# 2022 Global Automobile Production and Model Comparison

# 2022全球汽車生產及車型比較

Automobile production is one of the reference indicators for evaluating market development momentum, and it is also an important basis for predicting future demand for automotive fasteners and components. In addition, in recent years, the research and development focus of the world's major automakers has gradually moved towards electrification and modularization, which has led to changes in the market's demand for fasteners and demand types. This has also made many fastener manufacturers who focus on the development of automotive fasteners start to seriously think about whether the advent of the electric vehicle era will completely rewrite the layout of the fastener industry. In the following, the author will lead readers to have a glimpse of the current status and future of the automotive industry from the total output of automobiles in major countries around the world and the changes and growth in the output of various mainstream models (including passenger cars, light commercial vehicles, heavy trucks and heavy buses) in each country.

#### **Comprehensive Output**

First of all, judging from the latest data released by the International Organization of Motor Vehicle Manufacturers, OICA (see **Table 1**), global automobile production seems to have maintained a steady growth in the past three years despite the impact of major environmental factors such as the epidemic. From approximately 77.65 million vehicles in 2020, approximately 80.2 million vehicles in 2021, and a substantial increase to approximately 85.01 million vehicles in 2022, an increase of 6% year-on-year. Analyzed by continent, the automobile production in the Asia-Pacific region ranks

by Gang Hao Chang, Vice Editor-in-Chief of Fastener World

first in the world, reaching 50.02 million vehicles in 2022, followed by the Americas with 17.75 million vehicles, and Europe with 16.21 million vehicles. The total production of Europe, America and Asia alone accounts for more than 98% of the world. In the African region, due to the small scale of the automobile manufacturing industry, it only maintains about 1 million vehicles per year.

The top five auto-producing countries in the Asia-Pacific region are: China, Japan, India, South Korea, and **Thailand.** China's record of 27 million vehicles accounts for more than half of the region's share and is growing every year. Japan's sound automobile manufacturing chain will continue to keep it in second place, reaching nearly 8 million vehicles in 2022. It is worth noting that in 2020, South Korea briefly surpassed India to become the third largest automobile producer in the region, but it was overtaken by India to rank fourth in the following two years. India currently ranks third with approximately 5.45 million vehicles. South Korea's production scale is roughly maintained at around 3.5-4 million vehicles. Thailand's production also shows that it is picking up year by year, reaching 1.88 million in 2022. If the market economy gradually improves, it is expected to return to the level of 2 million in 2023.

The top five producing countries in the Americas are, in that order: the United States, Mexico, Brazil, Canada, and Argentina. The United States accounted for more than 56% of the total production in the Americas,

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All Vehicles Units	2019	2020	2021	2022	Variation 2022/2019	Variation 2022/2020	Variation 2022/2021
Europe	21,531,339	16,904,429	16,338,165	16,216,888			
European Union 27 Countries + UK		13,781,659	13,129,583	13,801,210	-23%	0%	5%
Germany, Cars and LCV Only	4,947,316	3,742,570	3,308,692	3,677,820	-26%	-2%	11%
Spain	2,822,632	2,268,185	2,098,133	2,219,462	-21%	-2%	6%
France, Cars and LCV Only	2,172,515	1,315,997	1,352,226	1,383,173	-36%	5%	2%
Czech Republic	1,433,961	1,159,151	1,111,432	1,224,456	-15%	6%	10%
Slovakia	1,107,902	990,598	1,030,000	1,000,000	-10%	1%	-3%
United Kingdom	1,381,405	987,044	932,488	876,614	-37%	-11%	-6%
Italy	915,291	777,057	797,243	796,394	-13%	3%	0%
Romania	490,412	438,107	420,755	509,465	4%	16%	21%
Poland	649,864	451,382	439,421	483,840	-26%	7%	10%
Hungary	498,158	406,497	416,725	441,729	-11%	9%	6%
Portugal	345,688	264,236	289,954	322,404	-7%	22%	11%
Belgium	285,797	267,293	261,038	276,554	-3%	4%	6%
Sweden, Yearly Only	279,000	249,000	258,023	238,955	-14%	-4%	-7%
Austria	179,400	125,000	136,700	107,500	-40%	-14%	-21%
	176,113	125,000	107,021	107,500	-40%	-14 %	-21%
Netherlands, Yearly Only							
Finland, Cars Only	114,785	86,270	85,934	73,044	-36%	-15%	-15%
Slovenia	199,114	141,714	95,797	68,130	-66%	-52%	-29%
Serbia	35,120	23,375	21,263	4,498	-87%	-81%	-79%
CIS (Excluding Belarus)	2,056,631	1,801,527	1,911,188	1,058,532	<b>-49</b> %	-41%	-45%
Belarus	30,494	31,273	29,891	N/A			
Russia	1,720,487	1,435,551	1,567,007	608,460	-65%	-58%	-61%
Uzbekistan	277,967	284,885	242,104	333,569	20%	17%	38%
Kazakhstan	49,400	74,831	92,417	112,540	128%	50%	22%
Azerbaijan	2,523	2,058	2,318	2,473	-2%	20%	7%
Ukraine	7,266	4,951	8,153	1,490	-80%	-70%	-82%
Turkey	1,461,244	1,297,878	1,276,140	1,352,648	-7%	4%	6%
America	20,160,401	15,692,927	16,190,835	17,756,263	-12%	13%	10%
NAFTA	16,822,606	13,374,404	13,467,065	14,798,146	-12%	11%	10%
USA	10,892,884	8,821,026	9,157,205	10,060,339	-8%	14%	10%
Mexico	4,013,137	3,177,251	3,194,858	3,509,072	-13%	10%	10%
Canada	1,916,585	1,376,127	1,115,002	1,228,735	-36%	-11%	10%
South America	3,337,795	2,318,523	2,723,770	2,958,117	-11%	28%	9%
Brazil	2,944,988	2,014,055	2,248,253	2,369,769	-20%	18%	5%
Argentina, Cars and LCV Only	314,787	257,187	434,753	536,893	71%	109%	24%
Colombia	78,020	47,281	40,764	51,455	-34%	9%	26%
Asia-Oceania	49,333,841	44,276,549	46,768,800	50,020,793	1%	13%	7%
China	25,750,650	25,225,242	26,121,712	27,020,615	5%	7%	3%
Japan	9,684,507	8,067,943	7,836,908	7,835,519	-19%	-3%	0%
India	4,524,366	3,381,819	4,399,112	5,456,857	21%	61%	24%
South Korea	3,950,614	3,506,774	3,462,404	3,757,049	-5%	7%	9%
Thailand	2,013,710	1,427,074	1,685,705	1,883,515	-7%	32%	12%
Indonesia	1,286,848	690,176	1,121,967	1,470,146	14%	113%	31%
Iran, Yearly Only	821,060	880,997	894,298	1,064,215	30%	21%	19%
Malaysia	571,632	485,186	481,651	702,275	23%	45%	46%
Taiwan	251,304	245,615	265,320	261,263	4%	43% 6%	-2%
Pakistan	186,751	117,375	238,702	235,454	26%	101%	-2%
Vietnam, Yearly Only	176,203	165,568	167,799	232,410	32%	40%	39%
Philippines, Yearly Only	95,094	67,297	85,874	92,223	-3%	37%	7%
Australia, Yearly Only	5,606	4,730	5,391	6,077	8%	29%	13%
Myanmar, Yearly Only	15,496	10,753	1,957	3,175	-80%	-71%	62%
Africa (Excluding Egypt)	1,095,151	776,247	907,302	1,022,783	<b>-7</b> %	32%	13%
Egypt, Yearly Only	18,500	23,754	N/A	N/A		-	
South Africa	631,921	447,213	499,087	555,889	-12%	24%	11%
Morocco	403,218	328,280	403,007	464,864	15%	42%	15%
Algeria	60,012	754	5,208	2,773	-95%	268%	-47%
Total	92,120,732	77,650,152	80,205,102	85,016,728	-8%	10%	<b>6%</b>

