

February 2023

U.S. Equipment & Software Investment Momentum Monitor



CONTACT INFORMATION:

Kelli Nienaber, Executive Director

Equipment Leasing & Finance Foundation
knienaber@elfaonline.org
www.leasefoundation.org

Jeff Jensen, Senior Director

Keybridge LLC
jjensen@keybridgedc.com
www.keybridgedc.com

About the U.S. Equipment & Software Investment Momentum Monitor

Business leaders require actionable forward-looking intelligence to make strategic decisions. Accordingly, the Equipment Leasing & Finance Foundation commissioned Keybridge LLC to develop a series of custom leading indicators for the equipment sector. Published monthly, the “U.S. Equipment & Software Investment Momentum Monitor” consists of indices for the 12 equipment and software investment verticals listed below. These indices are designed to identify turning points in their respective investment cycles with an approximate 6-month lead time.

The Momentum Monitor is based on Keybridge’s extensive research which shows that not all movements in economic data are reliable signals of future economic trends. Keybridge has operationalized its research by constructing indices, each comprised of 10–20 high-frequency indicators. These indicators undergo rigorous testing to determine the optimal thresholds at which their short-term fluctuations are economically meaningful. In simpler terms, the Momentum Monitor sifts out the “noise” in the data and identifies the dominant trends. As a result, each Momentum Monitor index is statistically optimized to signal turning points in the investment cycle without giving false readings of shifts in momentum.

The Momentum Monitor covers 12 equipment and software verticals as defined by the U.S. Department of Commerce, Bureau of Economic Analysis.

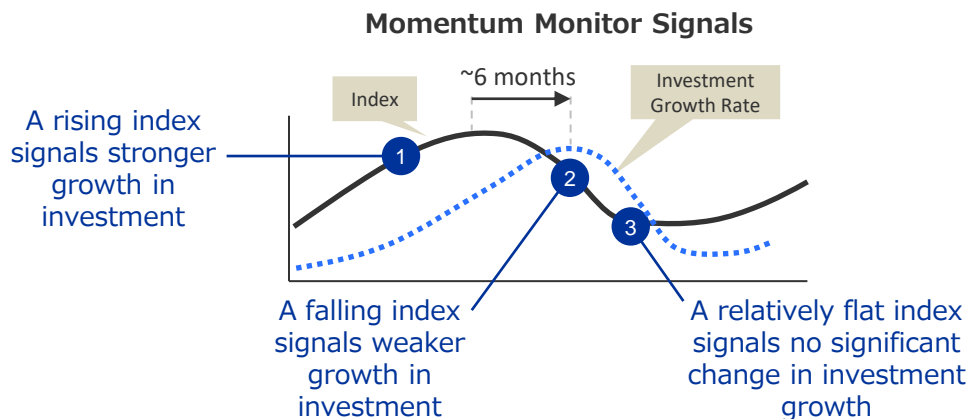
U.S. Equipment & Software Investment Momentum Monitor – 12 Verticals

- | | |
|-----------------------------------|-----------------------|
| 1) Agriculture Machinery | 7) Aircraft |
| 2) Construction Machinery | 8) Ships and Boats |
| 3) Materials Handling Equipment | 9) Railroad Equipment |
| 4) All Other industrial Equipment | 10) Trucks |
| 5) Medical Equipment | 11) Computers |
| 6) Mining & Oilfield Machinery | 12) Software |

How to Read the Monitor

Each Momentum Monitor index provides a signal of the direction and magnitude of growth in equipment investment over the next six months. It is important to note that index values do not correspond to particular growth rates. Instead, the Momentum Monitor indices should be interpreted within the context of prior index readings and investment growth rates. For example, there are several simple rules to follow when examining the latest index values:

- 1) A rising index signals that growth in investment will accelerate from the current rate;
- 2) A falling index signals that growth in investment will decelerate from the current rate; and
- 3) No change in the index signals no meaningful change from the current growth rate.



