

Terex Corp.

Fighting an uphill battle - Lower to Underperform

Rating Change: UNDERPERFORM | PO: 57.00 USD | Price: 56.62 USD

Hard to disapprove the peak narrative - downgrade to U/P

TEX was one of the best performing stocks in our coverage in '23 (+37% vs S&P +25%), underpinned by strong momentum: sales +17%, EPS +65%, FCF +160%. That said, we see evidence that EPS is likely to peak (and fall in '25) as the cycle matures. While TEX is executing well and the valuation range could re-rate higher over the l-term (exhibits 13-14), we believe some of the cyclical tailwinds that underpinned a robust three-year earnings cycle (tight supply/demand, fleet replacement needs, pricing) start to fade.

AWP: still some legs into 2024 yet likely long in the tooth

Early indications suggest rental growth capex is likely up in '24 – positive for AWP. That said, we believe the cycle is starting to mature following 3-4 year upswing: units are nearing prior peak (exhibit 5), rental fleet age returning back to pre-covid levels (exhibit 6), and aerial used values are falling (while HRC steel is rising). Rental operators can flex capex down quicky if non-res cycle slows now that supply chains have normalized.

MP: some mix in the portfolio (Europe) a likely headwind

We have long argued that MP is TEX's hidden gem. We continue to believe this over the l-term yet see trends slowing: Europe is $\sim 35\%$ of sales (construction PMI in contraction, exhibit 12), peer Metso reported softer order trends last few quarters, Aggregates suppliers are guiding to 'flattish' volumes in 2024 (likely keeps a lid on capex). We note the recycling portion of MP ($\sim 10\%$ of sales) is likely to grow given higher waste capex.

BofA's non-res call: speaker strikes a cautious tone

This week we hosted a call with Kermit Baker, Chief Economist of AIA. Mr. Baker provided a more cautious outlook on non-res construction (excl infrastructure) vs a few months ago: easing backlogs, lower billings, project pipeline – see takeaways note today.

Upside risk: capital deployment, rate cuts stimulate '25

We lower our '24E EPS to \$7.15 (\$7.20) & raise our PO to \$57 (\$50) based on 8x '24E EPS – the historic multiple applied to peak EPS (shifting to PE methodology we apply to peers vs prior 4.5x EBITDA). While PO implies limited absolute downside, we struggle to see upside as peak narrative is in play - Underperform. Risk to our view: big capital deployment (net leverage 0.5x), rate cuts stimulate non-res in '25 faster than expected.

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	3.07	4.33	7.13	7.15	6.50
GAAP EPS	3.11	4.33	7.16	7.15	6.50
EPS Change (YoY)	NM	41.0%	64.7%	0.3%	-9.1%
Consensus EPS (Bloomberg)			7.08	7.14	6.78
DPS	0.48	0.52	0.66	0.73	0.78
Valuation (Dec)					
P/E	18.4x	13.1x	7.9x	7.9x	8.7x
GAAP P/E	18.2x	13.1x	7.9x	7.9x	8.7x
Dividend Yield	0.8%	0.9%	1.2%	1.3%	1.4%
EV / EBITDA*	11.9x	9.6x	6.2x	6.2x	6.7x
Free Cash Flow Yield*	6.1%	3.9%	10.3%	7.6%	11.3%
* For full definitions of <i>iQ</i> method SM measures, see page 7.					

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Refer to important disclosures on page 8 to 10. Analyst Certification on page 6. Price
Objective Basis/Risk on page 6.

Timestamp: 19 January 2024 06:00AM EST

19 January 2024

Equity

Key Changes		
(US\$)	Previous	Current
Inv. Opinion	C-2-7	C-3-7
Inv. Rating	NEUTRAL UND	ERPERFORM
Price Obj.	50.00	57.00
2023E Rev (m)	5,150.8	5,163.5
2024E Rev (m)	5,297.0	5,198.4
2025E Rev (m)	5,076.7	4,959.7
2023E EPS	7.05	7.13
2024E EPS	7.20	7.15
2025E EPS	6.85	6.50

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Stock Data

Price	56.62 USD
Price Objective	57.00 USD
Date Established	19-Jan-2024
Investment Opinion	C-3-7
52-Week Range	41.89 USD - 65.64 USD
Mrkt Val (mn) / Shares Out (mn)	3,856 USD / 68.1
Free Float	97.3%
Average Daily Value (mn)	42.95 USD
BofA Ticker / Exchange	TEX / NYS
Bloomberg / Reuters	TEX US / TEX.N
ROE (2023E)	34.8%
Net Dbt to Eqty (Dec-2022A)	39.9%
ESGMeter™	High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating, ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology"

MP = Materials Processing

AWP = Aerial Work Platforms

TEX = Terex

AIA = American Institute of Architecture

Non-res = non-residential

Excl = excluding

HRC = hot-rolled coil

iQprofile[™]Terex Corp.