#### Table 1. World Motor Vehicle Production By Country/Region

Estimate / N/A : Not Available / Source:OICA

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amounting to 10.06 million vehicles. Mexico, which ranks second, also has 3.5 million vehicles, and Brazil also has 2.37 million vehicles. It can be observed that the focus of car production in North America is still dominated by the United States and Mexico, and Brazil's position in car manufacturing in South America remains unshakable. The data also shows that compared with 2021, the automobile production in the United States, Mexico and Canada has a significant growth of about 10%. Regardless of whether it is North America or South America, its automobile production has shown a trend of increase year by year in the past three years. Originally, the Americas region was the third largest automobile production region in the world, but it successfully overtook Europe to be promoted to second place last year.

The top five producing countries in Europe (including the UK) are: Germany, Spain, France, Czech Republic and Slovenia. Germany, which ranks first, had 3.67 million vehicles in 2022.

Although it is lower than 2020, it is still higher than 2021. Spain, which ranks second, also had more than 2 million vehicles in 2022. France, the Czech Republic and Slovenia also roughly maintained the level of 1 million vehicles. Except for several typical automobile production countries in Western Europe, it can be seen that the development of the automobile manufacturing industry in Central and Eastern Europe can be described as blooming everywhere, and there is a trend of gradually catching up from behind. For car manufacturers, the Czech Republic, Slovakia, Romania, Poland, Hungary and Portugal are all attractive investments. Especially in Romania, Poland and Portugal, their performance in 2022 increased by 21%, 10% and 11% respectively compared to 2021. In addition, if Turkey is also counted in Europe, there is also a production scale of about 1.3 million vehicles, which can also set off a certain influence in the European auto supply chain.

The main producing countries in Russia and Central Asia are: Russia, Uzbekistan, Kazakhstan, Belarus and Ukraine. In the past, Russia's average annual production volume was about 1.5 million vehicles, which shrank sharply to 608,000 vehicles in 2022, which may be related to the factors of international economic sanctions and the embargo of raw materials from Western countries. On the contrary, although the production scale of Uzbekistan and Kazakhstan is not large compared with other countries, the production in 2022 showed a significant growth of 38% and 22% respectively compared with 2021. The automobile industries in Belarus, Ukraine, and Azerbaijan are relatively underdeveloped in terms of data, with only a few thousand or tens of thousands of vehicles.

On the whole, if you don't look at the African part (too small), the car production in the Americas has the most significant growth year-on-year, reaching 10%. The Asia-Pacific region followed closely behind, also growing by 7%. The European region is roughly the same as in 2021, with only a slight decrease of 1% (if you only look at the part of the EU 27 + the United Kingdom, there will also be a 5% growth).

## **Passenger Cars**



Passenger cars are the mainstream purchases of general car consumers, and global passenger car production has grown year by year in the past three years. Passenger car production in 2022 increased by 8% compared to 2021 to approximately 61.59 million units, accounting for more than 72% of the total global car production. It can be seen that **passenger cars are still the largest type of automobile production** (see **Table 2**).

Benefiting from the demographic dividend in the region, about 68% of the passenger car production in the Asia-Pacific region reached 42.32 million units, accounting for 84% of the total automobile production in the Asia-Pacific region. Passenger vehicle production in the Asia-Pacific region is highly concentrated in China, Japan, India, South Korea and Indonesia, with 23.83 million, 6.56 million, 4.43 million, 3.43 million and 1.21 million vehicles respectively. In 2022, except for Japan, which experienced a 1% decline, the other five countries had a growth rate of more than 10% compared to 2021, especially Indonesia's 37% growth rate is the most obvious.

The second largest production center for passenger cars is Europe, whose production of passenger cars in 2022 reached 13.72 million units, accounting for about 84% of the total car

production in Europe. The top five passenger car producing countries in the region are Germany, Spain, Czech Republic, France and Slovakia, with 3.48 million, 1.78 million, 1.21 million, 1.01 million and 1 million vehicles respectively. Among them, Germany, France and Czech Republic all showed a performance of 10% compared with the previous year.

