

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (March 2021)

The total value of machine tool orders in March was 127.88 billion yen. This was an increase of 21.1% compared to February 2021 and marked the second consecutive month of month-on-month growth. Moreover, this figure represented an increase of 65.1% compared to the same month of the previous year and marked the fourth consecutive month of year-on-year growth. The total amount of orders has exceeded 120 billion yen for the first time in 24 months since March 2019 (130.66 billion yen). Recovery is progressing in all regions, and we would like to expect further revival in the future. On the other hand, we would like to continue to pay close attention to the spread of infection.

Domestic orders rose by 32.9% over February, amounting to 40.49 billion yen. This marked the second consecutive month of month-on-month growth. Furthermore, this figure was an increase of 18.2% over the same month of the previous year and marked the first month of year-on-year recovery in twenty-eight months. Looking at major industries, orders compared to February rose by 48.8% in industrial machinery, by 15.3% in motor vehicles, by 61.8% in electrical & precision machinery, and fell by 11.9% in aircraft, shipbuilding & transport equipment.

Foreign orders rose by 16.3% over February to 87.39 billion yen, marked the second consecutive month of month-on-month growth. Likewise, foreign orders showed an increase of 102.3% over the same month of the previous year, and this marked the fifth consecutive month of year-on-year growth. By region, orders from Asia rose by 15.2% over February to 50.47 billion yen. This was an increase of 164.3% over the same month of the previous year. Orders from Europe rose by 15.6% over February to 14.05 billion yen. This was an increase of 95.1% over the same month of the previous year. Orders from North America rose by 19.1% over February, amounting to 21.36 billion yen. This figure was an increase of 32.0% over the same month of the previous year.