<i>iQ</i> method [™] – Bus Performance*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025E
Return on Capital Employed	12.7%	16.9%	22.9%	19.1%	15.0%
Return on Equity	21.4%	26.2%	34.8%	26.2%	19.1%
Operating Margin	8.4%	9.5%	13.0%	13.1%	12.6%
Free Cash Flow	234	152	395	293	435
<i>iQ</i> method [™] – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Cash Realization Ratio	1.3x	0.9x	1.0x	0.9x	1.3>
Asset Replacement Ratio	1.2x	2.3x	2.1x	2.9x	2.8>
Tax Rate	17.6%	18.1%	20.0%	21.0%	21.0%
Net Debt-to-Equity Ratio	36.7%	39.9%	7.8%	-7.9%	-23.6%
Interest Cover	4.3x	8.9x	11.2x	11.3x	10.4x
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	20251
Sales	3,887	4,418	5,163	5,198	4,960
% Change	26.3%	13.7%	16.9%	0.7%	-4.6%
Gross Profit	757	871	1,198	1,216	1,166
% Change	40.4%	15.0%	37.5%	1.5%	-4.2%
EBITDA	378	467	720	729	673
% Change	220.2%	23.5%	54.0%	1.3%	-7.7%
Net Interest & Other Income	(64)	(53)	(60)	(60)	(60)
Net Income (Adjusted) % Change	218 NM	300 38.0%	488 62.5%	489 0.3%	-9.0%
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Net Income from Cont Operations (GAAP)	218	300	488	489	445
Depreciation & Amortization	50	47	50	50	50
Change in Working Capital	(52)	(138)	77	(104)	93
Deferred Taxation Charge	1	0	(116)	4	(14)
Other Adjustments, Net	76	52	2	0	C
Capital Expenditure	(60)	(110)	(106)	(146)	(139)
Free Cash Flow	234	152	395	293	435
% Change	45.2%	-35.1%	160.9%	-25.9%	48.4%
Share / Issue Repurchase	(3)	(101)	(50)	0	C
Cost of Dividends Paid	(34)	(36)	0	0	C
Change in Debt	(503)	97	0	0	C
Balance Sheet Data (Dec)	20214	20224	20225	20245	2025
(US\$ Millions)	2021A	2022A	2023E	2024E	2025I
Cash & Equivalents	267 508	304 548	650	943 712	1,378 625
Trade Receivables Other Current Assets	993	1,110	608 1,254	1,255	1,221
Property, Plant & Equipment	430	466	521	617	706
Other Non-Current Assets	666	691	691	691	691
Total Assets	2,864	3,118	3,724	4,217	4,620
Short-Term Debt	6	2	2	2	2
Other Current Liabilities	904	997	1,163	1,167	1,125
	669	774	774	774	774
Long-Term Debt	003				
Long-Term Debt Other Non-Current Liabilities	176	165	165	165	165
0				165 2,107	165 2,065
Other Non-Current Liabilities	176	165	165		

Company Sector

Construction Machinery

Company Description

Terex Corp. manufactures equipment for the construction, mining, and cement and aggregates markets. Its two main segments are Aerial Work Platforms and Material Processing after completing several large divestitures in recent years. Sales are roughly 58% North America, 22% Europe, 14% Asia Pacific, and 6% ROW.

Investment Rationale

Terex has taken positive steps to rationalize the less profitable and low return portions of its portfolio. While TEX is executing well and the valuation range could re-rate higher over the long-term, we believe some of the cyclical tailwinds that underpinned a robust three-year earnings cycle (tight supply/demand, fleet replacement needs, pricing) are starting to fade. We see evidence that EPS is likely to peak (and fall in 2025) as the cycle matures.