As for the Americas, which is currently the second largest automobile production region in the world, the production data of passenger vehicles has a very unexpected performance. The production of passenger vehicles in the Americas region in 2022 was approximately 4.83 million units, accounting for less than 30% of its

#### Units Variation Variation Variation 2019 2020 2021 2022 Pessenger Cars 2022/2019 2022/2020 2022/2021 18.700.957 14.534.879 13.822.390 13,725,107 Europe -27% -6% -1% European Union 27 15.835.919 12.045.025 11.338.938 -0.2% 12.025.961 -24% 6% Countries + UK Germany 4,663,749 3,515,488 3,096,165 3.480.357 -25% -1% 12% Spain 2,248,291 1,800,664 1,662,174 1,785,432 -21% -1% 7% 1,105,223 -15% 10% Czech Republic 1,427,563 1,152,901 1,217,787 6% France 1,662,963 927,344 918,825 1,010,466 -39% 9% 10% Slovakia 1.107.902 990.598 1.030.000 1.000.000 -10% 1% -3% United Kingdom 1,303,135 920,928 859,575 775,014 -41% -16% -10% 490,412 438,107 420,755 509,465 4% 16% 21% Romania Italy 542.472 451,718 443.819 473,194 -13% 5% 7% Hungary 498.158 406.497 416.725 441.729 -11% 9% 6% Portugal 282,142 211,281 229,221 256,018 -9% 21% 12% -9% 434,700 278,900 260,800 255,100 -41% -2% Poland Sweden 279.000 249,000 258,023 238.955 -14% -4% -7% Belgium 247.020 237.057 224,180 232,100 -6% -2% 4% 109,500 107,500 -32% -2% -14% Austria 158,400 124,700 Netherlands 176,113 127,058 107,021 101,670 -42% -20% -5% Finland 114,785 86,270 85,934 73,044 -36% -15% -15% Slovenia 199,114 141,714 95,797 68,130 -66% -52% -29% -81% -79% Serbia 34,985 23,272 21,109 4,358 -88% CIS 1,847,411 1,611,539 1,679,508 883,899 -52% -45% -47% Belarus 20,427 21,295 29,891 N/A Russia 1,523,607 1,260,518 1,352,740 448,897 -71% -64% -67% 17% Uzbekistan 271,113 280,080 236,668 328,118 21% 39% Kazakhstan 44,077 64,790 80,679 103,345 135% 60% 28% Azerbaijan 2.360 1.949 2.079 2.049 -13% 5% -1% 7,342 1,490 -76% Ukraine 6,254 4,202 -65% -80% Turkey 982,642 855,043 782,835 810,889 -18% -5% 4% America 7,004,767 4,967,015 4,491,915 4,832,901 -31% -3% 8% NAFTA 4,369,893 3,219,558 2,559,194 2,699,108 -38% -16% 6% USA 2,511,711 1,924,398 1,562,717 1,751,736 -30% -9% 12% Mexico 1,396,812 967,479 708,242 658,001 -53% -32% -7% Canada 461,370 327,681 288,235 289,371 -37% -12% 0% **South America** 2,634,874 1,747,457 1,932,721 2,133,793 -19% 22% 10% Brazil 2,448,490 1,607,175 1,707,851 1,824,833 -26% 14% 7% Argentina 108,364 93,001 184,106 257,505 138% 177% 40% Colombia 78,020 47,281 40,764 51,455 -34% 9% 26% Asia-Oceania 40,650,626 35,822,949 38,188,956 42,324,447 4% 18% 11% China 21,389,833 19,994,081 21,444,743 23,836,083 11% 19% 11% Japan 8,329,130 6,960,411 6,619,245 6,566,356 -21% -6% -1% India 3,629,008 2,836,534 3,631,095 4,439,039 22% 57% 22% South Korea 3,612,587 3,211,706 3,162,727 3,438,355 -5% 7% 9% 37% Indonesia 1,045,666 551,426 889,756 1,214,250 16% 120% Iran, Yearly Only 770,000 826,210 838,251 997,519 30% 21% 19% Malaysia 534,115 457,755 446,431 650,190 22% 42% 46% Thailand 795,254 537,633 594,690 594,057 -25% 11% 0% 191,409 6% Taiwan 189,549 180,967 196,749 1% -3% Pakistan 156,623 95,504 193,991 190,555 22% 100% -2% Vietnam, Yearly Only 129.006 125,235 123,482 162,491 26% 30% 32% 57,238 37,141 46,278 41,663 -27% 12% -10% Philippines 1,519 2,480 -80% -70% Myanmar, Yearly Only 12,617 8,346 63% 0 0 Australia 0 ۵ Africa 777.220 538,723 582,814 716,195 -8% 33% 23% 18,500 23,754 N/A N/A Egypt, Yearly Only Morocco 368,543 299,753 338,339 404,742 10% 35% 20% 309,423 30% South Africa 348,665 238,216 239,267 -11% 29% 60,012 754 5,208 2,030 -97% 169% -61% Algeria 55,863,566 57,086,075 61,598,650 -8% 10% 8% Total

Table 2. World Passenger Cars Production By Country/Region

total vehicle production (17.75 million units) in the same year, which is a relatively low proportion. The top 5 passenger car producing countries are Brazil, the United States, Mexico, Canada and Argentina in order, with 1.82 million, 1.75 million, 650,000, 289,000 and 257,000 vehicles respectively. Brazil has even surpassed the United States to become the most important passenger car production center in the Americas.

## Light Commercial Vehicle



The production of light commercial vehicles is also a very important part of global automobile production. In 2022, the global production of light commercial vehicles reached 19.86 million units, an increase of 7% year-on-year, accounting for about 23% of the total global vehicle production in that year. (See **Table 3**)

Unlike passenger car production, which is mostly concentrated in the Asia-Pacific region, more than 60% of light commercial vehicle production is concentrated in the Americas (about 12.19 million units in 2022, an increase of 10% compared to 2020, and more than 87 % are concentrated in the United States and Mexico).

Production in the Asia-Pacific region also accounted for more than 26% (about 5.23 million vehicles), and



Estimate / N/A : Not Available

it was mainly concentrated in China and Thailand, with 1.84 million and 1.28 million vehicles respectively.

In contrast, the production of light commercial vehicles in Europe in 2022 was only about 2.14 million, a decrease of 2% from 2021, accounting for only about 10% of the world. Judging from the published data, the most important manufacturers of light commercial vehicles in Europe are Spain, France, Italy, Poland and Germany. The Turkish part has maintained a production scale of 400,000 to 500,000 vehicles in the past few years.

#### Heavy Truck



The total production of heavy trucks in the world reached more than 4 million units per year from 2019 to 2021, but dropped sharply by 23% to 3.3 million units in 2022, mainly due to the performance of the Asia-Pacific region (data showed that in 2022, the heavy-duty trucks in the Asia-Pacific region production fell sharply by 32% year-on-year). See Table 4.

The production of heavy trucks in the Asia-Pacific region in 2022 was 2.28 million units, accounting for nearly 70% of the total global heavy truck production in that year, with China, Japan and India as the main production centers.