To help the reader interpret the latest Momentum Monitor signals, a summary report for each equipment vertical follows a specific outline:

Materials Handling Equipment:

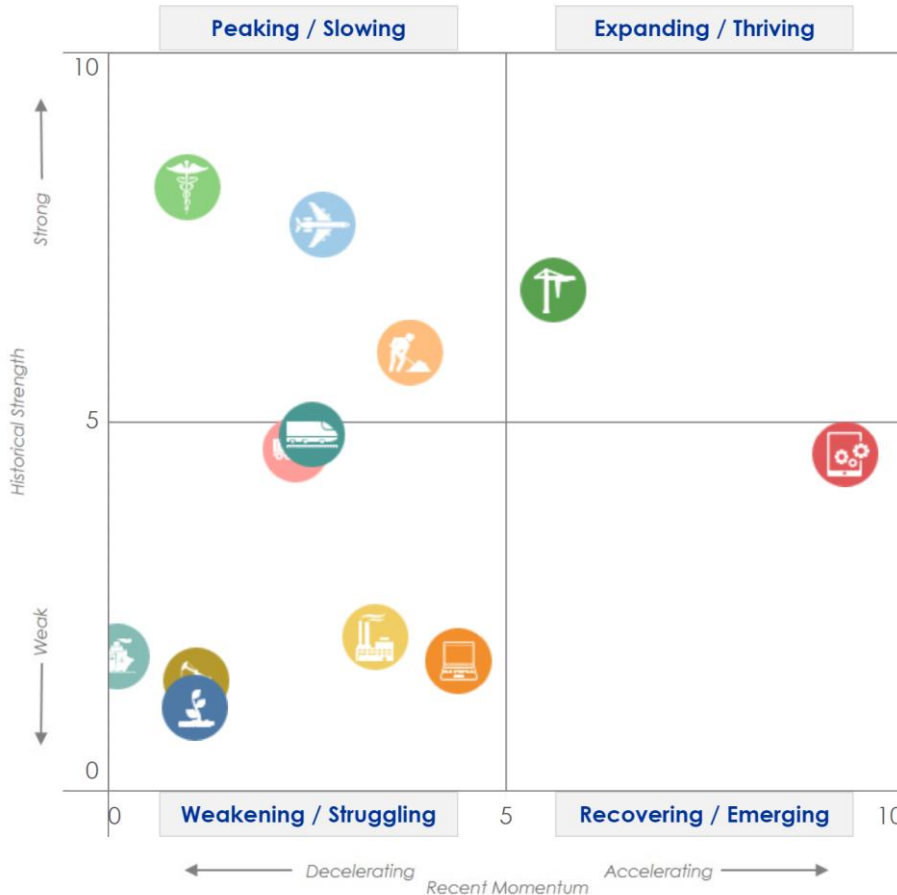
- 1 Investment in Materials Handling Machinery inched up at a 0.3% annualized rate in Q4 2014 and is up 7.3% year-over-year.
- 2 The Materials Handling Momentum Index slipped from 93.5 in February to 92.5 in March.
- 3 A 23% decline in the MNI-Chicago Business Barometer and a spike in Economic Policy Uncertainty offset gains in Machinery Sales, Manufacturing Sales, and the ISM Manufacturing Suppliers Deliveries Index.
- 4 The Index's recent trend continues to indicate that growth may moderate over the next six months.

- 1) The first sentence reports the latest growth rate for investment in a given vertical. This provides a context for interpreting the order of magnitude of growth over the next six months.
- 2) The second sentence explains the latest movement in the index, indicating whether momentum is accelerating or decelerating.
- 3) The report then describes the recent movements of one or more indicators to help to explain the index's latest reading.
- 4) Finally, the report ends with an interpretation of where investment growth is heading over the next six months based the index's recent movement and historical strength.

U.S. Equipment & Software Investment Momentum Monitor

February 2023

Momentum Monitor Sector Matrix



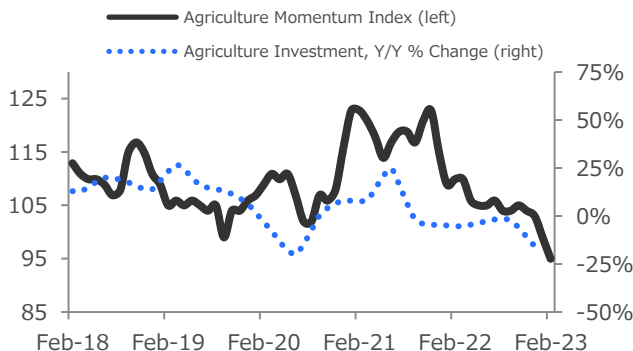
The matrix above summarizes the current values of each of the 12 Equipment & Software Investment Momentum Indices based on two factors: Recent Momentum (x-axis) and Historical Strength (y-axis):

- **"Recent Momentum"** represents the degree of an indicator's recent acceleration or deceleration in the past month relative to its average movement during the previous 3 months. Ratings closer to "0" represent an indicator that is rapidly decelerating, while ratings closer to "10" represent an indicator that is rapidly accelerating.
- **"Historical Strength"** represents the strength or weakness of an indicator in the past month relative to its typical level since 1999. Ratings closer to "0" represent an indicator that is weaker than average, while ratings closer to "10" represent an indicator that is stronger than average.

