

ETF Category Report **Equity: Sector - Industrial**

As of 3/28/2024

Flows & Product Growth | Structure | Performance Risk | Composition | Fundamentals

The ETF Action Category Reports present category averages, category breakdown, and ETF level data using the ETF Action Classification System. For more information, please reach out to team@etfaction.com.

ETF Action Category List

Alternative: Absolute Return - Event Driven Alternative: Absolute Return - Managed Futures Alternative: Absolute Return - Multi-Strategy Alternative: Speciatly - Volatility Asset Allocation: Specialty - Miscellaneous Asset Allocation: Target Date - 2015 Asset Allocation: Target Date - 2020 Asset Allocation: Target Date - 2025 Asset Allocation: Target Date - 2030 Asset Allocation: Target Date - 2035 Asset Allocation: Target Date - 2040 Asset Allocation: Target Date - 2045 Asset Allocation: Target Date - 2050 Asset Allocation: Target Date - 2055 Asset Allocation: Target Date - 2060 Asset Allocation: Target Date - 2065+ Asset Allocation: Target Date - Retirement Asset Allocation: Target Risk - Aggressive Asset Allocation: Target Risk - Conservative Asset Allocation: Target Risk - Global Macro Asset Allocation: Target Risk - Growth Asset Allocation: Target Risk - Moderate Asset Allocation: Target Risk - Tactical Commodity: Focused - Agriculture Commodity: Focused - Energy Commodity: Focused - Industrial Metals Commodity: Focused - Precious Metals Commodity: Multi-Sector - Broad Market Commodity: Specialty - Carbon Credits Commodity: Specialty - Shipping Freight Cryptocurrency Currency Equity: Dev Ex-U.S. Large Cap - Blend Equity: Dev Ex-U.S. Large Cap - Growth Equity: Dev Ex-U.S. Large Cap - Value Equity: Dev Ex-U.S. Small | Mid Cap Equity: Emerging Large Cap

Equity: Emerging Small | Mid Cap

Equity: Global Ex-U.S. Large Cap - Blend

Equity: Global Ex-U.S. Large Cap - Growth

Equity: Global Ex-U.S. Large Cap - Value Equity: Global Ex-U.S. Small | Mid Cap Equity: Global Large Cap Equity: Global Large Cap - Blend Equity: Global Large Cap - Growth Equity: Global Large Cap - Value Equity: Global Small | Mid Cap Equity: Region - Africa-Middle East Equity: Region - Asia-Pacific Equity: Region - Asia-Pacific Ex-Japan Equity: Region - Country Specific Equity: Region - Eurozone Equity: Region - Latin America Equity: Sector - Communication Services Equity: Sector - Consumer Discretionary Equity: Sector - Consumer Staples Equity: Sector - Energy Equity: Sector - Financials Equity: Sector - Health Care Equity: Sector - Industrial Equity: Sector - Materials Equity: Sector - Real Estate Equity: Sector - Technology Equity: Sector - Utilities Equity: Thematic - Disruptive Tech Equity: Thematic - Evolving Consumer Equity: Thematic - FinTech Equity: Thematic - Health Innovation Equity: Thematic - Industrial Revolution Equity: Thematic - Infrastructure Equity: Thematic - Midstream & MLPs Equity: Thematic - Miscellaneous Equity: Thematic - Multi-Sector Equity: Thematic - Natural Resources Equity: Thematic - Precious Metals Equity: Thematic - Sustainability Equity: U.S. Large Cap - Blend Equity: U.S. Large Cap - Growth Equity: U.S. Large Cap - Value

Equity: U.S. Mid Cap - Growth Equity: U.S. Mid Cap - Value Equity: U.S. Small Cap - Blend Equity: U.S. Small Cap - Growth Equity: U.S. Small Cap - Value Fixed Income: Municipal - Defined Maturity Fixed Income: Municipal - High Yield Fixed Income: Municipal - Intermediate Fixed Income: Municipal - Long Fixed Income: Municipal - Short Fixed Income: Municipal - Single State Fixed Income: Taxable - Bank Loans Fixed Income: Taxable - Convertible Fixed Income: Taxable - Core Fixed Income: Taxable - Core Enhanced Fixed Income: Taxable - Corporate Fixed Income: Taxable - Defined Maturity Fixed Income: Taxable - Emerging Fixed Income: Taxable - Emerging USD Fixed Income: Taxable - Governement Intermediate Fixed Income: Taxable - Government Long Fixed Income: Taxable - Government Short Fixed Income: Taxable - High Yield Fixed Income: Taxable - Inflation Protected Fixed Income: Taxable - International Fixed Income: Taxable - International USD Fixed Income: Taxable - Long-Term Fixed Income: Taxable - Multisector Fixed Income: Taxable - Preferred Stock Fixed Income: Taxable - Securitized Fixed Income: Taxable - Short-Term Fixed Income: Taxable - Ultrashort Non-Traditional: Buffer Non-Traditional: Interest Rate Volatility Non-Traditional: Leverage | Inverse Non-Traditional: Long | Short Non-Traditional: Option Overlay