The Americas is the second largest production base for heavy trucks. In 2022, the region produced a total of about 680,000 heavy trucks, accounting for about 21% of the global heavy truck production in the same year. Different from the Asia-Pacific region, the production of heavy trucks in the Americas shows

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Light Units Commercial Vehicle	2019	2020	2021	2022	Variation 2022/2019	Variation 2022/2020	Variatio 2022/202
Europe	2,524,134	2,110,169	2,181,987	2,148,379	-15%	2%	-2%
European Union 27 Countries + UK	1,953,385	1,590,962	1,605,118	1,580,918	<b>-19</b> %	-1%	-2%
Slovenia	N/A	N/A	N/A	N/A	-	-	-
Finland	Confidential	Confidential	Confidential	Confidential	-	-	-
Netherlands	Confidential	Confidential	Confidential	Confidential	-	-	-
Sweden	Confidential	Confidential	Confidential	Confidential	-	-	-
Hungary	Confidential	Confidential	Confidential	Confidential	-	-	-
Spain	524,504	430,616	383,736	377,779	-28%	-12%	-2%
France	509,552	388,653	433,401	372,707	-27%	-4%	-14%
Italy	312,377	277,067	290,021	268,430	-14%	-3%	-7%
Poland, All CVS	207,802	166,445	173,417	223,680	8%	34%	29%
Germany	283,567	227,082	212,527	197,463	-30%	-13%	-7%
United Kingdom	57,442	51,244	55,644	80,210	40%	57%	44%
Portugal	58,141	49,855	56,372	60,649	4%	22%	8%
Serbia	126	93	145	140	11%	51%	-3%
Austria	0	0	0	0	-	-	-
Belgium Czech Republic	0	0	0	0	-	-	-
Romania	0	0	0	0	-	-	-
Slovakia	0	0	0	0	-	-	-
CIS (Only Russia)	122,749	109,468	129,776	83,813	-32%	-23%	-35%
Ukraine	136	51	43	N/A	-52 /0	-2370	-0070
Russia	122,749	109,468	129,776	83,813	-32%	-23%	-35%
Azerbaijan	0	07,400	0	00,010	- 52 /0	-2070	-0070
Belarus	0	0	0	0	-	-	_
Kazakhstan	0	0	0	0	-	-	_
Uzbekistan	0	0	0	0	_	_	-
Turkey	447,874	409,646	446,948	483,508	8%	18%	8%
America	12,444,040	10,225,219	11,055,411	12,197,931	-2%	19%	10%
NAFTA	11,882,266	9,763,494	10,442,053	11,567,376	-3%	19%	11%
USA	8,036,106	6,656,572	7,307,551	7,988,565	-1%	20%	9%
Mexico	2,414,256	2,072,699	2,320,239	2,650,345	10%	28%	14%
Canada	1,431,904	1,034,223	814,263	928,466	-35%	-10%	14%
South America	561,774	461,725	613,358	630,555	12%	37%	3%
Colombia	N/A	N/A	N/A	N/A	-	-	-
Brazil	355,351	297,539	362,711	351,167	-1%	18%	-3%
Argentina	206,423	164,186	250,647	279,388	35%	70%	12%
Asia-Oceania	5,255,384	4,668,333	5,108,390	5,238,222	0%	12%	3%
China					00/	-14%	-15%
	2,002,284	2,151,347	2,174,102	1,846,256	-8%		
Thailand, All Cvs	1,218,456	889,441	1,091,015	1,289,458	6%	45%	18%
Thailand, All Cvs Japan	1,218,456 839,582	889,441 697,423	1,091,015 708,524	1,289,458 752,774	6% -10%	45% 8%	6%
Thailand, All Cvs Japan India	1,218,456 839,582 542,860	889,441 697,423 385,691	1,091,015 708,524 486,911	1,289,458 752,774 617,398	6% -10% 14%	45% 8% 60%	6% 27%
Thailand, All Cvs Japan India South Korea	1,218,456 839,582 542,860 258,534	889,441 697,423 385,691 229,040	1,091,015 708,524 486,911 227,673	1,289,458 752,774 617,398 245,547	6% -10% 14% -5%	45% 8% 60% 7%	6% 27% 8%
Thailand, All Cvs Japan India South Korea Indonesia	1,218,456 839,582 542,860 258,534 146,150	889,441 697,423 385,691 229,040 95,295	1,091,015 708,524 486,911 227,673 157,890	1,289,458 752,774 617,398 245,547 160,171	6% -10% 14% -5% 10%	45% 8% 60% 7% 68%	6% 27% 8% 1%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam	1,218,456 839,582 542,860 258,534 146,150 47,197	889,441 697,423 385,691 229,040 95,295 40,333	1,091,015 708,524 486,911 227,673 157,890 44,317	1,289,458 752,774 617,398 245,547 160,171 69,919	6% -10% 14% -5% 10% 48%	45% 8% 60% 7% 68% 73%	6% 27% 8% 1% 58%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896	889,441 697,423 385,691 229,040 95,295 40,333 57,362	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758	6% -10% 14% -5% 10% 48% 9%	45% 8% 60% 7% 68% 73% 6%	6% 27% 8% 1% 58% 3%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295	6% -10% 14% -5% 10% 48% 9% 31%	45% 8% 60% 7% 68% 73% 6% 22%	6% 27% 8% 1% 58% 3% 19%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085	6% -10% 14% -5% 10% 48% 9% 31% 39%	45% 8% 60% 7% 68% 73% 6% 22% 90%	6% 27% 8% 1% 58% 3% 19% 48%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560	6% -10% 14% -5% 10% 48% 9% 31% 39% 34%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68%	6% 27% 8% 1% 58% 3% 19% 48% 28%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695	6% -10% 14% -5% 10% 48% 9% 31% 39% 34%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68%	6% 27% 8% 1% 58% 3% 19% 48% 28%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695 0	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% -	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% -	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% -
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia Africa	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0 <b>289,092</b>	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0 <b>214,218</b>	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0 <b>296,834</b>	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695 0 275,594	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% - - 5%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% - 29%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% - -7%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia Africa South Africa	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0 <b>289,092</b> 254,417	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0 <b>214,218</b> 185,691	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0 <b>296,834</b> 232,166	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 52,085 50,560 39,306 695 0 275,594 215,472	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% - - 5% -15%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% - 29% 16%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% - <b>-7%</b>
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia Africa South Africa Morocco	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0 <b>289,092</b> 254,417 34,675	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0 <b>214,218</b> 185,691 28,527	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0 <b>296,834</b> 232,166 64,668	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695 0 <b>275,594</b> 215,472 60,122	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% - - 5%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% - 29%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% - -7%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia Africa South Africa Morocco Algeria	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0 <b>289,092</b> 254,417 34,675 N/A	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0 <b>214,218</b> 185,691 28,527 N/A	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0 <b>296,834</b> 232,166 64,668 0	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695 0 <b>275,594</b> 215,472 60,122 743	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% - - 5% -15%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% - 29% 16%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% - -7%
Thailand, All Cvs Japan India South Korea Indonesia Vietnam Taiwan Iran, Yearly Only Malaysia, All CVs Philippines, All CVs Pakistan Myanmar Australia Africa South Africa Morocco	1,218,456 839,582 542,860 258,534 146,150 47,197 55,896 40,800 37,517 37,856 25,373 2,879 0 <b>289,092</b> 254,417 34,675	889,441 697,423 385,691 229,040 95,295 40,333 57,362 43,778 27,431 30,156 18,629 2,407 0 <b>214,218</b> 185,691 28,527	1,091,015 708,524 486,911 227,673 157,890 44,317 58,791 44,785 35,220 39,596 39,128 438 0 <b>296,834</b> 232,166 64,668	1,289,458 752,774 617,398 245,547 160,171 69,919 60,758 53,295 52,085 50,560 39,306 695 0 <b>275,594</b> 215,472 60,122	6% -10% 14% -5% 10% 48% 9% 31% 39% 34% 55% -76% - - 5% -15%	45% 8% 60% 7% 68% 73% 6% 22% 90% 68% 111% -71% - 29% 16%	6% 27% 8% 1% 58% 3% 19% 48% 28% 1% 59% - -7%