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

| Period | | Total 2020 | 20/19 (%) | 20/10-20/12 | 21/01-21/03 | Previous Quarter (%) | year-to-year (%) | 21/01-21/03 | year-to-year (%) | March ' 21 | Mar. 21/Feb. 21 (%) | Mar. 21/Mar. 20 (%) |
|--|---|------------|-----------|-------------|-------------|----------------------|------------------|-------------|------------------|------------|---------------------|---------------------|
| 1. Primary Metals | | 11,265 | 74.7 | 2,955 | 3,905 | 132.1 | 97.4 | 3,905 | 97.4 | 1,832 | 136.1 | 150.7 |
| 2. Fabricated Metal Products | | 23,498 | 73.4 | 7,181 | 6,945 | 96.7 | 113.8 | 6,945 | 113.8 | 2,873 | 111.8 | 102.8 |
| Machinery & Equipment Industries | 3. Industrial Machinery | 133,112 | 65.8 | 34,001 | 36,952 | 108.7 | 93.7 | 36,952 | 93.7 | 16,262 | 148.8 | 104.5 |
| | (of which construction machinery) | 7,013 | 60.8 | 1,307 | 1,508 | 115.4 | 57.4 | 1,508 | 57.4 | 692 | 142.4 | 65.5 |
| | (of which dies and molds) | 13,283 | 63.3 | 3,089 | 4,240 | 137.3 | 115.8 | 4,240 | 115.8 | 1,689 | 138.3 | 114.4 |
| | 4. Motor Vehicles | 83,437 | 59.7 | 26,405 | 27,354 | 103.6 | 106.9 | 27,354 | 106.9 | 10,068 | 115.3 | 134.7 |
| | (of which auto parts) | 55,580 | 54.9 | 18,776 | 19,639 | 104.6 | 128.7 | 19,639 | 128.7 | 6,744 | 101.1 | 155.7 |
| | 5. Electrical Machinery | 21,239 | 90.2 | 4,930 | 7,026 | 142.5 | 126.1 | 7,026 | 126.1 | 3,239 | 145.4 | 168.0 |
| | 6. Precision Machinery | 13,076 | 67.1 | 2,855 | 3,648 | 127.8 | 100.0 | 3,648 | 100.0 | 1,680 | 206.6 | 144.2 |
| | 5 – 6. Electrical & Precision Machinery (Sub Total) | 34,315 | 79.8 | 7,785 | 10,674 | 137.1 | 115.8 | 10,674 | 115.8 | 4,919 | 161.8 | 159.0 |
| | 7. Aircraft, Shipbuilding & Transport equipment | 11,089 | 45.4 | 2,232 | 3,214 | 144.0 | 80.7 | 3,214 | 80.7 | 1,224 | 88.1 | 81.1 |
| | (of which aircraft) | 3,598 | 30.0 | 462 | 1,140 | 246.8 | 49.5 | 1,140 | 49.5 | 375 | 56.5 | 41.7 |
| 3 – 7. Sub total | | 261,953 | 64.0 | 70,423 | 78,194 | 111.0 | 100.0 | 78,194 | 100.0 | 32,473 | 134.8 | 117.5 |
| 8. Other Machinery & Equipment | | 12,185 | 77.2 | 3,699 | 4,871 | 131.7 | 154.8 | 4,871 | 154.8 | 1,870 | 146.6 | 164.2 |
| 9. Government, Public Agencies & Schools | | 2,975 | 118.5 | 792 | 275 | 34.7 | 69.4 | 275 | 69.4 | 103 | 127.2 | 145.1 |
| 10. Others | | 8,444 | 70.1 | 1,960 | 2,197 | 112.1 | 86.4 | 2,197 | 86.4 | 991 | 161.9 | 102.7 |
| 11. Trading Companies | | 4,135 | 65.4 | 766 | 975 | 127.3 | 68.9 | 975 | 68.9 | 345 | 69.6 | 80.6 |
| 1-11. Domestic Total | | 324,455 | 65.8 | 87,776 | 97,362 | 110.9 | 101.6 | 97,362 | 101.6 | 40,487 | 132.9 | 118.2 |
| 12. Foreign | | 577,380 | 78.4 | 182,172 | 224,734 | 123.4 | 161.0 | 224,734 | 161.0 | 87,389 | 116.3 | 202.3 |
| 1-12. Grand Total | | 901,835 | 73.3 | 269,948 | 322,096 | 119.3 | 136.8 | 322,096 | 136.8 | 127,876 | 121.1 | 165.1 |
| (of which: NC machines) | | 884,770 | 73.3 | 265,545 | 317,186 | 119.4 | 137.3 | 317,186 | 137.3 | 125,971 | 121.1 | 166.4 |
| Sales | | 1,033,616 | 68.8 | 258,834 | 306,035 | 118.2 | 99.7 | 306,035 | 99.7 | 147,094 | 171.8 | 116.1 |
| (of which: NC machines) | | 1,010,596 | 68.5 | 253,059 | 300,273 | 118.7 | 99.9 | 300,273 | 99.9 | 144,166 | 171.6 | 116.6 |
| Order Backlog | | 430,794 | 76.8 | 430,794 | 446,582 | 103.7 | 91.0 | 446,582 | 91.0 | 446,582 | 95.9 | 91.0 |
| (of which: NC machines) | | 415,568 | 76.6 | 415,568 | 432,481 | 104.1 | 91.3 | 432,481 | 91.3 | 432,481 | 96.0 | 91.3 |

NET NEW ORDERS BY DESTINATION

(Value in Millions of yen)

