy steel; flat-rolled products, width less than 600mm, clad, plated or coated	7 212	237
2017	Aluminium; plates, sheets and strip, thickness exceeding 0.2mm	7 606	193
2017	Vacuum cleaners	8 508	193
2017	Nickel; bars, rods, profiles and wire	7 505	172
2017	Aluminium; tubes and pipes	7 608	164
2017	Hard rubber (e.g. ebonite) in all forms, including waste and scrap; articles of hard rubber	4 017	94
2017	Silicones in primary forms	3 910	76
2017	Scissors; tailors' shears and similar shears, and blades therefore	8 213	75
2017	Articles of apparel and clothing accessories (including gloves, mittens and mitts), for all purposes, of vulcanised rubber other than hard rubber	4 015	58
2017	Stainless steel; flat-rolled products of width less than 600mm	7 220	40
2017	Amino-resins, phenolic resins and polyurethanes, in primary forms	3 909	32
2017	Aluminium; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7 609	31
2017	Tools; hand-operated mechanical appliances, weighing 10kg or less, used in the preparation, conditioning or serving of food or drink	8 210	28
2017	Sound recording or reproducing apparatus	8 519	25
2017	Cameras, photographic (excluding cinematographic); photographic flashlight apparatus and flashbulbs other than discharge lamps of heading no. 8539	9 006	24
2017	Cells and batteries; primary	8 506	23
2017	Wire of iron or non-alloy steel	7 217	8
2017	Clocks, other, n.e.c.	9 105	4



## Appendix 4: Import of foreign commodities, trade value, 2016-2017

Year	Commodity	Commodity Code	Trade Value (\$)
2016	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8703	107,287,801
2016	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8544	76,674,072
2016	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8517	60,423,258
2016	Tractors; (other than tractors of heading no 8709)	8701	40,637,309
2016	Copper wire	7408	38,667,640
2016	New pneumatic tyres, of rubber	4011	36,600,395
2016	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8708	36,386,712
2016	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8536	33,919,140
2016	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8471	25,854,468
2016	Insulating fittings; for electrical machines, appliances, equipment, excluding insulators of heading no. 8546, electrical conduit tubing and joints therefore	8547	25,486,327
2016	Iron or non-alloy steel; flat-rolled products, width 600mm or more, clad, plated or coated	7210	23,712,952
2016	Plastics; plates, sheets, film, foil and strip (not self-adhesive); non-cellular and not reinforced, laminated, supported or similarly combined with other materials, n.e.c. in chapter 39	3920	23,003,560
2016	Articles of plastics and articles of other materials of heading no. 3901 to 3914, n.e.c. in chapter 39	3926	21,833,130
2016	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading no. 8415	8418	21,830,061
2016	Structures of iron or steel and parts thereof; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures	7308	21,718,849
2016	Monofilament of which any cross-sectional dimension exceeds 1mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics	3916	21,609,739
2016	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3923	21,472,971
2016	Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus	8528	20,153,630
2016	Base metal mountings, fittings and similar articles for furniture, doors, staircases, windows, trunks, chests etc, castors with mountings of base metal, automatic door closers of base metal	8302	20,037,219
2016	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	8432	19,912,048
2016	Tubes, pipes and hoses and fittings thereof (for example, joints, elbows, flanges), of plastics	3917	18,799,108
2016	Iron or non-alloy steel; bars and rods, not further worked than forged, hot-rolled, hot drawn or hot-extruded, but including those twisted after rolling	7214	18,641,372
2016	Harvesting and threshing machinery, straw and fodder balers, grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading no 8437	8433	18,033,232
2016	Plastic plates, sheets, film, foil and strip n.e.c. in chapter 39	3921	17,433,454
2016	Electrical apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8535, 8536 and 8537	8538	16,465,171
2016	Articles of vulcanised rubber other than hard rubber, n.e.c. in chapter 40	4016	14,779,339
2016	Electric water, space, soil heaters; electro-thermic hair-dressing apparatus; hand dryers, irons; electro-thermic appliances for domestic purposes; electro heating resistors, not of heading no. 8545	8516	14,773,921
2016	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases	8421	14,470,087
2016	Machinery and mechanical appliances; having individual functions, n.e.c. in this chapter	8479	13,555,876
2016	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves	8481	13,401,936
2016	Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight testing instruments	9018	12,444,046
2016	Vehicles; for the transport of goods	8704	12,177,148
2016	Iron or steel (excluding cast iron); tubes, pipes and hollow profiles (not seamless), n.e.c. in chapter 73	7306	11,782,116
2016	Machinery, plant (not domestic), or laboratory equipment; electrically heated or not, (excluding items in 85.14) for the treatment of materials by a process involving change of temperature; including instantaneous or non electric storage water heaters	8419	10,959,904
2016	Trailers and semi-trailers; other vehicles, not mechanically propelled; parts thereof	8716	10,895,050

2016	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8413	10,613,994
2016	Electric transformers, static converters (e.g. rectifiers) and inductors	8504	10,532,501
2016	Central heating boilers; excluding those of heading no. 8402	8403	10,400,858
2016	Polymers of ethylene, in primary forms	3901	10,369,432
2016	Special purpose motor vehicles; not those for the transport of persons or goods (e.g. breakdown lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units etc)	8705	10,335,156
2016	Air conditioning machines; comprising a motor driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated	8415	9,994,609
2016	Household or laundry-type washing machines; including machines which both wash and dry	8450	9,572,034
2016	Iron or steel; articles, n.e.c. in chapter 73	7326	8,838,066
2016	Electric accumulators, including separators therefor; whether or not rectangular (including square)	8507	8,505,295
2016	Vehicles; public transport passenger type	8702	8,354,858
2016	Orthopaedic appliances; including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other which are worn, carried or implanted in the body to compensate for a defect or disability	9021	8,337,736
2016	Plastics; builders' wares n.e.c. or included	3925	8,322,680
2016	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan whether or not fitted with filters	8414	8,073,233
2016	Tableware, kitchenware, other household articles and hygienic or toilet articles, of plastics	3924	7,667,573
2016	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms	3907	7,069,797
2016	Printing machinery; used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof	8443	7,040,364
2016	Boards, panels, consoles, desks, cabinets, bases with apparatus of heading no. 8535, 8536 for electricity control and distribution, (other than switching apparatus of heading no. 8517)	8537	6,973,590
2016	Mechanical appliances for projecting, dispersing or spraying liquids or powders; fire extinguishers, spray guns, steam, sand blasting machines	8424	6,906,983
2016	Aluminium; bars, rods and profiles	7604	6,741,199
2016	Lifting, handling, loading or unloading machinery; n.e.c. in heading no. 8425, 8426 or 8427 (e.g. lifts, escalators, conveyors, teleferics)	8428	6,647,394
2016	Iron or non-alloy steel, angles, shapes and sections	7216	6,573,146
2016	Screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter-pins, washers (including spring washers) and similar articles, of iron or steel	7318	6,564,318
2016	Bulldozers, graders, levellers, scrapers, angledozers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers, self-propelled	8429	6,172,977
2016	Polymers of vinyl chloride or of other halogenated olefins, in primary forms	3904	6,106,681
2016	Measuring or checking instruments, appliances and machines, n.e.c. or included in this chapter; profile projectors	9031	6,022,960
2016	Electronic integrated circuits	8542	5,945,681
2016	Radiators for central heating, not electrically heated and parts thereof, of iron or steel; air heaters, hot air distributors not electrically heated, with motor fan or blower	7322	5,809,065
2016	Wire of iron or non-alloy steel	7217	5,675,681
2016	Machinery n.e.c. in this chapter, for the industrial preparation or manufacture of food or drink; other than machinery for extraction or preparation of animal or fixed vegetable fats or oils	8438	5,535,914
2016	Transmission shafts (including cam and crank) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers; flywheels and pulleys; clutches and shaft couplings	8483	5,382,963
2016	Polymers of styrene, in primary forms	3903	5,321,567
2016	Tools; for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor	8467	5,004,075
2016	Polymers of propylene or of other olefins, in primary forms	3902	4,959,309
2016	Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders	8525	4,777,627
2016	Dish washing machines; machinery for cleaning, drying, filling, closing, sealing, capsuling or labelling bottles, cans, boxes, bags, etc, machinery for aerating beverages	8422	4,762,849
2016	Table, kitchen, other household articles and parts, of iron or steel; iron or steel wool; pot scourers and scouring or polishing pads, gloves and the like, of iron or steel	7323	4,758,463
2016	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls	3919	4,724,753
2016	Electrical machines and apparatus; having individual functions, not specified or included elsewhere in this chapter	8543	4,698,918
2016	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8309	4,469,614