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Table 4. World Heavy Truck Production By Country/Region									
Units Heavy Truck	2019	2020	2021	2022	Variation 2022/2019	Variation 2022/2020	Variation		
Europe	263,013	220,927	298,553	305,319	16%	38%	2%		
European Union 27	174,018	133,062	174,154	182,675	5%	37%	5%		
Countries + UK	,				J 70	3770	576		
Austria	21,000	15,500	12,000	N/A	-	-	-		
Slovenia	N/A	N/A	N/A	N/A	-	-	-		
Finland	Confidential				-	-	-		
France	Confidential		Confidential	Confidential	-	-	-		
Germany	Confidential Confidential	Confidential	Confidential	Confidential	-	-	-		
Netherlands Sweden	Confidential	Confidential Confidential	Confidential Confidential	Confidential Confidential	-	-	-		
Spain	49,837	36,905	52,223	56,251	13%	52%	- 8%		
Italy	60,294	47,937	63,167	54,499	-10%	14%	-14%		
Belgium	38,434	30,070	36,785	44,357	15%	48%	21%		
United Kingdom	18,883	13,931	16,379	20,507	9%	40 %	25%		
Portugal	5,389	3,039	4,338	5,714	6%	88%	32%		
Czech Republic	1,181	1,180	1,262	1,347	14%	14%	7%		
Hungary	0	0	0	0	-	-	-		
Poland, See LCV	0	0	0	0	-	-	-		
Romania	0	0	0	0	-	-	-		
Slovakia	0	0	0	0	-	-	-		
Serbia	9	10	9	0	-	-	-		
CIS	69,992	64,615	85,825	76,074	<b>9</b> %	18%	-11%		
Belarus	8,798	8,629	N/A	N/A	-	-	-		
Ukraine	Confidential	Confidential	Confidential	Confidential	-	-	-		
Russia	60,262	52,103	70,506	63,723	6%	22%	-10%		
Kazakhstan, All CVs	4,247	8,240	10,647	7,833	84%	-5%	-26%		
Uzbekistan	5,320	4,163	4,433	4,094	-23%	-2%	-8%		
Azerbaijan	163	109	239	424	160%	289%	77%		
Turkey	19,003	23,250	38,574	46,570	145%	100%	21%		
America	677,275	479,180	38,574 621,087	46,570 688,717	145% 2%	100% 44%	21% 11%		
America NAFTA	677,275 563,799	479,180 388,244	38,574 621,087 462,277	46,570 688,717 526,725	145% 2% -7%	100% 44% 36%	21% 11% 14%		
America NAFTA USA, Including Buses	677,275 563,799 345,067	<b>479,180</b> <b>388,244</b> 240,056	<b>38,574</b> <b>621,087</b> <b>462,277</b> 286,937	<b>46,570</b> <b>688,717</b> <b>526,725</b> 320,038	<b>145%</b> <b>2%</b> -7%	100% 44% 36% 33%	<b>21%</b> <b>11%</b> <b>14%</b> 12%		
America NAFTA USA, Including Buses Mexico	<b>677,275</b> <b>563,799</b> 345,067 195,421	<b>479,180</b> <b>388,244</b> 240,056 133,965	<b>38,574</b> <b>621,087</b> <b>462,277</b> 286,937 162,836	<b>46,570</b> <b>688,717</b> <b>526,725</b> 320,038 195,789	<b>145%</b> <b>2%</b> -7% 0%	100% 44% 36% 33% 46%	<b>21%</b> <b>11%</b> <b>14%</b> 12% 20%		
America NAFTA USA, Including Buses Mexico Canada	677,275 563,799 345,067 195,421 23,311	<b>479,180</b> <b>388,244</b> 240,056 133,965 14,223	38,574 621,087 462,277 286,937 162,836 12,504	<b>46,570</b> <b>688,717</b> <b>526,725</b> 320,038 195,789 10,898	<b>145%</b> <b>2%</b> -7% 0% -53%	<b>100%</b> <b>44%</b> <b>36%</b> 33% 46% -23%	21% 11% 14% 12% 20% -13%		
America NAFTA USA, Including Buses Mexico Canada South America	677,275 563,799 345,067 195,421 23,311 113,476	479,180 388,244 240,056 133,965 14,223 90,936	38,574 621,087 462,277 286,937 162,836 12,504 158,810	46,570 688,717 526,725 320,038 195,789 10,898 161,992	<b>145%</b> <b>2%</b> -7% 0%	100% 44% 36% 33% 46%	<b>21%</b> <b>11%</b> <b>14%</b> 12% 20%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina	677,275 563,799 345,067 195,421 23,311 113,476 Confidential	479,180 388,244 240,056 133,965 14,223 90,936 Confidential	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential	145% 2% -7% -7% 0% -53% 43%	100% 44% 36% 33% 46% -23% 78% -	21% 11% 14% 12% 20% -13% 2%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992	145%           2%           -7%           0%           -53%           43%           -           43%	100% 44% 36% 33% 46% -23% 78% - 78%	21% 11% 12% 20% -13% 2% - 2%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A	145% 2% -7% 0% -53% 43% - 43% -	100% 44% 36% 33% 46% -23% 78% - 78% -	21% 11% 12% 20% -13% 2% - 2% -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468	145%           2%           -7%           0%           -53%           43%           -           43%	100% 44% 36% 33% 46% -23% 78% - 78%	21% 11% 12% 20% -13% 2% - 2%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A	145% 2% -7% 0% -53% 43% - 43% -	100% 44% 33% 46% -23% 78% - 78% - - 78% - - 37% -	21% 11% 12% 20% -13% 2% - 2% -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A	145% 2% -7% 0% -53% 43% - - 43% - - - 28% - -	100% 44% 33% 46% -23% 78% - 78% - - 78% - - - 37% - - - -	21% 11% 12% 20% -13% 2% - 2% - - 2% - - - - - - - - - - - - -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A N/A	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A N/A	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A N/A	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A	145% 2% -7% 0% -53% 43% - - 43% - - - 28% - - -	100% 44% 33% 46% -23% 78% - 78% - - 78% - - 37% - - - - - - -	21% 11% 14% 20% -13% 2% - 2% 2%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A N/A 2,217,847	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A N/A 2,976,459	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A N/A 2,408,249	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268	145% 2% -7% 0% -53% 43% - - 43% - - - 28% - - - - - 44%	100% 44% 36% 33% 46% -23% 78% - 78% - 78% - - - 37% - - - - 58%	21% 11% 12% 20% -13% 2% - 2% - - 2% - - - 2% - - - - - - - - - - - - -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A N/A 2,217,847 506,541	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A N/A 2,976,459 405,451	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A N/A 2,408,249 506,938	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809	145% 2% -7% 0% -53% 43% - - 43% - - - 28% - - - - 44% 1%	100% 44% 36% 33% 46% -23% 78% - 78% - 78% - - 37% - - 58% 27%	21% 11% 12% 20% -13% 2% - 2% - - 2% - - 2% - - 2% - - - 2% - - - - - - - - - - - - -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A 2,217,847 506,541 254,165	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A