| 2021 | | Jan. | | Feb. | | Mar. | | Apr. | | May | | June | | July | | Aug. | | Sep. | | Oct. | | Nov. | | Dec. | | Total | | | |
|-------------------------|-------------------|-----------------|--------|--------|--------|--------|--------|-------|---|-----|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|-------|---------|---------|--------|
| | | | % | | % | | % | | % | | % | | % | | % | | % | | % | | % | | % | | % | 2021 | % | | |
| Asia | East Asia | Korea | 2,804 | 140.2 | 3,692 | 208.9 | 2,314 | 161.6 | | | | | | | | | | | | | | | | | | | 8,810 | 169.5 | |
| | | Taiwan | 2,230 | 123.8 | 2,462 | 198.1 | 2,923 | 206.3 | | | | | | | | | | | | | | | | | | | | 7,615 | 170.7 |
| | | China | 25,705 | 239.3 | 30,212 | 409.4 | 37,384 | 330.9 | | | | | | | | | | | | | | | | | | | | 93,301 | 317.1 |
| | | Other | 0 | - | 1 | 4.3 | 0 | - | | | | | | | | | | | | | | | | | | | | 1 | 2.9 |
| | | East Asia Total | 30,739 | 211.4 | 36,367 | 349.2 | 42,621 | 301.0 | | | | | | | | | | | | | | | | | | | | 109,727 | 280.5 |
| | Other Asia | Thailand | 1,022 | 103.5 | 1,116 | 54.2 | 1,552 | 105.2 | | | | | | | | | | | | | | | | | | | | 3,690 | 81.6 |
| | | Malaysia | 764 | 457.5 | 517 | 74.1 | 542 | 43.7 | | | | | | | | | | | | | | | | | | | | 1,823 | 86.6 |
| | | Singapore | 483 | 187.9 | 361 | 214.9 | 529 | 111.4 | | | | | | | | | | | | | | | | | | | | 1,373 | 152.6 |
| | | Philippine | 23 | 13.1 | 60 | 46.5 | 259 | 99.2 | | | | | | | | | | | | | | | | | | | | 342 | 60.4 |
| | | Indonesia | 202 | 24.9 | 313 | 60.7 | 564 | 153.3 | | | | | | | | | | | | | | | | | | | | 1,079 | 63.6 |
| Vietnam | | 614 | 85.5 | 253 | 29.2 | 370 | 144.0 | | | | | | | | | | | | | | | | | | | | 1,237 | 67.2 | |
| India | | 1,750 | 94.7 | 4,810 | 359.5 | 4,020 | 467.4 | | | | | | | | | | | | | | | | | | | | 10,580 | 261.6 | |
| Other | 4 | 133.3 | 25 | 2500.0 | 14 | 466.7 | | | | | | | | | | | | | | | | | | | | 43 | 614.3 | | |
| Other Asia Total | 4,862 | 97.9 | 7,455 | 129.1 | 7,850 | 158.9 | | | | | | | | | | | | | | | | | | | | | 20,167 | 128.6 | |
| Sub Total | 35,601 | 182.5 | 43,822 | 270.7 | 50,471 | 264.3 | | | | | | | | | | | | | | | | | | | | | 129,894 | 237.1 | |
| Europe | EU | Germany | 2,514 | 80.0 | 3,005 | 128.0 | 3,223 | 238.9 | | | | | | | | | | | | | | | | | | | | 8,742 | 127.8 |
| | | Italy | 1,770 | 105.3 | 2,106 | 275.7 | 2,866 | 550.1 | | | | | | | | | | | | | | | | | | | | 6,742 | 227.3 |
| | | France | 874 | 87.1 | 1,046 | 131.6 | 1,134 | 266.8 | | | | | | | | | | | | | | | | | | | | 3,054 | 137.3 |
| | | Central Europe | 865 | 67.8 | 635 | 36.8 | 1,015 | 129.0 | | | | | | | | | | | | | | | | | | | | 2,515 | 66.4 |
| | | Other | 2,110 | 99.9 | 1,815 | 78.7 | 2,305 | 122.2 | | | | | | | | | | | | | | | | | | | | 6,230 | 98.8 |