2016	Agricultural, horticultural, forestry, poultry-keeping, bee-keeping machinery; including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders	8436	4,257,424
2016	Stainless steel; flat-rolled products of width of 600mm or more	7219	4,176,363
2016	Iron or non-alloy steel; flat-rolled products of a width of 600mm or more, hot-rolled, not clad, plated or coated	7208	4,085,429
2016	Stoves, ranges, grates, cookers (those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances and parts, of iron or steel	7321	4,023,095
2016	Instruments, apparatus for measuring, checking electrical quantities not meters of heading no. 9028; instruments, apparatus for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	9030	3,964,394
2016	Discs, tapes, solid-state non-volatile storage devices, smart cards and other media for the recording of sound or of other phenomena, whether or not recorded, including matrices and masters for the production of discs, excluding products of Chapter 37	8523	3,930,038
2016	Machine-tools; (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard plastics or rubber or similar hard materials	8465	3,909,090
2016	Parts suitable for use solely or principally with the engines of heading no. 8407 or 8408	8409	3,905,124
2016	Clasps; frames with clasps, buckles, hooks, eyes, eyelets etc used for clothing, footwear, awnings, handbags, travel goods or other articles, tubular, bifurcated rivets, beads, spangles, of base metal	8308	3,831,614
2016	Acrylic polymers in primary forms	3906	3,819,125
2016	Sanitary ware; baths, shower-baths, sinks, wash-basins, bidets, lavatory pans, seats and covers, flushing cisterns and sanitary ware, of plastics	3922	3,721,711
2016	Machinery; parts and accessories (not covers, carrying cases and the like) suitable for use solely or principally with machines of heading no. 8469 to 8472	8473	3,652,050
2016	Sewing machines; other than book-sewing machines of heading no. 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles	8452	3,647,105
2016	Instruments and apparatus; for physical or chemical analysis (e.g. polarimeters, spectrometers), for measuring or checking viscosity, porosity, etc, for measuring quantities of heat, sound or light	9027	3,588,048
2016	Aluminium; structures (excluding prefabricated buildings of heading no. 9406) and parts (e.g. bridges and sections, towers, lattice masts, etc) plates, rods, profiles and tubes for structures	7610	3,582,223
2016	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores in solid form, shaping, moulding machinery for solid mineral fuels	8474	3,567,302
2016	Ball or roller bearings	8482	3,507,636
2016	Tanks, casks, drums, cans, boxes and similar containers, for any material (excluding compressed or liquefied gas), of iron or steel, capacity not exceeding 300l, whether or not lined or heat-insulated	7310	3,439,391
2016	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9028	3,289,295
2016	Cellulose and its chemical derivatives, n.e.c. or included, in primary forms	3912	3,220,472
2016	Machinery; for working rubber or plastics or for the manufacture of products from these materials, n.e.c. in this chapter	8477	3,092,182
2016	Vacuum cleaners	8508	3,017,510
2016	Springs and leaves for springs, of iron or steel	7320	3,004,429
2016	Electric motors and generators (excluding generating sets)	8501	2,968,155
2016	Tube or pipe fittings (e.g. couplings, elbows, sleeves), of iron or steel	7307	2,887,422
2016	Electro-mechanical domestic appliances; with self-contained electric motor, other than vacuum cleaners of heading 85.08.	8509	2,870,767
2016	Electric generating sets and rotary converters	8502	2,867,849
2016	Iron or steel (excluding cast iron); tubes and pipes (e.g. welded, riveted or similarly closed), having circular cross-sections, external diameter of which exceeds 406.4mm, not seamless	7305	2,824,137
2016	Fork-lift and other works trucks; fitted with lifting or handling equipment	8427	2,810,867
2016	Sign plates, name plates, address plates and similar plates, numbers, letters and other symbols, of base metal, excluding those of heading no. 9405	8310	2,791,064
2016	X-ray, alpha, beta, gamma radiation apparatus; x-ray tubes, x-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like	9022	2,728,959
2016	Razors and razor blades; (including razor blade blanks in strips)	8212	2,668,027
2016	Tools, interchangeable; for hand tools, whether or not power-operated, or for machine tools (pressing, stamping, punching, drilling etc), including dies for drawing or extruding metal, and rock drilling or earth boring tools	8207	2,636,387
2016	Diodes, transistors, similar semiconductor devices; including photovoltaic cells assembled or not in modules, panels, light emitting mounted piezo-electric crystals	8541	2,549,024
2016	Ignition or starting equipment; used for spark-ignition or compression-ignition internal combustion engines; generators and cut outs used in conjunction with such engines	8511	2,514,786
2016	Electric (electrically heated gas) soldering, brazing, welding machines and apparatus, capable or not of cutting, electric machines and apparatus for hot spraying of metals or sintered carbides	8515	2,480,779

2016	Wires, rods, tubes, plates, electrodes of base metal or metal carbides; of a kind used for soldering, brazing, welding; wires and rods for metal spraying	8311	2,463,927
2016	Lamps; electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps, arc-lamps	8539	2,451,273
2016	Machines for cleaning, sorting, grading seed, grain, dried leguminous vegetables; machinery used in the milling industry for the working of cereals or dried leguminous vegetables, not farm type machinery	8437	2,412,402
2016	Aluminium; articles n.e.c. in chapter 76	7616	2,379,908
2016	Padlocks and locks (key, combination, electrically operated) of base metal; clasps and frames with clasps incorporating locks, of base metal, keys for any or the foregoing articles, of base metal	8301	2,373,478
2016	Microphones and their stands; loudspeakers, mounted or not in their enclosures; headphones and earphones, combined or not with a microphone, and sets of a microphone and one or more loudspeakers; audio frequency and electric sound amplifiers and sets	8518	2,366,530
2016	Aluminium; plates, sheets and strip, thickness exceeding 0.2mm	7606	2,331,570
2016	Aluminium; table, kitchen or other household articles and parts thereof, pot scourers and scouring or polishing pads, gloves and the like, sanitary ware and parts thereof	7615	2,274,037
2016	Wrist-watches, pocket-watches, stop-watches and other watches, other than those of heading no. 9101	9102	2,253,314
2016	Office machines; not elsewhere classified	8472	2,247,044
2016	Floor coverings of plastics, self-adhesive or not, in rolls or tiles; wall or ceiling coverings of plastics, in rolls of a width not less than 45cm	3918	2,190,283
2016	Signalling apparatus; electric sound or visual (e.g. bells, sirens, indicator panels, burglar or fire alarms), excluding those of heading no. 8512 or 8530	8531	2,185,079
2016	Conveyor or transmission belts or belting, of vulcanised rubber	4010	2,144,002
2016	Iron or non-alloy steel; bars and rods, hot-rolled, in irregularly wound coils	7213	2,028,464
2016	Tools, hand; (including glaziers' diamonds) n.e.c.; blow lamps; vices, clamps etc, other than accessories for and parts of, machine tools; anvils; portable forges; hand or pedal operated grinding wheels with frameworks	8205	2,003,881
2016	Reservoirs, tanks, vats and similar containers; for any material (excluding compressed or liquefied gas), of iron or steel, capacity exceeding 300l, whether or not lined or heat insulated	7309	1,973,257
2016	Instruments, apparatus for measuring or checking the flow, level, pressure of liquids, gases (e.g. flow meters, heat meters etc), not instruments and apparatus of heading no. 9014, 9015, 9028 or 9032	9026	1,972,920
2016	Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers in primary forms	3905	1,924,094
2016	Circuits; printed	8534	1,913,646
2016	Amino-resins, phenolic resins and polyurethanes, in primary forms	3909	1,906,259
2016	Machine-tools; (including presses) for working metal by forging, hammering or die-stamping, for bending, folding, straightening, flattening, shearing or punching metal	8462	1,885,695
2016	Machinery parts; used solely or principally with the machinery of heading no. 8425 to 8430	8431	1,841,593
2016	Tubes, pipes and hoses, of vulcanised rubber (other than hard rubber), with or without their fittings (e.g. joints, elbows, flanges)	4009	1,812,356
2016	Sanitary ware and parts thereof, of iron or steel	7324	1,762,099
2016	Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss	8514	1,744,168
2016	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals	8484	1,691,709
2016	Moulding boxes for metal foundry, moulding patterns, moulds for metals (excluding ingot moulds), metal carbides, glass, mineral materials, rubber or plastics	8480	1,687,660
2016	Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2mm	7607	1,646,565
2016	Copper; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7412	1,642,171
2016	Copper tubes and pipes	7411	1,618,034
2016	Iron or non-alloy steel; flat-rolled products, width 600mm or more, cold-rolled (cold-reduced), not clad, plated or coated	7209	1,600,771
2016	Machines; for making up paper pulp, paper or paperboard, including cutting machines of all kinds	8441	1,584,016
2016	Regulating or controlling instruments and apparatus; automatic type	9032	1,582,615
2016	Spectacles, goggles and the like; corrective, protective or other	9004	1,539,624
2016	Presses, crushers and similar machinery; used in the manufacture of wine, cider, fruit juices or similar beverages	8435	1,519,840
2016	Vehicles; parts and accessories of heading no. 8711 to 8713	8714	1,511,377
2016	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7304	1,479,292
2016	Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar, incorporating a calculating device; cash registers	8470	1,449,333
2016	Mechano-therapy, massage appliances; psychological aptitude testing apparatus; ozone, oxygen, aerosol therapy, artificial respiration or other therapeutic respiration apparatus	9019	1,420,179

2016	Articles of apparel and clothing accessories (including gloves, mittens and mitts), for all purposes, of vulcanised rubber other than hard rubber	4015	1,398,375
2016	Bicycles and other cycles; including delivery tricycles, not motorised	8712	1,380,360
2016	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, not laser diodes; other optical appliances and instruments n.e.c. in this chapter	9013	1,366,286
2016	Electrical capacitors; fixed, variable or adjustable (pre-set)	8532	1,339,472
2016	Plates, sheets, strip, rods and profile shapes, of vulcanised rubber other than hard rubber	4008	1,301,741
2016	Lighting or visual signalling equipment (excluding articles of heading no. 8539), windscreen wipers, defrosters and demisters; electrical, of a kind used for cycles or motor vehicles	8512	1,271,079
2016	Cells and batteries; primary	8506	1,229,435
2016	Nails, tacks, drawing pins, corrugated nails, staples (not those of heading no. 8305) and the like, of iron or steel, with heads of other material or not, but excluding articles with heads of copper	7317	1,228,864
2016	Machinery; for making pulp of fibrous cellulosic material, or for making or finishing paper or paperboard	8439	1,199,902
2016	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines	8453	1,179,056
2016	Knives and cutting blades, for machines or for mechanical appliances	8208	1,156,396
2016	Machinery (not of heading no. 8450) for washing, cleaning, wringing, drying, ironing, pressing, bleaching, dyeing, dressing, finishing, coating or impregnating textile yarn, fabrics or made up articles	8451	1,125,153
2016	Hygienic or pharmaceutical articles (including teats), of vulcanised rubber other than hard rubber, with or without fittings of hard rubber	4014	1,107,218
2016	Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7314	1,078,554
2016	Aluminium casks, drums, cans, boxes etc (including rigid, collapsible tubular containers), for materials other than compressed, liquefied gas, 300l capacity or less, lined, heat-insulated or not	7612	1,065,657
2016	Moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals, or ores; pile drivers and extractors; snow ploughs and snow blowers	8430	1,064,038
2016	Iron or non-alloy steel; flat-rolled products, width less than 600mm, not clad, plated or coated	7211	1,038,657
2016	Machine-tools; parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, and tool holders for any type of tool for working in the hand	8466	1,032,246
2016	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits; for a voltage exceeding 1000 volts	8535	1,005,222
2016	Transmission apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8525 to 8528	8529	996,310
2016	Tools, hand; saws and blades for saws of all kinds (including slitting, slotting or toothless blades)	8202	992,039
2016	Weighing machines; excluding balances of a sensitivity of 5cg or better, including weight operated counting or checking machines and weights of all kinds	8423	990,398
2016	Iron or steel; cast articles	7325	948,319
2016	Signalling, safety or traffic control equipment; for railways, tramways, roads, inland waterways, parking facilities, port installations, airfields, excluding those of heading no. 8608	8530	946,989
2016	Compounded rubber, unvulcanised, in primary forms or in plates, sheets or strip	4005	942,771
2016	Electrical resistors (including rheostats and potentiometers), excluding heating resistors	8533	940,094
2016	Alloy steel bars, rods, shapes and sections; hollow drill bars and rods, of alloy or non-alloy steel	7228	938,803
2016	Pulley tackle and hoists other than skip hoists; winches and capstans; jacks	8425	938,610
2016	Radar apparatus, radio navigational aid apparatus and radio remote control apparatus	8526	925,489
2016	Iron or non-alloy steel; bars and rods, n.e.c. in chapter 72	7215	877,026
2016	Baby carriages and parts thereof	8715	820,117
2016	Shavers, hair clippers and hair removing appliances, with self-contained electric motor	8510	819,974
2016	Electrical insulators of any material	8546	787,847
2016	Cutlery; spoons, forks, ladles, skimmers, cake-servers, fish-knives, butter knives, sugar tongs and similar kitchen or tableware	8215	787,210
2016	Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not	9025	764,567
2016	Iron or non-alloy steel; flat-rolled products, width less than 600mm, clad, plated or coated	7212	764,500
2016	Chain and parts thereof, of iron or steel	7315	741,048
2016	Video recording or reproducing apparatus	8521	740,394
2016	Milking machines and dairy machinery	8434	731,793
2016	Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of heading no. 4001 and 4002, in primary forms or in plates, sheets or strip	4002	696,601