N/A 2,976,459 405,451 122,576	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A N/A 2,408,249 506,938 246,407	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369	145% 2% -7% 0% -53% 43% - 43% - - 28% - - - -44% 1% 29%	100% 44% 36% 33% -23% -23% - 78% - 78% - - - 37% - - - 58% 27% 167%	21% 11% 12% 20% -13% 2% - 2% - - 2% - - 2% - - - 2% - - - - - - - - - - - - -		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A N/A 2,217,847 506,541 254,165 91,757	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A 2,976,459 405,451 122,576 41,379	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A 2,408,249 506,938 246,407 72,983	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369 93,679	145% 2% -7% 0% -53% 43% - 43% - - - 28% - - - - 44% 1% 29% 2%	100% 44% 36% 33% -23% -23% - 78% - - 78% - - - - 58% 27% 167% 126%	21% 11% 12% 20% -13% 2% - 2% - - 2% - - - - - - - - - - - - -		
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America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia South Korea Iran Taiwan	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A 3,160,164 N/A 2,217,847 506,541 254,165 91,757 64,758 9,600 5,859	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A 2,976,459 405,451 122,576 41,379 55,583 10,301 7,286	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A 3,331,219 N/A 2,408,249 506,938 246,407 72,983 65,895 10,538 9,780	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369 93,679 64,896 12,540 9,096	145% 2% -7% 0% -53% 43% - 43% - - 43% - - - 28% - - - 44% 1% 29% 2% 0% 31% 55%	100% 44% 36% 33% 46% -23% 78% - 78% - 78% - 78% - - 78% - - 78% - - 78% - - 78% - 167% 126% 17% 22% 25%	21% 11% 12% 20% -13% 2% - 2% - 2% - 2% - 2% - 2% - 2% - 2%		
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America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia South Korea Iran Taiwan Australia, Yearly Only Pakistan Malaysia Myanmar Algeria	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A 3,160,164 N/A 2,217,847 506,541 254,165 91,757 64,758 9,600 5,859 5,606 4,031 0 0	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A 3,626,520 N/A N/A 2,976,459 405,451 122,576 41,379 55,583 10,301 7,286 4,730 2,755 0 0	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A 2,408,249 506,938 246,407 72,983 65,895 10,538 9,780 5,391 5,038 0 0	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A N/A 1,249,268 512,809 327,369 93,679 64,896 12,540 9,096 6,077 4,734 0 0	145% 2% -7% 0% -53% 43% - 43% - - 28% - - -28% - - - 28% 0% 29% 2% 0% 31% 55% 8% 17% - - - - - - - - - - - - -	100% 44% 36% 33% 46% -23% 78% - 78% - 78% - - - - - 58% 27% 167% 126% 17% 22% 25% 29% 72% - - -	21% 11% 14% 20% -30% -32%		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia South Korea Iran Taiwan Australia, Yearly Only Pakistan Malaysia Myanmar Algeria Egypt	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A 3,160,164 N/A 2,217,847 506,541 254,165 91,757 64,758 9,600 5,859 5,606 4,031 0 0 27,840 N/A 0	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A 2,976,459 405,451 122,576 41,379 55,583 10,301 7,286 4,730 2,755 0 0 22,567 N/A 0	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A 2,408,249 506,938 246,407 72,983 65,895 10,538 9,780 5,391 5,038 0 0 0 26,969 N/A 0	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369 93,679 64,896 12,540 9,096 6,077 4,734 0 0 30,249 N/A 0	145% 2% -7% 0% -53% 43% - 43% - - 28% - - - 28% - - - 28% 2% 0% 31% 55% 8% 17% - - 9%	100% 44% 36% 33% -23% 78% - 78% - - 78% - - - 58% 27% 167% 126% 17% 22% 25% 29% 72% - - 34%	21% 11% 14% 20% -3% -3% -3% -3% -3% -3% -3% -3% -3% -3		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia South Korea Iran Taiwan Australia, Yearly Only Pakistan Malaysia Myanmar Algeria Egypt Morocco	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A 3,160,164 N/A 2,217,847 506,541 254,165 91,757 64,758 9,600 5,859 5,606 4,031 0 0 27,840 N/A 0 0 0 27,840 N/A	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A 2,976,459 405,451 122,576 41,379 55,583 10,301 7,286 4,730 2,755 0 0 22,567 N/A 0 0 22,567	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A 3,331,219 N/A 2,408,249 506,938 246,407 72,983 65,895 10,538 9,780 5,391 5,038 9,780 5,391 5,038 0 0 0 26,969 N/A 0 0 N/A	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369 93,679 64,896 12,540 9,096 64,077 4,734 0 0 30,249 N/A 0 0 30,249 N/A	145% 2% -7% 0% -53% 43% - 43% - - 28% - - - 28% - - - 44% 1% 29% 2% 0% 31% 55% 8% 17% - - - 9% - - - - - - - - - - - - -	100% 44% 36% 33% -23% 78% - - 78% - - - 78% - - - - 58% 27% 167% 126% 17% 22% 25% 225% 29% 72% - - - 34% - - - - - - - - - - - - - - - - - - -	21% 11% 14% 20% -3% -3% -3% -3% -3% -3% -3% -3% -3% -3		
America NAFTA USA, Including Buses Mexico Canada South America Argentina Brazil Colombia Asia-Oceania Philippines Thailand Vietnam China Japan India Indonesia South Korea Iran Taiwan Australia, Yearly Only Pakistan Malaysia Myanmar Algeria Egypt	677,275 563,799 345,067 195,421 23,311 113,476 Confidential 113,476 N/A 3,160,164 N/A 3,160,164 N/A 2,217,847 506,541 254,165 91,757 64,758 9,600 5,859 5,606 4,031 0 0 27,840 N/A 0	479,180 388,244 240,056 133,965 14,223 90,936 Confidential 90,936 N/A 3,626,520 N/A N/A 2,976,459 405,451 122,576 41,379 55,583 10,301 7,286 4,730 2,755 0 0 22,567 N/A 0	38,574 621,087 462,277 286,937 162,836 12,504 158,810 Confidential 158,810 N/A 3,331,219 N/A N/A 2,408,249 506,938 246,407 72,983 65,895 10,538 9,780 5,391 5,038 0 0 0 26,969 N/A 0	46,570 688,717 526,725 320,038 195,789 10,898 161,992 Confidential 161,992 N/A 2,280,468 N/A N/A N/A 1,249,268 512,809 327,369 93,679 64,896 12,540 9,096 6,077 4,734 0 0 30,249 N/A 0	145% 2% -7% 0% -53% 43% - 43% - - 28% - - - 44% 1% 29% 2% 0% 31% 55% 8% 17% - - 9% - -	100% 44% 36% 33% -23% 78% - - 78% - - - 78% - - - - 58% 27% 167% 126% 17% 22% 25% 25% 29% 72% - - - 34% - -	21% 11% 14% 12% 20% -13% 2% - 2%		