Stock Data	
Average Daily Volume	758,516

Quarter	y	Earnings	Estimates

	2022	2023
Q1	0.74A	1.60A
Q2	1.07A	2.35A
Q3	1.20A	1.75A
Q4	1.34A	1.44E

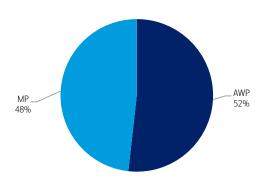


* For full definitions of \emph{iQ} method $^{\text{SM}}$ measures, see page 7.

Key charts

Exhibit 1: TEX operating profit by segment

AWP is 52% of TEX's operating profit

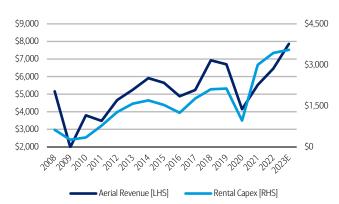


Source: Company Filings

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Exhibit 3: AWP revenue vs Gross Rental Capex

Capex could plateau in next 1-2 years if 'tail' of construction market fades

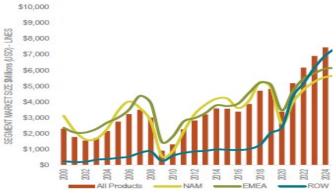


Source: Aerial Revenue (TEX + OSK), rental capex (URI)

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Exhibit 5: Access & Material Handling Equipment Geo Mix

North America and Europe back to peak levels and start to plateau



Source: Linamar Company Filings

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Exhibit 2: Customer applications

Estimated sales by end use

CUSTOMER APPLICATIONS*



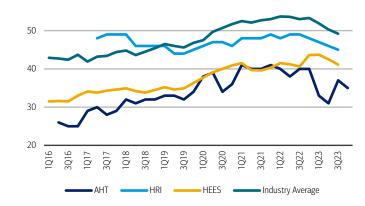
*Estimated sales by end use

Source: Company Filings

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Exhibit 4: Rental fleet age (months)

The rental industry age fleet age is moderating



Source: Company Filings (AHT, HRI, HEES)

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Exhibit 6: Used aerial equipment pricing YoY

Used aerial equipment pricing is moderating



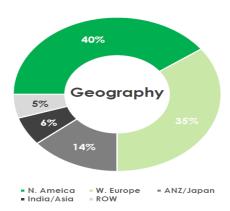
Source: RB Global

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Exhibit 7: MP revenue by geography

Majority of TEX's MP revenue is in North America



Source: Company Filings

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Exhibit 9: Highway contract awards near record highs

Support growth in public driven construction areas (highways, roads)

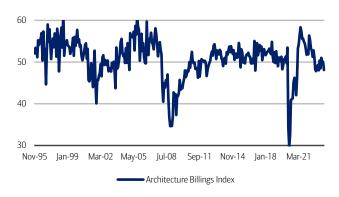


Source: ARTBA

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Exhibit 11: Architecture Billings Index - gauge of private non-res

Billings remains below 50 – suggesting a decline in activity

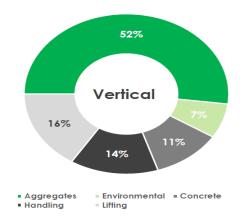


Source: Bloomberg

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Exhibit 8: MP revenue by vertical

Majority of TEX's MP revenue is driven by aggregates



Source: Company Filings

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Exhibit 10: Construction starts vs construction spending

Construction (non-res) starts moderating – suggesting slowing spending



Source: ConstructConnect

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Exhibit 12: European construction PMI

Europe construction PMI is below 50 – suggesting contraction



Source: Bloomberg

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Exhibit 13: TEX 12-month forward PE

Typically, PE multiple of 8x (or lower) is applied at 'peak' of the cycle

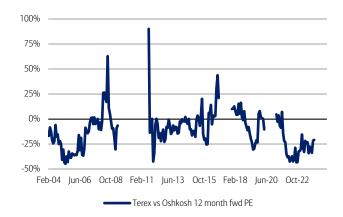


Source: DataStream,

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Exhibit 14: TEX vs peer OSK 12-month fwd PE

We see a long-term argument for TEX to narrow the discount yet likely challenged in 2024 as OSK (non-Access units) are positive drivers



Source: DataStream

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Price objective basis & risk

Terex Corp. (TEX)

Our PO of \$57 is based on 8x 2024e EPS, near the low end of the historical range (6-18x), as we are likely nearing a peak on Access equipment. In prior cycles, we typically see a low multiple ascribed to Terex's peak earnings - which we believe could be playing out in 2024. While the company is executing well and possesses a strong balance sheet, we believe some cyclical tailwinds (tight supply/demand, fleet replacement needs, pricing) are starting to fade.