2016	Optical fibres and optical fibre bundles; optical fibre cables not of heading no. 8544; sheets, plates of polarising material; lenses, prisms, mirrors, of any material; unmounted; not non optical glass	9001	663,474
2016	Tubing; flexible, with or without fittings, of base metal	8307	654,723
2016	Frames and mountings; for spectacles, goggles or the like, and parts	9003	644,685
2016	Aircraft; parts of heading no. 8801 or 8802	8803	630,426
2016	Furnaces and ovens; industrial or laboratory, including incinerators, non-electric	8417	609,278
2016	Engines and motors; n.e.c. (e.g. reaction engines, hydraulic power engines, pneumatic power engines)	8412	601,329
2016	Tools, hand; spades, shovels, mattocks, picks, hoes, forks, rakes; axes, bill hooks etc; secateurs and pruners of any kind; scythes, sickles, hay knives, hedge shears, timber wedges and other tools used in agriculture, horticulture, forestry	8201	601,193
2016	Electric motors and generators; parts suitable for use solely or principally with the machines of heading no. 8501 or 8502	8503	584,617
2016	Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting	8447	572,452
2016	Knives; with cutting blades, serrated or not (including pruning knives), other than knives of heading no. 8208, and blades therefore	8211	564,024
2016	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), interchangeable spanner sockets, with or without handles	8204	530,126
2016	Stationery; fittings for loose-leaf binders or files, letter clips, letter corners, paper clips, indexing tags and the like, staples in strips (for offices, upholstery, packaging), of base metal	8305	524,486
2016	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7312	523,035
2016	Microscopes, compound optical; including those for photomicrography, cinephotomicrography or microprojection	9011	506,363
2016	Machine-tools; for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass	8464	493,463
2016	Machine-tools; (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes of heading no. 8458	8459	492,084
2016	Tools, hand; files, rasps, pliers (including cutting pliers), pincers, tweezers, metal cutting shears, pipe cutters, bolt croppers, perforating punches and similar	8203	483,981
2016	Drawing, marking-out, mathematical calculating instruments (drafting machines, protractors, drawing sets etc); instruments for measuring length (e.g. measuring rods, tapes, micrometers, callipers) n.e.c.	9017	482,597
2016	Motorcycles (including mopeds) and cycles; fitted with an auxiliary motor, with or without side-cars; side-cars	8711	468,535
2016	Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber	4012	468,088
2016	Machines and appliances for testing the hardness, strength, compressibility, elasticity of other mechanical properties of materials (e.g. metals, wood, textiles, paper, plastics)	9024	466,208
2016	Tools, hand; two or more of heading no. 8202 to 8205, put up in sets for retail sale	8206	464,143
2016	Stainless steel bars and rods, angles, shapes and sections	7222	449,384
2016	Derricks, cranes, including cable cranes, mobile lifting frames, straddle carriers and works trucks fitted with a crane	8426	440,565
2016	Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8527	436,315
2016	Aluminium; stranded wire, cables, plaited bands and the like, (not electrically insulated)	7614	407,378
2016	Bodies; (including cabs) for the motor vehicles of heading no. 8701 to 8705	8707	406,808
2016	Generators for producer or water gas with or without their purifiers acetylene gas generators and similar water process gas generators, with or without their purifiers	8405	380,941
2016	Containers for compressed or liquefied gas, of iron or steel	7311	379,098
2016	Machinery; for preparing or making up tobacco, n.e.c. in this chapter	8478	374,703
2016	Machine-tools; for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, sintered metal carbides or cermets by means of grinding stones, abrasives or polishing products	8460	371,297
2016	Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)	8408	357,481
2016	Inner tubes, of rubber	4013	350,488
2016	Automatic goods-vending machines (e.g. postage stamp, cigarette, food or beverage machines), including money-changing machines	8476	334,552
2016	Titanium; articles thereof, including waste and scrap	8108	328,553
2016	Lamps; portable, electric, designed to function by their own source of energy (e.g. dry batteries, accumulators, magnetos), excluding lighting equipment of heading no. 8512	8513	320,421
2016	Auxiliary plant for use with boilers of heading no. 8402 or 8403; e.g. economisers, super-heaters, soot removers, gas recoverers), condensers for steam or other vapour power units	8404	312,654
2016	Zinc; articles n.e.c. in chapter 79	7907	299,294
2016	Boilers; steam or other vapour generating (other than central heating hot water boilers, capable also of producing low pressure steam), super heated water boilers	8402	292,386
2016	Lathes for removing metal	8458	288,013

2016	Machinery, apparatus and equipment (excluding machine-tools of heading no. 8456 to 8465) for preparing or making printing components; plates, cylinders and other printing components; lithographic stones prepared for printing purposes	8442	271,325
2016	Bells, gongs and the like; non-electric, statuettes, other ornaments, photograph, picture, similar frames, mirrors, of base metal	8306	265,102
2016	Machine-tools; for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam, or plasma arc processes; water-jet cutting machines	8456	263,332
2016	Carriages for disabled persons; whether or not motorised or otherwise mechanically propelled	8713	262,011
2016	Sound recording or reproducing apparatus	8519	248,853
2016	Clocks, other, n.e.c.	9105	246,433
2016	Safes; armoured or reinforced, strong-boxes, doors and safe deposit lockers for strong-rooms, cash or deed boxes and the like, of base metal	8303	244,310
2016	Machining centres, unit construction machines (single station) and multi-station transfer machines for working metal	8457	243,366
2016	Revolution counter, production counters, taximeters, mileometers, pedometers and the like, speed indicators and tachometers, other than those of heading no. 9015, stroboscopes	9029	239,483
2016	Cutlery; other articles, (e.g. hair clippers, butchers' or kitchen cleavers, choppers and mincing knives, paper knives), manicure or pedicure sets and instruments (including nail files)	8214	237,412
2016	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts or fittings for instruments or apparatus, other than such elements of glass not optically worked	9002	236,123
2016	Tubes, pipes and hollow profiles, of cast iron	7303	233,042
2016	Electro-magnets; permanent magnets, intended permanent magnets; electro-magnetic, permanent magnet chucks, clamps, similar; electromagnetic couplings, clutches, brakes; electro-magnetic lifting heads	8505	227,916
2016	Aluminium; unwrought	7601	226,481
2016	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses, rangefinders	9015	224,442
2016	Copper plates, sheets and strip; of a thickness exceeding 0.15mm	7409	223,777
2016	Railway or tramway locomotives or rolling stock; parts thereof	8607	221,118
2016	Tin; bars, rods, profiles and wire	8003	216,875
2016	Machinery, auxiliary; for use with machines of heading no. 8444 to 8447 (e.g. dobbies, jacquards, automatic stop motions, shuttle changing mechanisms) parts, accessories for machines of heading no. 8444, 8447	8448	216,410
2016	Wire of other alloy steel	7229	207,889
2016	Navigational instruments and appliances; direction finding compasses	9014	194,529
2016	Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon; with or without metal, of a kind used for electrical purposes	8545	187,627
2016	Machines; for assembling electric or electronic lamps, tubes, valves, flashbulbs, in glass envelopes, machines for manufacturing or hot working glass or glassware	8475	181,076
2016	Railway or tramway track constructions of iron or steel; rails, check and track rails, switch blades, crossing frogs, point rods, sleepers, fish-plates, chair wedges, sole plates, bedplates, ties and the like	7302	178,536
2016	Machine-tools; n.e.c. for working metal, sintered metal carbides or cermets without removing material	8463	174,565
2016	Machine-tools; for planing, shaping, slotting, broaching, gear cutting and grinding, finishing, sawing, cutting off and other tools working by removing metal, sintered metal carbides or cermets n.e.c.	8461	167,740
2016	Scissors; tailors' shears and similar shears, and blades therefore	8213	165,090
2016	Tools; hand-operated mechanical appliances, weighing 10kg or less, used in the preparation, conditioning or serving of food or drink	8210	163,586
2016	Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical grates, mechanical ash dischargers and similar appliances	8416	161,884
2016	Weaving machines (looms)	8446	154,339
2016	Anchors, grapnels and parts thereof, of iron or steel	7316	151,896
2016	Reciprocating or rotary internal combustion piston engines	8407	147,408
2016	Alloy steel flat-rolled products, of a width 600mm or more	7225	140,091
2016	Alloy steel flat-rolled products, of a width of less than 600mm	7226	139,237
2016	Cameras, photographic (excluding cinematographic); photographic flashlight apparatus and flashbulbs other than discharge lamps of heading no. 8539	9006	138,312
2016	Pig iron and spiegeleisen in pigs, blocks or other primary forms	7201	135,234
2016	Silicones in primary forms	3910	133,815
2016	Petroleum resins, coumarone-indene resins, polyterpenes, polysulphides, polysulphones and similar products of chemical synthesis n.e.c. in chapter 39, in primary forms	3911	132,603
2016	Machines and appliances, instruments or apparatus of chapter 90; parts and accessories n.e.c. in chapter 90	9033	130,290