a trend of annual growth. After a substantial growth of 44% in 2021, it will continue to grow by 11% by 2022. The United States, Mexico and Brazil are the top three major producers of heavy trucks in the region.

The production scale of heavy trucks in Europe is less than half of that in the Americas. In 2022. the production volume of heavy trucks in this region was about 300,000 units, a slight increase from 2021. Compared with the performance in 2020 and 2021, the growth performance of heavy truck production in Europe has a clear slowdown trend. At present, the most important heavy truck production bases in Europe are Spain, Italy, Belgium and the United Kingdom. Türkiye also has a production scale of nearly 40,000 vehicles.

#### **Heavy Buses**



Compared with the aforementioned models, the production scale of heavyduty buses is the smallest. In 2022, the global production of heavy-duty buses exceeded 250,000 units, a year-on-year increase of 28%. It also grew by 15% year-on-year before 2021 (see Table 5).

The Asia-Pacific region is the most important production base of heavy-duty buses. The output of heavy-duty buses in this region reached more than 170.000 in 2022, a substantial increase of 27% from the previous year, accounting for nearly 70% of the total global heavy-duty bus production in the same year. China and India are the main production centers.

The scale of production in the Americas and Europe

is similar, probably accounting for nearly 40,000 vehicles. It is worth noting that the production scale of heavy-duty buses in the Americas increased by 71% and 64% in 2021 and 2022, respectively. In particular, Mexico and Brazil almost cover the production of heavyduty buses in the Americas. In Europe, the Czech Republic and Poland are the main production bases for heavy-duty buses.

#### Summary

Judging from the data in the above tables, the overall global vehicle production volume has not shown a significant downward trend due to the epidemic in the past four years, but has increased year by year. This result may make many previous analysts who were pessimistic about the auto market surprised. However, on the other hand, it may also mean that the demand for cars from global consumers is still strong, which in turn will boost the production willingness of various car manufacturers. Asia (especially China), the United States, Mexico, Brazil, Western European countries and major Central and Eastern European countries will continue to play very critical roles in global automobile production (whether it is passenger cars, light commercial vehicles, heavy trucks, or heavy buses).

Hardware & Fastener Components - m.58/2023

This may also be good news for many manufacturers that focus on the production of automotive fasteners. Coupled with the continuous technological improvement of the automobile industry, if the automotive fastener industry can actively strengthen cooperation with customers in major automobile production markets to establish distribution channels, and at the same time grasp the changes and trends in the application of automotive fasteners in the future, automotive fasteners, I believe, will still be a profitmaking shortcut full of business opportunities. 