| | Sub Total | 8,133 | - | 8,607 | - | 10,543 | - | | | | | | | | | | | | | | | | | | | | | 27,283 | - |
| | Other West Europe | U. K. | 1,012 | 65.1 | 1,123 | 83.9 | 1,279 | 160.7 | | | | | | | | | | | | | | | | | | | | 3,414 | 92.5 |
| | | Turkey | 1,117 | 312.9 | 1,376 | 204.5 | 948 | 224.6 | | | | | | | | | | | | | | | | | | | | 3,441 | 237.0 |
| | | Switzerland | 266 | 47.6 | 486 | 97.2 | 643 | 200.9 | | | | | | | | | | | | | | | | | | | | 1,395 | 101.2 |
| | | East Europe | 24 | 47.1 | 106 | 60.6 | 113 | - | | | | | | | | | | | | | | | | | | | | 243 | 109.5 |
| | | Russia - Other | 145 | 26.7 | 194 | 109.6 | 210 | 36.8 | | | | | | | | | | | | | | | | | | | | 549 | 42.5 |
| | | Sub Total | 10,776 | 87.1 | 12,158 | 111.4 | 14,054 | 195.1 | | | | | | | | | | | | | | | | | | | | | 36,988 |
| Other West Europe | | 2,474 | - | 3,251 | - | 3,188 | - | | | | | | | | | | | | | | | | | | | | | 8,913 | - |
| North America & Oceania | U. S. A. | 11,846 | 73.4 | 15,057 | 99.0 | 18,799 | 154.1 | | | | | | | | | | | | | | | | | | | | 45,702 | 105.0 | |
| | Canada | 1,242 | 111.8 | 931 | 72.9 | 1,513 | 234.9 | | | | | | | | | | | | | | | | | | | | 3,686 | 121.6 | |
| | Mexico | 997 | 109.0 | 1,946 | 225.8 | 1,052 | 31.5 | | | | | | | | | | | | | | | | | | | | 3,995 | 78.1 | |
| | Sub Total | 14,085 | 77.5 | 17,934 | 103.4 | 21,364 | 132.0 | | | | | | | | | | | | | | | | | | | | | 53,383 | 103.3 |
| | Other | 43 | 72.9 | 52 | 152.9 | 125 | 595.2 | | | | | | | | | | | | | | | | | | | | | 220 | 193.0 |
| Brazil | 476 | 126.3 | 409 | 130.7 | 615 | 292.9 | | | | | | | | | | | | | | | | | | | | | 1,500 | 166.7 | |
| Sub Total | 519 | 119.0 | 461 | 132.9 | 740 | 320.3 | | | | | | | | | | | | | | | | | | | | | 1,720 | 169.6 | |
| Oceania | Australia | 749 | 231.2 | 470 | 200.9 | 435 | 145.0 | | | | | | | | | | | | | | | | | | | | 1,654 | 192.8 | |
| | Other | 35 | 1750.0 | 23 | 230.0 | 126 | - | | | | | | | | | | | | | | | | | | | | 184 | 1533.3 | |
| Sub Total | 784 | 240.5 | 493 | 202.0 | 561 | 187.0 | | | | | | | | | | | | | | | | | | | | | 1,838 | 211.3 | |
| Middle East | 245 | 72.9 | 259 | 140.0 | 155 | 119.2 | | | | | | | | | | | | | | | | | | | | | 659 | 101.2 | |
| Africa | 212 | 504.8 | -4 | - | 44 | 75.9 | | | | | | | | | | | | | | | | | | | | | 252 | 233.3 | |
| Grand Total | 62,222 | 121.5 | 75,123 | 166.1 | 87,389 | 202.3 | | | | | | | | | | | | | | | | | | | | | 224,734 | 161.0 | |
| Of which NC | 61,740 | 121.7 | 74,462 | 165.2 | 86,832 | 203.2 | | | | | | | | | | | | | | | | | | | | | 223,034 | 161.0 | |

(Note) It will be described as “-”, if the actual value is “negative” or “0” or no actual value.

Japan Machine Tool Builders' Association

From January 2021, the UK was moved from the “EU” to “other Western Europe”.