2016	Machines; calendering or other rolling machines, for other than metal or glass and cylinders therefor	8420	129,939
2016	Stainless steel; flat-rolled products of width less than 600mm	7220	125,753
2016	Tools; plates, sticks, tips and the like for tools, unmounted, of sintered metal carbides or cermets	8209	121,924
2016	Iron or steel sheet piling, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel	7301	114,616
2016	Turbo-jets, turbo-propellers and other gas turbines	8411	114,350
2016	Copper; bars, rods and profiles	7407	110,153
2016	Ion-exchangers; based on polymers of heading no. 3901 to 3913, in primary forms	3914	109,518
2016	Stainless steel wire	7223	99,133
2016	Binoculars, monoculars, other optical telescopes, mountings therefore; other astronomical instruments, mountings therefore, but not including instruments for radio-astronomy	9005	96,726
2016	Works trucks, self-propelled, (not fitted with lifting or handling equipment), for factories, warehouses etc, for short distance transport of goods, tractors used on railway station platforms; parts thereof	8709	94,081
2016	Aluminium wire	7605	88,933
2016	Aluminium; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7609	86,576
2016	Polyamides in primary forms	3908	85,268
2016	Aluminium; tubes and pipes	7608	84,389
2016	Zinc; bars, rods, profiles and wire	7904	81,827
2016	Breathing appliances and gas masks; excluding protective masks having neither mechanical parts nor replaceable filters and excluding apparatus of item no. 9019.20	9020	81,453
2016	Balances; of a sensitivity of 5cg or better, with or without weights	9016	76,576
2016	Nickel; unwrought	7502	74,590
2016	Instruments, apparatus and models, designed for demonstrational purposes (in education or exhibitions), unsuitable for other uses	9023	71,759
2016	Book-binding machinery; including book-sewing machines	8440	70,272
2016	Yachts and other vessels; for pleasure or sports, rowing boats and canoes	8903	66,526
2016	Aircraft n.e.c. in heading no. 8801 (e.g. helicopters, aeroplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles	8802	63,937
2016	Copper, nails, tacks, drawing pins, staples (not those of heading no. 8305) and the like, of copper or iron or steel with heads of copper; screws bolts, nuts, screws hooks, rivets, cotters, washers	7415	60,171
2016	Wrist-watches, pocket-watches, stop-watches and other watches; with case of precious metal or of metal clad with precious metal	9101	59,647
2016	Machinery and apparatus for soldering, brazing, welding, whether or not capable of cutting, other than those of heading no. 8515; gas-operated surface tempering machines and appliances	8468	58,808
2016	Ferro-alloys	7202	57,324
2016	Office equipment; filing cabinets, card-index cabinets, paper trays and rests, pen trays, office-stamp stands and the like, of base metal, other than office furniture of heading no. 9403	8304	54,712
2016	Time of day recording apparatus and apparatus for measuring, recording or otherwise indicating intervals of time, with clock, watch movement or synchronous motor	9106	54,679
2016	Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	8608	54,605
2016	Stainless steel in ingots or other primary forms; semi-finished products of stainless steel	7218	53,687
2016	Cruise ships, excursion boats, ferry-boats, cargo ships, barges and similar vessels for the transport of persons or goods	8901	53,110
2016	Copper; table, kitchen or other household articles and parts thereof; pot scourers, scouring, polishing pads, gloves and the like; sanitary ware and parts thereof	7418	52,028
2016	Copper; articles thereof n.e.c. in chapter 74	7419	51,025
2016	Photographic (including cinematographic) laboratory apparatus and equipment, n.e.c. in chapter 90; negatoscopes; projection screens	9010	47,974
2016	Machinery parts; not containing electrical connectors, insulators, coils, contacts or other electrical features, n.e.c. in this chapter	8487	46,576
2016	Natural polymers (e.g. alginic acid) and modified natural polymers (e.g. hardened proteins, chemical derivatives of natural rubber), n.e.c. or included, in primary forms	3913	42,492
2016	Watch straps, watch bands, watch bracelets and parts thereof	9113	41,481
2016	Time switches; with clock, watch movement or synchronous motor	9107	37,620
2016	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not and loosely twisted double wire, of a kind used for fencing, of iron or steel	7313	37,618
2016	Containers; (including containers for transport of fluids) specially designed and equipped for carriage by one or more modes of transport	8609	33,148
2016	Cobalt; mattes and other intermediate products of cobalt metallurgy, cobalt and articles thereof, including waste and scrap	8105	32,850
2016	Sewing and knitting needles, bodkins, crochet hooks, embroidery stiletos and similar articles, for use in the hand, of iron or steel; safety pins and other pins of iron or steel, not elsewhere specified or included	7319	30,515



2016	Granules and powders, of pig iron, spiegeleisen, iron or steel	7205	29,096
2016	Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers	9008	28,461
2016	Zinc; plates, sheets, strip and foil	7905	27,738
2016	Unvulcanised rubber in other forms (e.g. rods, tubes and profile shapes) and articles (e.g. discs and rings)	4006	26,700
2016	Textile machinery; spinning, doubling, twisting machines, textile reeling or winding machines and machines for preparing textile yarns for use on machines of heading no. 8446 and 8447	8445	24,824
2016	Nickel; powders and flakes	7504	22,157
2016	Copper; stranded wire, cables, plaited bands and the like, not electrically insulated	7413	20,762
2016	Parachutes (including dirigible parachutes and paragliders) and rotochutes; parts thereof and accessories thereto	8804	20,500
2016	Magnesium; articles thereof, including waste and scrap	8104	19,474
2016	Microscopes (excluding optical microscopes); diffraction apparatus	9012	18,092
2016	Nickel; bars, rods, profiles and wire	7505	16,966
2016	Watch or clock movements, complete, unassembled or partly assembled (movement sets); incomplete watch or clock movements, assembled; rough watch or clock movements	9110	15,360
2016	Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus	9007	15,189
2016	Alloy steel in ingots or other primary forms, semi-finished products of other alloy steel	7224	14,459
2016	Reclaimed rubber in primary forms or in plates, sheets or strip	4003	12,825
2016	Thermionic, cold cathode or photo-cathode valves and tubes (e.g. vacuum, vapour, gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray and television camera tubes)	8540	11,962
2016	Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels	9104	10,924
2016	Steel, alloy; bars and rods, hot-rolled, in irregularly wound coils	7227	9,588
2016	Hard rubber (e.g. ebonite) in all forms, including waste and scrap; articles of hard rubber	4017	9,003
2016	Sound or video recording apparatus; parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521	8522	8,011
2016	Stainless steel bars and rods, hot-rolled, in irregularly wound coils	7221	7,179
2016	Textile machinery; for extruding, drawing, texturing or cutting man-made textile materials	8444	6,642
2016	Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.15mm	7410	6,422
2016	Metal-rolling mills and rolls therefor	8455	6,330
2016	Aluminium; reservoirs, tanks, vats and the like for material (not compressed or liquefied gas) of capacity over 300l, whether or not lined, heat-insulated, not fitted with mechanical, thermal equipment	7611	5,907
2016	Tungsten (wolfram); articles thereof, including waste and scrap	8101	5,422
2016	Aluminium; powders and flakes	7603	5,252
2016	Lead; articles n.e.c. in chapter 78	7806	4,700
2016	Turbines; steam and other vapour turbines	8406	4,668
2016	Copper; powders and flakes	7406	4,392
2016	Aircraft launching gear, deck-arrestor or similar gear, ground flying trainers; parts of the foregoing articles	8805	4,344
2016	Vulcanised rubber thread and cord	4007	4,326
2016	Clock movements; complete and assembled	9109	3,568
2016	Lead; plates, sheets, strip and foil, lead powders and flakes	7804	3,525
2016	Natural rubber, balata, gutta-percha, guayule, chicle and similar gums; in primary forms or in plates, sheets or strip	4001	3,170
2016	Bismuth; articles thereof, including waste and scrap	8106	3,085
2016	Converters, ladles, ingot moulds and casting machines; of a kind used metallurgy or in metal foundries	8454	2,996
2016	Nickel; articles thereof n.e.c. in chapter 75	7508	2,615
2016	Aluminium; containers for compressed or liquefied gas	7613	2,413
2016	Boats, floating structures, other (for e.g. rafts, tanks, coffer-dams, landing stages, buoys and beacons)	8907	2,175
2016	Typewriters (other than printers of heading no. 8443) and word-processing machines	8469	2,019
2016	Iron and non-alloy steel in ingots or other primary forms (excluding iron of heading no. 7203)	7206	1,653
2016	Iron or non-alloy steel; semi-finished products thereof	7207	1,605
2016	Cermets; articles thereof, including waste and scrap	8113	1,183
2016	Lead; unwrought	7801	991
2016	Watch movements; complete and assembled	9108	915
2016	Clocks; with watch movements, excluding clocks of heading no. 9104	9103	719
2016	Clock or watch parts; n.e.c. in chapter 91	9114	578