Upside risks are 1) stronger and longer than expected recovery in Aerial Work Platforms underpinned by secular and cyclical drivers in construction, 2) better than expected growth opportunities in Material Processing, 3) higher reset of margin targets in the future, 4) bigger than expected capital redeployment.

Downside risks are 1) supply chain disruptions and manufacturing inefficiencies with production transitions, 2) rates are higher for longer and weigh on construction activity, 3) inability to price for higher inputs, 4) higher capacity in certain markets overwhelm the pricing environment.

Analyst Certification

I, Michael Feniger, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Machinery Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	AECOM	ACM	ACM US	Michael Feniger
	Blue Bird Corp	BLBD	BLBD US	Sherif El-Sabbahy
	Caterpillar Inc	CAT	CAT US	Michael Feniger
	CNH Industrial NV	CNHI	CNHIUS	Michael Feniger
	Construction Partners Inc.	ROAD	ROAD US	Michael Feniger
	ESAB Corp	ESAB	ESAB US	Sherif El-Sabbahy
	Finning International Inc.	YFTT	FTT CN	Sherif El-Sabbahy
	GFL Environmental Inc	GFL	GFL US	Michael Feniger
	GFL Environmental Inc	YGFL	GFL CN	Michael Feniger
	H&E Equipment Services Inc	HEES	HEES US	Sherif El-Sabbahy
	Knife River Corp	KNF	KNF US	Sherif El-Sabbahy
	Republic Services	RSG	RSG US	Michael Feniger
	Techtronic Industries Co Ltd	TTNDF	669 HK	Michael Feniger
	Techtronic Industries Co Ltd	TTNDY	TTNDY US	Michael Feniger
	United Rentals Inc	URI	URI US	Michael Feniger
	Vulcan Materials	VMC	VMC US	Michael Feniger
	Waste Connections Inc	WCN	WCN US	Michael Feniger
	WillScot Mobile Mini	WSC	WSC US	Sherif El-Sabbahy
NEUTRAL				
	AGCO Corp	AGCO	AGCO US	Michael Feniger
	Cummins Inc	CMI	CMLUS	Michael Feniger
	Deere & Co	DE	DE US	Michael Feniger
	Fluor	FLR	FLR US	Michael Feniger
	Jacobs Eng.	1	JUS	Michael Feniger
	Kennametal Inc.	KMT	KMT US	Michael Feniger
	Martin Marietta Materials	MLM	MLM US	Michael Feniger
	NV5 Global Inc.	NVEE	NVEE US	Michael Feniger
	RB Global, Inc	RBA	RBA US	Michael Feniger
	Waste Management	WM	WM US	Michael Feniger

US - Machinery Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
UNDERPERFORM				
	Allison Transmission Holdings Inc.	ALSN	ALSN US	Sherif El-Sabbahy
	Casella	CWST	CWST US	Michael Feniger
	Herc Holdings Inc	HRI	HRI US	Sherif El-Sabbahy
	IPG Photonics	IPGP	IPGP US	Michael Feniger
	Oshkosh Corp.	OSK	OSK US	Michael Feniger
	PACCAR Inc	PCAR	PCAR US	Michael Feniger
	Terex Corp.	TEX	TEX US	Michael Feniger
	Timken Company	TKR	TKR US	Michael Feniger

IQmethodSM Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 - Tax Rate) + Goodwill Amortization	Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill
		Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt +	Sales
	Other LT Liabilities	
EV / EBITDA	Enterprise Value	Basic EBIT + Depreciation + Amortization

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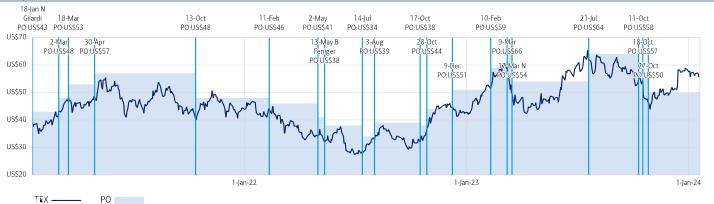
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Important Disclosures

Terex Corp. (TEX) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Machinery/Diversified Manufacturing Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	27	42.19%	Buy	8	29.63%
Hold	17	26.56%	Hold	8	47.06%
Sell	20	31.25%	Sell	8	40.00%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Inderperform	N/A	≥ 20%

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