#### Table 5. World Heavy Buses Production By Country/Region

Units Heavy Buses	2019	2020	2021	2022	Variation 2022/2019	Variation 2022/2020	Variation 2022/2021
Europe	43,235	38,454	35,235	38,083	-12%	-1%	8%
European Union 27 Countries + UK	15,031	12,610	11,373	11,656	-23%	-8%	3%
Austria	N/A	N/A	N/A	N/A	-	-	-
Finland	N/A	N/A	N/A	N/A	-	-	-
Hungary	N/A	N/A	N/A	N/A	-	-	-
Slovenia	N/A	N/A	N/A	N/A	-	-	-
France	Confidential	Confidential	Confidential	Confidential	-	-	-
Germany	Confidential	Confidential	Confidential	Confidential	-	-	-
Netherlands	Confidential	Confidential	Confidential	Confidential	-	-	-
Sweden	Confidential	Confidential	Confidential	Confidential	-	-	-
Czech Republic	5,217	5,070	4,947	5,322	2%	5%	8%
Poland	7,362	6,037	5,204	5,060	-31%	-16%	-3%
United Kingdom	1,945	941	890	883	-55%	-6%	-1%
Italy	148	335	236	271	83%	-19%	15%
Belgium	343	166	73	97	-72%	-42%	33%
Portugal	16	61	23	23	44%	-62%	0%
Spain	0	0	0	0	-	-	-
Romania	0	0	0	0			-
Slovakia	0	0	0	0	-	-	-
	0	0	0		-	-	-
Serbia				0	-	-	-
CIS	16,479	15,905	16,079	14,746	-11%	-7%	-8%
Belarus	1,269	1,349	N/A	N/A	-	-	-
Ukraine	876	698	768	N/A	-	-	-
Russia	13,869	13,462	13,985	12,027	-13%	-11%	-14%
Kazakhstan	1,076	1,801	1,091	1,362	27%	-24%	25%
Uzbekistan	1,534	642	1,003	1,357	-12%	111%	35%
Azerbaijan	0	0	0	0	-	-	-
Turkey	11,725	9,939	7,783	11,681	0%	18%	50%
America	34,319	21,513	22,422	36,714	<b>7</b> %	<b>71%</b>	64%
NAFTA	6,648	3,108	3,541	4,937	-26%	<b>59</b> %	<b>39</b> %
Canada, See LCV & HCV	N/A	N/A	N/A	N/A	-	-	-
Mexico	6,648	3,108	3,541	4,937	-26%	59%	39%
USA, See LCV & HCV	0	0	0	0	-	-	-
South America	27,671	18,405	18,881	31,777	15%	73%	68%
Argentina		,	Confidential		-	-	-
Brazil	27,671	18,405	18,881	31,777	15%	73%	68%
Colombia	N/A	N/A	N/A	N/A	-	-	-
Asia-Oceania	267,667	158,747	140,234	177,657	-34%	12%	27%
Malaysia	N/A	N/A	N/A	N/A	_	-	
Thailand	N/A	N/A	N/A	N/A	-	_	_
Vietnam	N/A	N/A	N/A	N/A	-	_	-
China	140,686	103,355	94,618	89,008	-37%	-14%	-6%
India	98,333	37,018	34,699	73,051	-26%	97%	111%
			34,077		-44%	-21%	35%
			/ 100	0 251			5570
South Korea	14,735	10,445	6,109	8,251			(20)
South Korea Japan	14,735 9,254	10,445 4,658	2,201	3,580	-61%	-23%	63%
South Korea Japan Indonesia	14,735 9,254 3,275	10,445 4,658 2,076	2,201 1,338	3,580 2,046	-61% -38%	-23% -1%	53%
South Korea Japan Indonesia Iran, Yearly Only	14,735 9,254 3,275 660	10,445 4,658 2,076 708	2,201 1,338 724	3,580 2,046 862	-61% -38% 31%	-23% -1% 22%	53% 19%
South Korea Japan Indonesia Iran, Yearly Only Pakistan	14,735 9,254 3,275 660 724	10,445 4,658 2,076 708 487	2,201 1,338 724 545	3,580 2,046 862 859	-61% -38% 31% 19%	-23% -1% 22% 76%	53%
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia	14,735 9,254 3,275 660 724 0	10,445 4,658 2,076 708 487 0	2,201 1,338 724 545 0	3,580 2,046 862 859 0	-61% -38% 31% 19% -	-23% -1% 22% 76% -	53% 19% 58% -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar	14,735 9,254 3,275 660 724 0 0	10,445 4,658 2,076 708 487 0 0	2,201 1,338 724 545 0 0	3,580 2,046 862 859 0 0	-61% -38% 31% 19% - -	-23% -1% 22% 76%	53% 19%
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines	14,735 9,254 3,275 660 724 0 0 0	10,445 4,658 2,076 708 487 0 0 0	2,201 1,338 724 545 0 0 0	3,580 2,046 862 859 0 0 0	-61% -38% 31% 19% -	-23% -1% 22% 76% -	53% 19% 58% -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan	14,735 9,254 3,275 660 724 0 0 0 0	10,445 4,658 2,076 708 487 0 0 0 0 0	2,201 1,338 724 545 0 0 0 0 0	3,580 2,046 862 859 0 0 0 0	-61% -38% 31% 19% - - - - -	-23% -1% 22% 76% - - - -	53% 19% 58% - - - -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan Africa	14,735 9,254 3,275 660 724 0 0 0 0 0 999	10,445 4,658 2,076 708 487 0 0 0 0 0 739	2,201 1,338 724 545 0 0 0 0 0 685	3,580 2,046 862 859 0 0 0	-61% -38% 31% 19% - - -	-23% -1% 22% - - - -	53% 19% 58% - - -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan	14,735 9,254 3,275 660 724 0 0 0 0	10,445 4,658 2,076 708 487 0 0 0 0 0	2,201 1,338 724 545 0 0 0 0 0	3,580 2,046 862 859 0 0 0 0	-61% -38% 31% 19% - - - - -	-23% -1% 22% 76% - - - -	53% 19% 58% - - - -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan Africa	14,735 9,254 3,275 660 724 0 0 0 0 0 999	10,445 4,658 2,076 708 487 0 0 0 0 0 739	2,201 1,338 724 545 0 0 0 0 0 685	3,580 2,046 862 859 0 0 0 0 0 745	-61% -38% 31% 19% - - - - -	-23% -1% 22% 76% - - - - 1%	53% 19% 58% - - - - <b>9%</b>
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan Africa Algeria	14,735 9,254 3,275 660 724 0 0 0 0 0 999 N/A	10,445 4,658 2,076 708 487 0 0 0 0 0 0 0 <b>739</b> N/A	2,201 1,338 724 545 0 0 0 0 685 N/A	3,580 2,046 862 859 0 0 0 0 0 745 N/A	-61% -38% 31% 19% - - - - - - - - - - 25% -	-23% -1% 22% 76% - - - - 1% -	53% 19% 58% - - - - <b>9%</b> -
South Korea Japan Indonesia Iran, Yearly Only Pakistan Australia Myanmar Philippines Taiwan Africa Algeria South Africa	14,735 9,254 3,275 660 724 0 0 0 0 0 0 <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>999</b> N/A 999	10,445 4,658 2,076 708 487 0 0 0 0 0 0 0 <b>739</b> N/A 739	2,201 1,338 724 545 0 0 0 0 0 <b>685</b> N/A 685	3,580 2,046 862 859 0 0 0 0 0 745 N/A 745	-61% -38% 31% 19% - - - - - - - - - - 25% -	-23% -1% 22% 76% - - - - 1% -	53% 19% 58% - - - - <b>9%</b> -

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