2016	Tin; articles n.e.c. in chapter 80	8007	484
2016	Clock cases and cases of a similar type for other goods of this chapter and parts thereof	9112	450
2016	Zinc; unwrought	7901	421
2016	Turbines; hydraulic water wheels and regulators therefor	8410	265
2016	Zinc; dust, powders and flakes	7903	255
2016	Watch cases and parts thereof	9111	237
2016	Tin; unwrought	8001	203
2016	Cadmium; articles thereof, including waste and scrap	8107	140
2016	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8548	134
2016	Antimony; articles thereof, including waste and scrap	8110	128
2016	Copper; refined and copper alloys, unwrought	7403	79
2016	Waste, parings and scrap, of plastics	3915	21
2016	Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 9-C to this Chapter	8486	19
2017	Motor cars and other motor vehicles; principally designed for the transport of persons (other than those of heading no. 8702), including station wagons and racing cars	8703	145,722,070
2017	Insulated wire, cable and other electric conductors, connector fitted or not; optical fibre cables of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors	8544	101,990,214
2017	Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data (including wired/wireless networks), excluding items of 8443, 8525, 8527, or 8528	8517	81,672,623
2017	Copper wire	7408	66,771,388
2017	Tractors; (other than tractors of heading no 8709)	8701	52,983,158
2017	Motor vehicles; parts and accessories, of heading no. 8701 to 8705	8708	42,137,233
2017	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts; connectors for optical fibres, optical fibre bundles or cables	8536	41,973,072
2017	New pneumatic tyres, of rubber	4011	36,081,832
2017	Automatic data processing machines and units thereof, magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included	8471	32,835,665
2017	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading no. 8415	8418	31,117,534
2017	Iron or non-alloy steel; flat-rolled products, width 600mm or more, clad, plated or coated	7210	29,923,345
2017	Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus	8528	29,657,735
2017	Articles of plastics and articles of other materials of heading no. 3901 to 3914, n.e.c. in chapter 39	3926	28,576,566
2017	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	8432	27,930,838
2017	Insulating fittings; for electrical machines, appliances, equipment, excluding insulators of heading no. 8546, electrical conduit tubing and joints therefore	8547	27,205,125
2017	Harvesting and threshing machinery, straw and fodder balers, grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading no 8437	8433	26,900,064
2017	Plastic articles for the conveyance or packing of goods; stoppers, lids, caps and other closures of plastics	3923	26,317,112
2017	Plastics; plates, sheets, film, foil and strip (not self-adhesive); non-cellular and not reinforced, laminated, supported or similarly combined with other materials, n.e.c. in chapter 39	3920	26,149,383
2017	Structures of iron or steel and parts thereof; plates, rods, angles, shapes, sections, tubes and the like, prepared for use in structures	7308	25,806,513
2017	Tubes, pipes and hoses and fittings thereof (for example, joints, elbows, flanges), of plastics	3917	24,899,169
2017	Monofilament of which any cross-sectional dimension exceeds 1mm, rods, sticks and profile shapes, whether or not surface-worked but not otherwise worked, of plastics	3916	23,040,740
2017	Electric water, space, soil heaters; electro-thermic hair-dressing apparatus; hand dryers, irons; electro-thermic appliances for domestic purposes; electro heating resistors, not of heading no. 8545	8516	18,823,719
2017	Iron or non-alloy steel; bars and rods, not further worked than forged, hot-rolled, hot drawn or hot-extruded, but including those twisted after rolling	7214	18,618,941
2017	Base metal mountings, fittings and similar articles for furniture, doors, staircases, windows, trunks, chests etc, castors with mountings of base metal, automatic door closers of base metal	8302	18,586,145
2017	Plastic plates, sheets, film, foil and strip n.e.c. in chapter 39	3921	18,480,553
2017	Iron or steel (excluding cast iron); tubes, pipes and hollow profiles (not seamless), n.e.c. in chapter 73	7306	17,712,419

2017	Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight testing instruments	9018	17,693,217
2017	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus for liquids or gases	8421	17,352,290
2017	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves	8481	16,469,930
2017	Electrical apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8535, 8536 and 8537	8538	15,891,245
2017	Vehicles; for the transport of goods	8704	15,124,823
2017	Trailers and semi-trailers; other vehicles, not mechanically propelled; parts thereof	8716	14,869,737
2017	Articles of vulcanised rubber other than hard rubber, n.e.c. in chapter 40	4016	13,531,437
2017	Electric transformers, static converters (e.g. rectifiers) and inductors	8504	13,357,508
2017	Central heating boilers; excluding those of heading no. 8402	8403	13,029,316
2017	Iron or steel; articles, n.e.c. in chapter 73	7326	12,147,670
2017	Polymers of ethylene, in primary forms	3901	11,989,056
2017	Machinery, plant (not domestic), or laboratory equipment; electrically heated or not, (excluding items in 85.14) for the treatment of materials by a process involving change of temperature; including instantaneous or non electric storage water heaters	8419	11,939,380
2017	Household or laundry-type washing machines; including machines which both wash and dry	8450	11,834,472
2017	Measuring or checking instruments, appliances and machines, n.e.c. or included in this chapter; profile projectors	9031	11,713,729
2017	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan whether or not fitted with filters	8414	11,633,866
2017	Pumps; for liquids, whether or not fitted with measuring device, liquid elevators	8413	11,481,152
2017	Orthopaedic appliances; including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other which are worn, carried or implanted in the body to compensate for a defect or disability	9021	11,270,294
2017	Machinery and mechanical appliances; having individual functions, n.e.c. in this chapter	8479	10,914,099
2017	Electric accumulators, including separators therefor; whether or not rectangular (including square)	8507	10,625,484
2017	Screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter-pins, washers (including spring washers) and similar articles, of iron or steel	7318	9,463,142
2017	Tableware, kitchenware, other household articles and hygienic or toilet articles, of plastics	3924	9,248,417
2017	Air conditioning machines; comprising a motor driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated	8415	9,222,581
2017	Vehicles; public transport passenger type	8702	8,989,026
2017	Iron or non-alloy steel, angles, shapes and sections	7216	8,750,654
2017	Plastics; builders' wares n.e.c. or included	3925	8,674,349
2017	Polymers of vinyl chloride or of other halogenated olefins, in primary forms	3904	8,648,503
2017	Printing machinery; used for printing by means of plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof	8443	8,300,258
2017	Aluminium; bars, rods and profiles	7604	7,998,492
2017	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms	3907	7,828,299
2017	Mechanical appliances for projecting, dispersing or spraying liquids or powders; fire extinguishers, spray guns, steam, sand blasting machines	8424	7,605,841
2017	Tools; for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor	8467	7,555,149
2017	Bulldozers, graders, levellers, scrapers, angledozers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers, self-propelled	8429	7,395,989
2017	Dish washing machines; machinery for cleaning, drying, filling, closing, sealing, capsuling or labelling bottles, cans, boxes, bags, etc, machinery for aerating beverages	8422	6,908,115
2017	Machinery n.e.c. in this chapter, for the industrial preparation or manufacture of food or drink; other than machinery for extraction or preparation of animal or fixed vegetable fats or oils	8438	6,903,523
2017	Radiators for central heating, not electrically heated and parts thereof, of iron or steel; air heaters, hot air distributors not electrically heated, with motor fan or blower	7322	6,396,245
2017	Lifting, handling, loading or unloading machinery; n.e.c. in heading no. 8425, 8426 or 8427 (e.g. lifts, escalators, conveyors, teleferics)	8428	6,375,299
2017	Polymers of styrene, in primary forms	3903	6,328,847
2017	Wire of iron or non-alloy steel	7217	6,279,722
2017	Boards, panels, consoles, desks, cabinets, bases with apparatus of heading no. 8535, 8536 for electricity control and distribution, (other than switching apparatus of heading no. 8517)	8537	6,236,652
2017	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls	3919	6,064,359

2017	Transmission shafts (including cam and crank) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers; flywheels and pulleys; clutches and shaft couplings	8483	6,060,259
2017	Agricultural, horticultural, forestry, poultry-keeping, bee-keeping machinery; including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders	8436	5,974,670
2017	Electrical machines and apparatus; having individual functions, not specified or included elsewhere in this chapter	8543	5,954,063
2017	Electronic integrated circuits	8542	5,941,216
2017	Polymers of propylene or of other olefins, in primary forms	3902	5,618,821
2017	Table, kitchen, other household articles and parts, of iron or steel; iron or steel wool; pot scourers and scouring or polishing pads, gloves and the like, of iron or steel	7323	5,562,375
2017	Parts suitable for use solely or principally with the engines of heading no. 8407 or 8408	8409	5,334,933
2017	Machinery; parts and accessories (not covers, carrying cases and the like) suitable for use solely or principally with machines of heading no. 8469 to 8472	8473	5,267,793
2017	Electric generating sets and rotary converters	8502	5,267,623
2017	Discs, tapes, solid-state non-volatile storage devices, smart cards and other media for the recording of sound or of other phenomena, whether or not recorded, including matrices and masters for the production of discs, excluding products of Chapter 37	8523	5,233,132
2017	Sewing machines; other than book-sewing machines of heading no. 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles	8452	5,221,740
2017	Stainless steel; flat-rolled products of width of 600mm or more	7219	5,200,574
2017	Iron or non-alloy steel; flat-rolled products of a width of 600mm or more, hot-rolled, not clad, plated or coated	7208	5,135,976
2017	Sanitary ware; baths, shower-baths, sinks, wash-basins, bidets, lavatory pans, seats and covers, flushing cisterns and sanitary ware, of plastics	3922	4,810,835
2017	Stoppers, caps, lids (including crown corks, screw caps, pouring stoppers); capsules for bottles, threaded bungs, bung covers, seals and other packaging accessories, of base metal	8309	4,708,559
2017	Ball or roller bearings	8482	4,496,688
2017	Stoves, ranges, grates, cookers (those with subsidiary boilers for central heating), barbecues, braziers, gas-rings, plate warmers and similar non-electric domestic appliances and parts, of iron or steel	7321	4,428,620
2017	Tanks, casks, drums, cans, boxes and similar containers, for any material (excluding compressed or liquefied gas), of iron or steel, capacity not exceeding 300l, whether or not lined or heat-insulated	7310	4,322,908
2017	Fork-lift and other works trucks; fitted with lifting or handling equipment	8427	4,146,490
2017	Aluminium; articles n.e.c. in chapter 76	7616	4,128,999
2017	Vacuum cleaners	8508	4,065,030
2017	Clasps; frames with clasps, buckles, hooks, eyes, eyelets etc used for clothing, footwear, awnings, handbags, travel goods or other articles, tubular, bifurcated rivets, beads, spangles, of base metal	8308	4,060,491
2017	Electrical apparatus for switching, protecting electrical circuits, for making connections to or in electrical circuits; for a voltage exceeding 1000 volts	8535	4,054,440
2017	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores in solid form, shaping, moulding machinery for solid mineral fuels	8474	4,047,999
2017	Special purpose motor vehicles; not those for the transport of persons or goods (e.g. breakdown lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units etc)	8705	4,034,224
2017	Instruments and apparatus; for physical or chemical analysis (e.g. polarimeters, spectrometers), for measuring or checking viscosity, porosity, etc, for measuring quantities of heat, sound or light	9027	3,990,837
2017	Electric (electrically heated gas) soldering, brazing, welding machines and apparatus, capable or not of cutting, electric machines and apparatus for hot spraying of metals or sintered carbides	8515	3,947,506
2017	Gas, liquid or electricity supply or production meters, including calibrating meters therefor	9028	3,808,636
2017	Circuits; printed	8534	3,778,545
2017	Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras, digital cameras and video camera recorders	8525	3,768,384
2017	Aluminium; structures (excluding prefabricated buildings of heading no. 9406) and parts (e.g. bridges and sections, towers, lattice masts, etc) plates, rods, profiles and tubes for structures	7610	3,734,144
2017	Acrylic polymers in primary forms	3906	3,635,591
2017	Microphones and their stands; loudspeakers, mounted or not in their enclosures; headphones and earphones, combined or not with a microphone, and sets of a microphone and one or more loudspeakers; audio frequency and electric sound amplifiers and sets	8518	3,617,093
2017	Electro-mechanical domestic appliances; with self-contained electric motor, other than vacuum cleaners of heading 85.08.	8509	3,612,126
2017	Electric motors and generators (excluding generating sets)	8501	3,608,107
2017	Tube or pipe fittings (e.g. couplings, elbows, sleeves), of iron or steel	7307	3,313,125