The matrix is comprised of four quadrants according to each vertical's recent momentum and historical strength readings. If a vertical is located in the top-left quadrant, its momentum reading is higher than average, but positive movement has slowed (and perhaps reversed) in recent months — suggesting that investment levels may fall over the next two quarters. Verticals located in the bottom-right quadrant, however, have momentum readings that are below average, but recent movement shows promise — suggesting that investment levels may rise over the next two quarters. This makes them potentially attractive targets for new short-term leasing and finance opportunities.

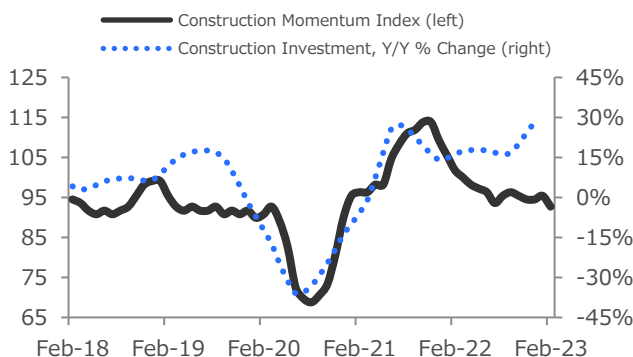
Agriculture Machinery:

Investment in Agricultural Machinery fell 41% (annualized) in Q4 2022 and was down 16% from one year ago. The Agriculture Momentum Index dropped from 99.0 in January (revised) to 95.0 in February. In December, Agricultural Machinery Industrial Production fell 0.7% and Shipments of Farm Machinery fell 10%. Overall, the Index's position and recent movement suggest that agriculture machinery investment growth is likely to weaken further over the coming six months.



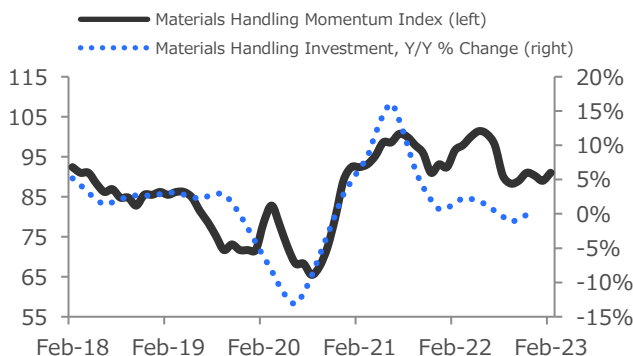
Construction Machinery:

Investment in Construction Machinery surged 51% (annualized) in Q4 2022 and was 28% above its year-ago level. The Construction Momentum Index edged down from 95.4 in January (revised) to 92.7 in February. Months Inventory of Existing Homes rose 11% in December while Mobile Home Shipments dropped by 5.8% in November. Overall, the Index's position suggests that construction machinery investment growth may have peaked, though growth will likely remain positive over the coming two quarters.



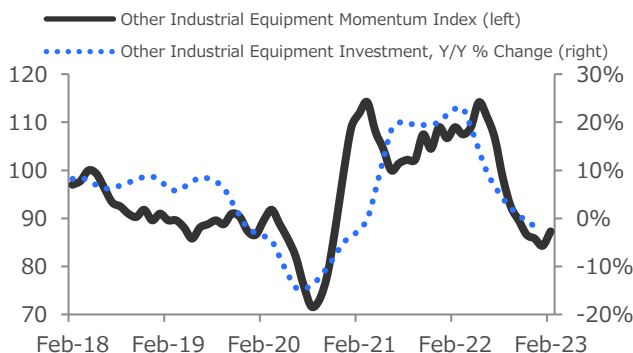
Materials Handling Equipment:

Investment in Materials Handling Equipment rose 3.1% (annualized) in Q4 2022 and was 0.4% above year-ago levels. The Materials Handling Momentum Index improved from 89.0 in January (revised) to 91.0 in February. In December, Durable Manufacturing Industrial Production eased 1.1% while the NFIB Small Business Survey Borrowing Sub-Index rose 3.7%. Overall, the Index's recent movement and position suggest that materials handling equipment investment growth will likely remain muted over the coming three to six months.



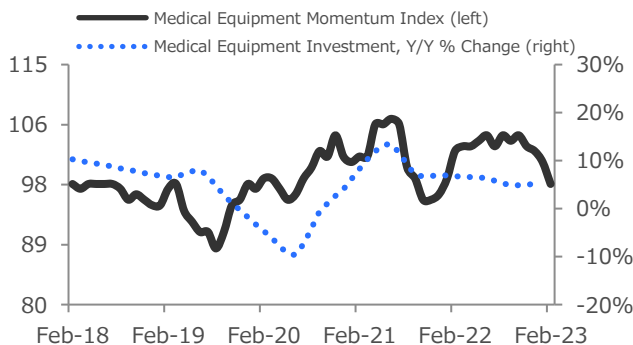
Other Industrial Equipment:

Investment in All Other Industrial Equipment rose at a 1.7% (annualized) rate in Q4 2022 but was down 1.7% Y/Y. The Other Industrial Equipment Momentum Index increased from 84.3 in January (revised) to 87.3 in February. In January, the Chicago Business Barometer fell 1.7% while the Unemployment Rate dipped to 3.4%. Overall, the Index's position and recent movement suggest that other industrial equipment investment growth may have bottomed out, though growth is likely to remain weak over the coming two quarters.



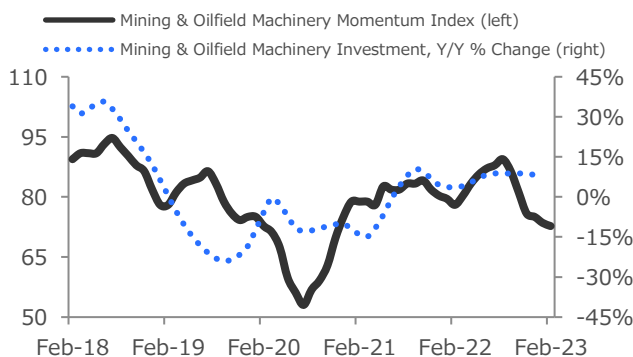
Medical Equipment:

Investment in Medical Equipment jumped 9.2% (annualized) in Q4 2022 and was up 5.2% year-over-year. The Medical Equipment Momentum Index dipped from 100.8 in January to 97.6 in February. In December, Industrial Production for Miscellaneous Medical Equipment & Supplies fell 1.1% and Capacity Utilization for Electrical Equipment Manufacturing dropped 1.6%. Overall, the Index's position and recent movement suggest that medical equipment investment growth is likely to decelerate over the coming six months.



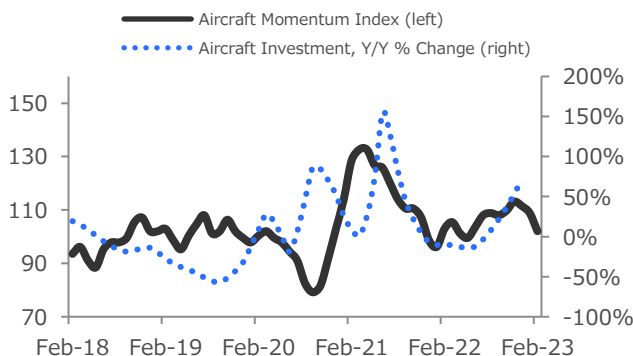
Mining & Oilfield Machinery:

Investment in Mining & Oilfield Machinery fell 9.5% (annualized) in Q4 2022 but was 8.2% above year-ago levels. The Mining & Oilfield Machinery Momentum Index eased from 73.5 in January (revised) to 72.7 in February. In December, Motor Gasoline Production fell 3.1% and Mining, Oil, and Gas Field Machinery Industrial Production fell 1.3%. The current position and recent movement of the Index suggest that mining & oilfield machinery investment growth may decelerate over the coming two quarters.



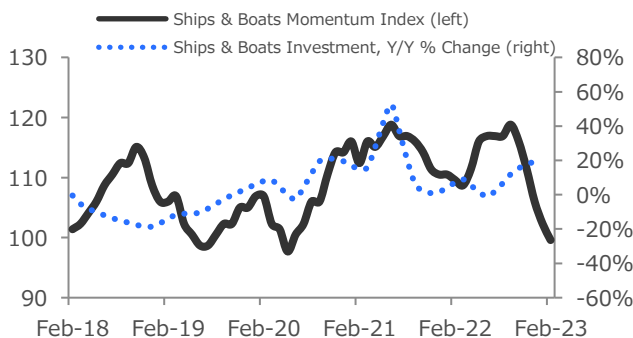
Aircraft:

Investment in Aircraft surged at a 121% (annualized) rate in Q4 2022 and was 72% above year-ago levels. The Aircraft Momentum Index dropped from 108.8 in January (revised) to 102.0 in February. In January, the S&P 500 Volatility Index decreased 11% and the Market Cap of Southwest Airlines rose 6.2%. Overall, the Index's position and recent movement suggest that aircraft investment growth may have peaked, though growth will likely remain positive over the coming two quarters.