2017	Diodes, transistors, similar semiconductor devices; including photovoltaic cells assembled or not in modules, panels, light emitting mounted piezo-electric crystals	8541	3,304,269
2017	Lamps; electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps, arc-lamps	8539	3,287,959
2017	Springs and leaves for springs, of iron or steel	7320	3,253,443
2017	Ignition or starting equipment; used for spark-ignition or compression-ignition internal combustion engines; generators and cut outs used in conjunction with such engines	8511	3,222,235
2017	Padlocks and locks (key, combination, electrically operated) of base metal; clasps and frames with clasps incorporating locks, of base metal, keys for any or the foregoing articles, of base metal	8301	3,217,279
2017	Wrist-watches, pocket-watches, stop-watches and other watches, other than those of heading no. 9101	9102	3,176,742
2017	Machine-tools; (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard plastics or rubber or similar hard materials	8465	3,131,575
2017	Aluminium; table, kitchen or other household articles and parts thereof, pot scourers and scouring or polishing pads, gloves and the like, sanitary ware and parts thereof	7615	3,088,753
2017	Machinery parts; used solely or principally with the machinery of heading no. 8425 to 8430	8431	3,067,597
2017	Tools, interchangeable; for hand tools, whether or not power-operated, or for machine tools (pressing, stamping, punching, drilling etc), including dies for drawing or extruding metal, and rock drilling or earth boring tools	8207	3,003,396
2017	Iron or steel (excluding cast iron); tubes and pipes (e.g. welded, riveted or similarly closed), having circular cross-sections, external diameter of which exceeds 406.4mm, not seamless	7305	2,924,112
2017	Wires, rods, tubes, plates, electrodes of base metal or metal carbides; of a kind used for soldering, brazing, welding; wires and rods for metal spraying	8311	2,917,361
2017	Conveyor or transmission belts or belting, of vulcanised rubber	4010	2,844,026
2017	X-ray, alpha, beta, gamma radiation apparatus; x-ray tubes, x-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like	9022	2,782,735
2017	Machine-tools; (including presses) for working metal by forging, hammering or die-stamping, for bending, folding, straightening, flattening, shearing or punching metal	8462	2,666,523
2017	Floor coverings of plastics, self-adhesive or not, in rolls or tiles; wall or ceiling coverings of plastics, in rolls of a width not less than 45cm	3918	2,650,261
2017	Razors and razor blades; (including razor blade blanks in strips)	8212	2,627,798
2017	Instruments, apparatus for measuring or checking the flow, level, pressure of liquids, gases (e.g. flow meters, heat meters etc), not instruments and apparatus of heading no. 9014, 9015, 9028 or 9032	9026	2,617,535
2017	Cellulose and its chemical derivatives, n.e.c. or included, in primary forms	3912	2,570,922
2017	Copper tubes and pipes	7411	2,561,372
2017	Signalling apparatus; electric sound or visual (e.g. bells, sirens, indicator panels, burglar or fire alarms), excluding those of heading no. 8512 or 8530	8531	2,534,387
2017	Tools, hand; (including glaziers' diamonds) n.e.c.; blow lamps; vices, clamps etc, other than accessories for and parts of, machine tools; anvils; portable forges; hand or pedal operated grinding wheels with frameworks	8205	2,505,612
2017	Aluminium; plates, sheets and strip, thickness exceeding 0.2mm	7606	2,458,242
2017	Machines for cleaning, sorting, grading seed, grain, dried leguminous vegetables; machinery used in the milling industry for the working of cereals or dried leguminous vegetables, not farm type machinery	8437	2,436,025
2017	Machinery; for working rubber or plastics or for the manufacture of products from these materials, n.e.c. in this chapter	8477	2,348,343
2017	Amino-resins, phenolic resins and polyurethanes, in primary forms	3909	2,331,718
2017	Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss	8514	2,309,117
2017	Aluminium foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.2mm	7607	2,262,933
2017	Spectacles, goggles and the like; corrective, protective or other	9004	2,203,855
2017	Tubes, pipes and hoses, of vulcanised rubber (other than hard rubber), with or without their fittings (e.g. joints, elbows, flanges)	4009	2,162,323
2017	Instruments, apparatus for measuring, checking electrical quantities not meters of heading no. 9028; instruments, apparatus for measuring or detecting alpha, beta, gamma, x-ray, cosmic and other radiations	9030	2,113,373
2017	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals	8484	2,043,797
2017	Articles of apparel and clothing accessories (including gloves, mittens and mitts), for all purposes, of vulcanised rubber other than hard rubber	4015	2,018,926
2017	Polymers of vinyl acetate or of other vinyl esters, in primary forms; other vinyl polymers in primary forms	3905	1,999,641
2017	Transmission apparatus; parts suitable for use solely or principally with the apparatus of heading no. 8525 to 8528	8529	1,968,217
2017	Regulating or controlling instruments and apparatus; automatic type	9032	1,915,184
2017	Presses, crushers and similar machinery; used in the manufacture of wine, cider, fruit juices or similar beverages	8435	1,900,379

2017	Iron or non-alloy steel; flat-rolled products, width 600mm or more, cold-rolled (cold-reduced), not clad, plated or coated	7209	1,884,103
2017	Machinery (not of heading no. 8450) for washing, cleaning, wringing, drying, ironing, pressing, bleaching, dyeing, dressing, finishing, coating or impregnating textile yarn, fabrics or made up articles	8451	1,884,029
2017	Iron or non-alloy steel; flat-rolled products, width less than 600mm, not clad, plated or coated	7211	1,845,437
2017	Lighting or visual signalling equipment (excluding articles of heading no. 8539), windscreen wipers, defrosters and demisters; electrical, of a kind used for cycles or motor vehicles	8512	1,827,512
2017	Sanitary ware and parts thereof, of iron or steel	7324	1,815,877
2017	Reservoirs, tanks, vats and similar containers; for any material (excluding compressed or liquefied gas), of iron or steel, capacity exceeding 300l, whether or not lined or heat insulated	7309	1,774,532
2017	Moulding boxes for metal foundry, moulding patterns, moulds for metals (excluding ingot moulds), metal carbides, glass, mineral materials, rubber or plastics	8480	1,740,076
2017	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, not laser diodes; other optical appliances and instruments n.e.c. in this chapter	9013	1,726,621
2017	Alloy steel bars, rods, shapes and sections; hollow drill bars and rods, of alloy or non-alloy steel	7228	1,687,984
2017	Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar, incorporating a calculating device; cash registers	8470	1,646,718
2017	Aircraft; parts of heading no. 8801 or 8802	8803	1,623,061
2017	Iron or non-alloy steel; bars and rods, hot-rolled, in irregularly wound coils	7213	1,597,379
2017	Nails, tacks, drawing pins, corrugated nails, staples (not those of heading no. 8305) and the like, of iron or steel, with heads of other material or not, but excluding articles with heads of copper	7317	1,595,509
2017	Machines; for making up paper pulp, paper or paperboard, including cutting machines of all kinds	8441	1,588,112
2017	Bicycles and other cycles; including delivery tricycles, not motorised	8712	1,561,996
2017	Office machines; not elsewhere classified	8472	1,544,846
2017	Copper; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7412	1,528,576
2017	Mechano-therapy, massage appliances; psychological aptitude testing apparatus; ozone, oxygen, aerosol therapy, artificial respiration or other therapeutic respiration apparatus	9019	1,516,952
2017	Electrical capacitors; fixed, variable or adjustable (pre-set)	8532	1,508,127
2017	Iron or non-alloy steel; flat-rolled products, width less than 600mm, clad, plated or coated	7212	1,486,263
2017	Sign plates, name plates, address plates and similar plates, numbers, letters and other symbols, of base metal, excluding those of heading no. 9405	8310	1,486,225
2017	Plates, sheets, strip, rods and profile shapes, of vulcanised rubber other than hard rubber	4008	1,479,642
2017	Knives and cutting blades, for machines or for mechanical appliances	8208	1,440,611
2017	Hygienic or pharmaceutical articles (including teats), of vulcanised rubber other than hard rubber, with or without fittings of hard rubber	4014	1,401,614
2017	Tools, hand; spades, shovels, mattocks, picks, hoes, forks, rakes; axes, bill hooks etc; secateurs and pruners of any kind; scythes, sickles, hay knives, hedge shears, timber wedges and other tools used in agriculture, horticulture, forestry	8201	1,399,203
2017	Vehicles; parts and accessories of heading no. 8711 to 8713	8714	1,344,147
2017	Tubes, pipes and hollow profiles, seamless, of iron (other than cast iron) or steel	7304	1,334,249
2017	Aluminium; stranded wire, cables, plaited bands and the like, (not electrically insulated)	7614	1,308,700
2017	Machine-tools; for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass	8464	1,293,875
2017	Cells and batteries; primary	8506	1,284,804
2017	Weighing machines; excluding balances of a sensitivity of 5cg or better, including weight operated counting or checking machines and weights of all kinds	8423	1,280,095
2017	Textile machinery; for extruding, drawing, texturing or cutting man-made textile materials	8444	1,252,044
2017	Baby carriages and parts thereof	8715	1,197,494
2017	Pulley tackle and hoists other than skip hoists; winches and capstans; jacks	8425	1,195,962
2017	Tools, hand; saws and blades for saws of all kinds (including slitting, slotting or toothless blades)	8202	1,174,405
2017	Chain and parts thereof, of iron or steel	7315	1,115,067
2017	Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel	7314	1,108,356
2017	Electrical insulators of any material	8546	1,098,803
2017	Electrical resistors (including rheostats and potentiometers), excluding heating resistors	8533	1,097,420
2017	Milking machines and dairy machinery	8434	1,076,764
2017	Motorcycles (including mopeds) and cycles; fitted with an auxiliary motor, with or without side-cars; side-cars	8711	1,018,576
2017	Machine-tools; parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, and tool holders for any type of tool for working in the hand	8466	1,006,658

2017	Frames and mountings; for spectacles, goggles or the like, and parts	9003	950,415
2017	Iron or steel; cast articles	7325	949,244
2017	Machinery; for manufacture or finishing felt or non-wovens in the piece or in shapes, including machinery for making felt hats, blocks for making hats	8449	943,000
2017	Optical fibres and optical fibre bundles; optical fibre cables not of heading no. 8544; sheets, plates of polarising material; lenses, prisms, mirrors, of any material; unmounted; not non optical glass	9001	935,050
2017	Binoculars, monoculars, other optical telescopes, mountings therefore; other astronomical instruments, mountings therefore, but not including instruments for radio-astronomy	9005	905,063
2017	Aluminium casks, drums, cans, boxes etc (including rigid, collapsible tubular containers), for materials other than compressed, liquefied gas, 300l capacity or less, lined, heat-insulated or not	7612	902,257
2017	Radar apparatus, radio navigational aid apparatus and radio remote control apparatus	8526	895,671
2017	Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.	8527	894,611
2017	Knives; with cutting blades, serrated or not (including pruning knives), other than knives of heading no. 8208, and blades therefore	8211	892,495
2017	Microscopes, compound optical; including those for photomicrography, cinephotomicrography or microprojection	9011	866,469
2017	Moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals, or ores; pile drivers and extractors; snow ploughs and snow blowers	8430	860,496
2017	Cutlery; spoons, forks, ladles, skimmers, cake-servers, fish-knives, butter knives, sugar tongs and similar kitchen or tableware	8215	858,178
2017	Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated	7312	855,136
2017	Shavers, hair clippers and hair removing appliances, with self-contained electric motor	8510	824,720
2017	Electric motors and generators; parts suitable for use solely or principally with the machines of heading no. 8501 or 8502	8503	807,784
2017	Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not	9025	792,386
2017	Tubing; flexible, with or without fittings, of base metal	8307	783,046
2017	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines	8453	781,052
2017	Machine-tools; n.e.c. for working metal, sintered metal carbides or cermets without removing material	8463	768,999
2017	Video recording or reproducing apparatus	8521	746,661
2017	Iron or non-alloy steel; bars and rods, n.e.c. in chapter 72	7215	746,203
2017	Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of heading no. 4001 and 4002, in primary forms or in plates, sheets or strip	4002	734,845
2017	Tools, hand; hand-operated spanners and wrenches (including torque meter wrenches but not including tap wrenches), interchangeable spanner sockets, with or without handles	8204	717,906
2017	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses, rangefinders	9015	679,756
2017	Machines and appliances for testing the hardness, strength, compressibility, elasticity of other mechanical properties of materials (e.g. metals, wood, textiles, paper, plastics)	9024	676,029
2017	Tools, hand; files, rasps, pliers (including cutting pliers), pincers, tweezers, metal cutting shears, pipe cutters, bolt croppers, perforating punches and similar	8203	666,468
2017	Engines and motors; n.e.c. (e.g. reaction engines, hydraulic power engines, pneumatic power engines)	8412	655,129
2017	Drawing, marking-out, mathematical calculating instruments (drafting machines, protractors, drawing sets etc); instruments for measuring length (e.g. measuring rods, tapes, micrometers, callipers) n.e.c.	9017	640,545
2017	Stationery; fittings for loose-leaf binders or files, letter clips, letter corners, paper clips, indexing tags and the like, staples in strips (for offices, upholstery, packaging), of base metal	8305	635,563
2017	Retreaded or used pneumatic tyres of rubber; solid or cushion tyres, tyre treads and tyre flaps, of rubber	4012	594,531
2017	Furnaces and ovens; industrial or laboratory, including incinerators, non-electric	8417	560,009
2017	Generators for producer or water gas with or without their purifiers acetylene gas generators and similar water process gas generators, with or without their purifiers	8405	531,237
2017	Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical grates, mechanical ash dischargers and similar appliances	8416	520,574
2017	Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting	8447	504,220
2017	Auxiliary plant for use with boilers of heading no. 8402 or 8403; e.g. economisers, super-heaters, soot removers, gas recoverers), condensers for steam or other vapour power units	8404	499,474
2017	Railway or tramway locomotives or rolling stock; parts thereof	8607	489,638
2017	Inner tubes, of rubber	4013	452,872
2017	Lamps; portable, electric, designed to function by their own source of energy (e.g. dry batteries, accumulators, magnetos), excluding lighting equipment of heading no. 8512	8513	444,169

2017	Boilers; steam or other vapour generating (other than central heating hot water boilers, capable also of producing low pressure steam), super heated water boilers	8402	440,251
2017	Turbo-jets, turbo-propellers and other gas turbines	8411	438,351
2017	Automatic goods-vending machines (e.g. postage stamp, cigarette, food or beverage machines), including money-changing machines	8476	427,920
2017	Cutlery; other articles, (e.g. hair clippers, butchers' or kitchen cleavers, choppers and mincing knives, paper knives), manicure or pedicure sets and instruments (including nail files)	8214	421,162
2017	Machinery; for making pulp of fibrous cellulosic material, or for making or finishing paper or paperboard	8439	420,463
2017	Derricks, cranes, including cable cranes, mobile lifting frames, straddle carriers and works trucks fitted with a crane	8426	420,088
2017	Textile machinery; spinning, doubling, twisting machines, textile reeling or winding machines and machines for preparing textile yarns for use on machines of heading no. 8446 and 8447	8445	401,854
2017	Tubes, pipes and hollow profiles, of cast iron	7303	400,785
2017	Instruments, apparatus and models, designed for demonstrational purposes (in education or exhibitions), unsuitable for other uses	9023	400,466
2017	Machinery and apparatus for soldering, brazing, welding, whether or not capable of cutting, other than those of heading no. 8515; gas-operated surface tempering machines and appliances	8468	393,921
2017	Lathes for removing metal	8458	382,849
2017	Machines; calendering or other rolling machines, for other than metal or glass and cylinders therefor	8420	378,082
2017	Machinery, auxiliary; for use with machines of heading no. 8444 to 8447 (e.g. dobbies, jacquards, automatic stop motions, shuttle changing mechanisms) parts, accessories for machines of heading no. 8444, 8447	8448	360,591
2017	Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)	8408	359,495
2017	Machining centres, unit construction machines (single station) and multi-station transfer machines for working metal	8457	352,356
2017	Electro-magnets; permanent magnets, intended permanent magnets; electro-magnetic, permanent magnet chucks, clamps, similar; electromagnetic couplings, clutches, brakes; electro-magnetic lifting heads	8505	348,222
2017	Revolution counter, production counters, taximeters, mileometers, pedometers and the like, speed indicators and tachometers, other than those of heading no. 9015, stroboscopes	9029	347,756
2017	Tin; bars, rods, profiles and wire	8003	345,645
2017	Machinery, apparatus and equipment (excluding machine-tools of heading no. 8456 to 8465) for preparing or making printing components; plates, cylinders and other printing components; lithographic stones prepared for printing purposes	8442	339,912
2017	Clocks, other, n.e.c.	9105	329,767
2017	Machine-tools; (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes of heading no. 8458	8459	326,285
2017	Turbines; hydraulic water wheels and regulators therefor	8410	316,436
2017	Stainless steel bars and rods, angles, shapes and sections	7222	312,370
2017	Machines and appliances, instruments or apparatus of chapter 90; parts and accessories n.e.c. in chapter 90	9033	310,690
2017	Copper plates, sheets and strip; of a thickness exceeding 0.15mm	7409	309,436
2017	Wire of other alloy steel	7229	308,491
2017	Containers for compressed or liquefied gas, of iron or steel	7311	280,994
2017	Compounded rubber, unvulcanised, in primary forms or in plates, sheets or strip	4005	280,636
2017	Bells, gongs and the like; non-electric, statuettes, other ornaments, photograph, picture, similar frames, mirrors, of base metal	8306	277,405
2017	Sound recording or reproducing apparatus	8519	272,747
2017	Tools, hand; two or more of heading no. 8202 to 8205, put up in sets for retail sale	8206	266,845
2017	Machinery; for preparing or making up tobacco, n.e.c. in this chapter	8478	264,716
2017	Machine-tools; for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam, or plasma arc processes; water-jet cutting machines	8456	251,221
2017	Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts or fittings for instruments or apparatus, other than such elements of glass not optically worked	9002	237,090
2017	Scissors; tailors' shears and similar shears, and blades therefore	8213	235,334
2017	Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon; with or without metal, of a kind used for electrical purposes	8545	228,785
2017	Alloy steel flat-rolled products, of a width 600mm or more	7225	225,179
2017	Zinc; articles n.e.c. in chapter 79	7907	214,994
2017	Machines; for assembling electric or electronic lamps, tubes, valves, flashbulbs, in glass envelopes, machines for manufacturing or hot working glass or glassware	8475	214,879
2017	Lead; articles n.e.c. in chapter 78	7806	207,939
2017	Iron or steel sheet piling, whether or not drilled, punched or made from assembled elements; welded angles, shapes and sections, of iron or steel	7301	201,182