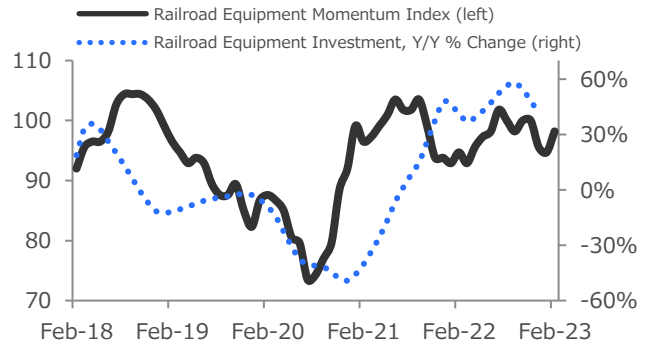
Ships & Boats:

Investment in Ships & Boats jumped at an annualized rate of 18% in Q4 2022 and was 19% above its year-ago level. The Ships & Boats Momentum Index fell from 102.3 in January (revised) to 99.6 in February. Industrial Production of Ships and Boats fell 1.5% in December while the ICE U.S. Dollar Index dropped 1.3% in January. Overall, the Index's position and recent movement suggest that ships & boats investment growth may decelerate over the coming six months.



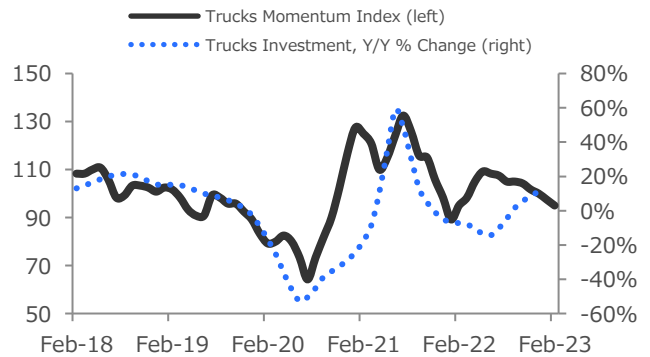
Railroad Equipment:

Investment in Railroad Equipment decreased 21% (annualized) in Q4 2022 but was up 41% year-over-year. The Railroad Equipment Momentum Index rose from 94.7 in January (revised) to 98.2 in February. In January, Transportation & Warehousing Employment ticked up 0.3% while Rail Carloads of Petroleum Products increased 7.7%. Overall, the current position and recent movement of the Index suggest that railroad equipment investment will likely remain healthy over the coming six months.



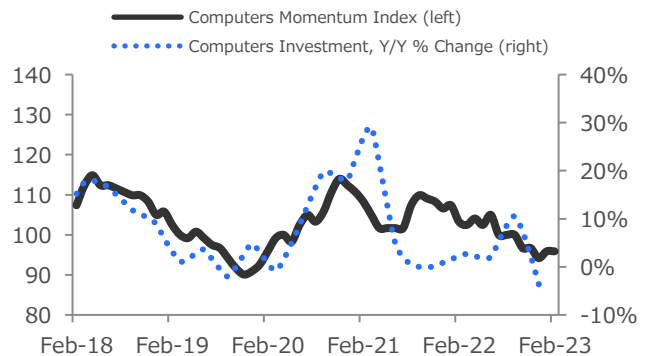
Trucks:

Investment in Trucks rose 2.7% (annualized) in Q4 2022 and was 11% above year-ago levels. The Trucks Momentum Index edged down from 97.5 in January (revised) to 95.0 in February. In December, Coal Production fell 6.4% while Shipments of Heavy Duty Trucks rose 2.6%. Overall, the position and recent movement of the Index indicate that trucks investment growth is unlikely to accelerate further over the coming two quarters.



Computers:

Investment in Computers plunged 35% (annualized) in Q4 2022 and was down 3.7% year-over-year. The Computers Momentum Index was unchanged at 95.9 from January to February. Capacity Utilization for Computer & Electronic Product Manufacturing fell 1.5% in December and the ISM Manufacturing PMI declined 2.1% in January. Overall, the Index's position and recent movement suggest that computers investment growth will likely remain weak over the coming six months.



Software:

Investment in Software rose 13% (annualized) in Q4 2022 and was up 14% from a year prior. The Software Momentum Index increased from 95.8 in January (revised) to 99.0 in February. The Software Publishers PPI rose 0.3% and the NFIB Interest Rate Paid on Short-Term Loans Sub-Index dropped 2.5% in December. Overall, the Index's position and Recent movement suggest that software investment should remain healthy over the coming two quarters.