2017	Tools; hand-operated mechanical appliances, weighing 10kg or less, used in the preparation, conditioning or serving of food or drink	8210	197,626
2017	Breathing appliances and gas masks; excluding protective masks having neither mechanical parts nor replaceable filters and excluding apparatus of item no. 9019.20	9020	193,131
2017	Machine-tools; for planing, shaping, slotting, broaching, gear cutting and grinding, finishing, sawing, cutting off and other tools working by removing metal, sintered metal carbides or cermets n.e.c.	8461	177,870
2017	Navigational instruments and appliances; direction finding compasses	9014	174,553
2017	Bodies; (including cabs) for the motor vehicles of heading no. 8701 to 8705	8707	170,642
2017	Aluminium; tubes and pipes	7608	166,206
2017	Nickel; unwrought	7502	159,517
2017	Reciprocating or rotary internal combustion piston engines	8407	158,757
2017	Safes; armoured or reinforced, strong-boxes, doors and safe deposit lockers for strong-rooms, cash or deed boxes and the like, of base metal	8303	154,463
2017	Carriages for disabled persons; whether or not motorised or otherwise mechanically propelled	8713	140,490
2017	Weaving machines (looms)	8446	132,242
2017	Metal-rolling mills and rolls therefor	8455	132,036
2017	Machine-tools; for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, sintered metal carbides or cermets by means of grinding stones, abrasives or polishing products	8460	130,631
2017	Photographic (including cinematographic) laboratory apparatus and equipment, n.e.c. in chapter 90; negatoscopes; projection screens	9010	129,150
2017	Ion-exchangers; based on polymers of heading no. 3901 to 3913, in primary forms	3914	125,835
2017	Wrist-watches, pocket-watches, stop-watches and other watches; with case of precious metal or of metal clad with precious metal	9101	124,600
2017	Silicones in primary forms	3910	124,447
2017	Signalling, safety or traffic control equipment; for railways, tramways, roads, inland waterways, parking facilities, port installations, airfields, excluding those of heading no. 8608	8530	120,954
2017	Zinc; bars, rods, profiles and wire	7904	110,499
2017	Yachts and other vessels; for pleasure or sports, rowing boats and canoes	8903	108,290
2017	Aluminium wire	7605	106,696
2017	Titanium; articles thereof, including waste and scrap	8108	99,961
2017	Aluminium; tube or pipe fittings (e.g. couplings, elbows, sleeves)	7609	99,073
2017	Natural polymers (e.g. alginic acid) and modified natural polymers (e.g. hardened proteins, chemical derivatives of natural rubber), n.e.c. or included, in primary forms	3913	94,673
2017	Copper, nails, tacks, drawing pins, staples (not those of heading no. 8305) and the like, of copper or iron or steel with heads of copper; screws bolts, nuts, screws hooks, rivets, cotters, washers	7415	92,178
2017	Tools; plates, sticks, tips and the like for tools, unmounted, of sintered metal carbides or cermets	8209	89,155
2017	Aircraft n.e.c. in heading no. 8801 (e.g. helicopters, aeroplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles	8802	88,934
2017	Containers; (including containers for transport of fluids) specially designed and equipped for carriage by one or more modes of transport	8609	84,297
2017	Copper; articles thereof n.e.c. in chapter 74	7419	83,748
2017	Watch straps, watch bands, watch bracelets and parts thereof	9113	83,144
2017	Copper; table, kitchen or other household articles and parts thereof; pot scourers, scouring, polishing pads, gloves and the like; sanitary ware and parts thereof	7418	82,492
2017	Cameras, photographic (excluding cinematographic); photographic flashlight apparatus and flashbulbs other than discharge lamps of heading no. 8539	9006	82,241
2017	Aluminium; unwrought	7601	82,093
2017	Polyamides in primary forms	3908	81,954
2017	Book-binding machinery; including book-sewing machines	8440	80,031
2017	Stainless steel; flat-rolled products of width less than 600mm	7220	79,041
2017	Ferro-alloys	7202	77,650
2017	Petroleum resins, coumarone-indene resins, polyterpenes, polysulphides, polysulphones and similar products of chemical synthesis n.e.c. in chapter 39, in primary forms	3911	74,986
2017	Balances; of a sensitivity of 5cg or better, with or without weights	9016	71,548
2017	Office equipment; filing cabinets, card-index cabinets, paper trays and rests, pen trays, office-stamp stands and the like, of base metal, other than office furniture of heading no. 9403	8304	68,007
2017	Copper; bars, rods and profiles	7407	66,735
2017	Machinery parts; not containing electrical connectors, insulators, coils, contacts or other electrical features, n.e.c. in this chapter	8487	51,845
2017	Sewing and knitting needles, bodkins, crochet hooks, embroidery stilettes and similar articles, for use in the hand, of iron or steel; safety pins and other pins of iron or steel, not elsewhere specified or included	7319	51,180
2017	Nickel; articles thereof n.e.c. in chapter 75	7508	50,956

2017	Railway or tramway track constructions of iron or steel; rails, check and track rails, switch blades, crossing frogs, point rods, sleepers, fish-plates, chair wedges, sole plates, bedplates, ties and the like	7302	50,501
2017	Nickel; bars, rods, profiles and wire	7505	45,954
2017	Time of day recording apparatus and apparatus for measuring, recording or otherwise indicating intervals of time, with clock, watch movement or synchronous motor	9106	45,721
2017	Zinc; plates, sheets, strip and foil	7905	45,614
2017	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not and loosely twisted double wire, of a kind used for fencing, of iron or steel	7313	43,645
2017	Railway or tramway track fixtures and fittings; mechanical (including electro-mechanical) signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields; parts thereof	8608	36,473
2017	Works trucks, self-propelled, (not fitted with lifting or handling equipment), for factories, warehouses etc, for short distance transport of goods, tractors used on railway station platforms; parts thereof	8709	34,143
2017	Copper; stranded wire, cables, plaited bands and the like, not electrically insulated	7413	33,874
2017	Cruise ships, excursion boats, ferry-boats, cargo ships, barges and similar vessels for the transport of persons or goods	8901	29,376
2017	Time switches; with clock, watch movement or synchronous motor	9107	28,472
2017	Stainless steel wire	7223	27,824
2017	Granules and powders, of pig iron, spiegeleisen, iron or steel	7205	27,380
2017	Nickel; powders and flakes	7504	27,180
2017	Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers	9008	25,424
2017	Anchors, grapnels and parts thereof, of iron or steel	7316	25,214
2017	Magnesium; articles thereof, including waste and scrap	8104	24,978
2017	Hard rubber (e.g. ebonite) in all forms, including waste and scrap; articles of hard rubber	4017	24,277
2017	Sound or video recording apparatus; parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521	8522	23,878
2017	Turbines; steam and other vapour turbines	8406	22,062
2017	Watch or clock movements, complete, unassembled or partly assembled (movement sets); incomplete watch or clock movements, assembled; rough watch or clock movements	9110	21,778
2017	Alloy steel in ingots or other primary forms, semi-finished products of other alloy steel	7224	19,714
2017	Thermionic, cold cathode or photo-cathode valves and tubes (e.g. vacuum, vapour, gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray and television camera tubes)	8540	16,861
2017	Cobalt; mattes and other intermediate products of cobalt metallurgy, cobalt and articles thereof, including waste and scrap	8105	15,172
2017	Aluminium; containers for compressed or liquefied gas	7613	13,954
2017	Pig iron and spiegeleisen in pigs, blocks or other primary forms	7201	13,716
2017	Boats, floating structures, other (for e.g. rafts, tanks, coffer-dams, landing stages, buoys and beacons)	8907	13,097
2017	Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus	9007	12,232
2017	Unvulcanised rubber in other forms (e.g. rods, tubes and profile shapes) and articles (e.g. discs and rings)	4006	11,124
2017	Cermets; articles thereof, including waste and scrap	8113	10,536
2017	Iron or non-alloy steel; semi-finished products thereof	7207	9,832
2017	Ferrous products obtained by direct reduction of iron ore and other spongy ferrous products, in lumps, pellets or the like; iron having a minimum purity of 99.94%, in lumps, pellets or similar forms	7203	9,106
2017	Vulcanised rubber thread and cord	4007	8,458
2017	Copper; powders and flakes	7406	7,488
2017	Reclaimed rubber in primary forms or in plates, sheets or strip	4003	5,949
2017	Alloy steel flat-rolled products, of a width of less than 600mm	7226	5,599
2017	Natural rubber, balata, gutta-percha, guayule, chicle and similar gums; in primary forms or in plates, sheets or strip	4001	5,201
2017	Lead; plates, sheets, strip and foil, lead powders and flakes	7804	5,018
2017	Nickel; tubes, pipes and tube or pipe fittings (e.g. couplings, elbows, sleeves)	7507	4,841
2017	Converters, ladles, ingot moulds and casting machines; of a kind used metallurgy or in metal foundries	8454	4,313
2017	Instrument panel clocks and clocks of a similar type for vehicles, aircraft, spacecraft or vessels	9104	3,732
2017	Tungsten (wolfram); articles thereof, including waste and scrap	8101	3,011
2017	Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.15mm	7410	2,154
2017	Copper; refined and copper alloys, unwrought	7403	2,147
2017	Clocks; with watch movements, excluding clocks of heading no. 9104	9103	2,146

2017	Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 9-C to this Chapter	8486	1,640
2017	Waste, parings and scrap, of plastics	3915	1,406
2017	Clock movements; complete and assembled	9109	1,395
2017	Iron and non-alloy steel in ingots or other primary forms (excluding iron of heading no. 7203)	7206	1,352
2017	Parachutes (including dirigible parachutes and paragliders) and rotochutes; parts thereof and accessories thereto	8804	1,150
2017	Bismuth; articles thereof, including waste and scrap	8106	970
2017	Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium; and articles of these metals, including waste and scrap	8112	909
2017	Clock or watch parts; n.e.c. in chapter 91	9114	794
2017	Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, n.e.c. or included elsewhere in chapter 85	8548	668
2017	Zinc; dust, powders and flakes	7903	652
2017	Watch movements; complete and assembled	9108	398
2017	Tin; articles n.e.c. in chapter 80	8007	253
2017	Aluminium; powders and flakes	7603	235
2017	Molybdenum; articles thereof, including waste and scrap	8102	204
2017	Tin; unwrought	8001	172
2017	Watch cases and parts thereof	9111	42
2017	Nickel; plates, sheets, strip and foil	7506	12