Non-Traditional: Synthetic Income

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Equity: U.S. Mid Cap - Blend

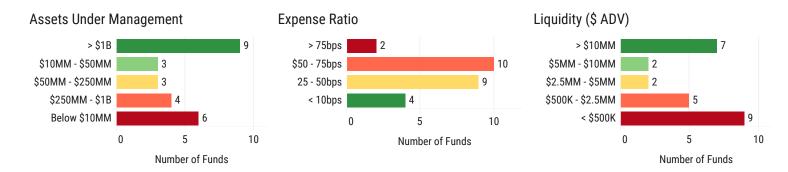
Overview & Structure

Category: Equity: Sector - Industrial



Fund Count	Assets Under Management	Average Expense Ratio	Average Lifespan	Average TTM Yield	Average Spread (%)	Average ADV (\$)
25	\$43.8B	0.45%	11.28 Years	1.62%	0.17%	\$53.43M

Breakdown of Category Universe Ratings



Top 10 Funds by Market Share

Ticker	Name	Inception	AUM	Expense Ratio	Distribution Yield (TTM)	Average Spread	ADV
XLI	Industrial Select Sector SPDR Fund	12/16/1998	\$18,242.13M	0.09%	1.46%	0.01%	\$1,103.15M
ITA	iShares U.S. Aerospace & Defense ETF	5/1/2006	\$6,090.09M	0.40%	0.89%	0.03%	\$54.90M
VIS	Vanguard Industrials ETF	9/23/2004	\$5,274.95M	0.10%	1.23%	0.04%	\$22.61M
PPA	Invesco Aerospace & Defense ETF	10/26/2005	\$3,032.10M	0.58%	0.62%	0.05%	\$15.00M
XAR	SPDR S&P Aerospace & Defense ETF	9/28/2011	\$2,111.89M	0.35%	0.55%	0.08%	\$10.63M
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	5/8/2007	\$1,972.61M	0.61%	0.69%	0.05%	\$5.28M
IYJ	iShares U.S. Industrials ETF	6/12/2000	\$1,566.35M	0.40%	0.93%	0.03%	\$8.89M
JETS	U.S. Global Jets ETF	4/28/2015	\$1,346.04M	0.60%	0.82%	0.05%	\$67.96M
FIDU	Fidelity MSCI Industrial Index ETF	10/21/2013	\$1,046.22M	0.08%	1.29%	0.04%	\$3.98M
IYT	iShares US Transportation ETF	10/6/2003	\$976.92M	0.40%	1.15%	0.05%	\$33.01M

Top 10 Funds by Greatest Avarage Daily Traded Value (ADV)

Ticker	Name	Inception	AUM	Expense Ratio	Distribution Yield (TTM)	Average Spread	ADV
XLI	Industrial Select Sector SPDR Fund	12/16/1998	\$18,242.13M	0.09%	1.46%	0.01%	\$1,103.15M
JETS	U.S. Global Jets ETF	4/28/2015	\$1,346.04M	0.60%	0.82%	0.05%	\$67.96M
ITA	iShares U.S. Aerospace & Defense ETF	5/1/2006	\$6,090.09M	0.40%	0.89%	0.03%	\$54.90M
IYT	iShares US Transportation ETF	10/6/2003	\$976.92M	0.40%	1.15%	0.05%	\$33.01M
VIS	Vanguard Industrials ETF	9/23/2004	\$5,274.95M	0.10%	1.23%	0.04%	\$22.61M
PPA	Invesco Aerospace & Defense ETF	10/26/2005	\$3,032.10M	0.58%	0.62%	0.05%	\$15.00M
XAR	SPDR S&P Aerospace & Defense ETF	9/28/2011	\$2,111.89M	0.35%	0.55%	0.08%	\$10.63M
IYJ	iShares U.S. Industrials ETF	6/12/2000	\$1,566.35M	0.40%	0.93%	0.03%	\$8.89M
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	5/8/2007	\$1,972.61M	0.61%	0.69%	0.05%	\$5.28M
FIDU	Fidelity MSCI Industrial Index ETF	10/21/2013	\$1,046.22M	0.08%	1.29%	0.04%	\$3.98M

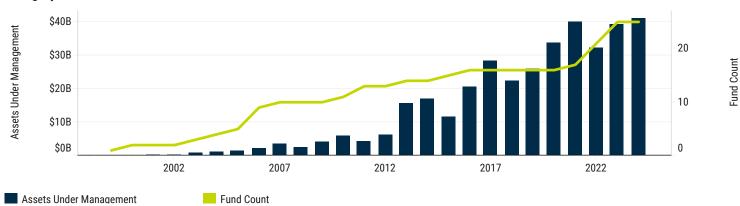
Flows & Category Growth

Category: Equity: Sector - Industrial



Fund Count	Assets Under Management	1 Month Flows	3 Month Flows	Year To Date Flows	1 Year Flows	3 Year Flows	5 Year Flows
25	\$43.8B	\$0.87B	\$1.08B	\$1.28B	\$1.59B	(\$4.85B)	\$5.90B

Category Growth



Top 10 Funds by 1 Month Flows

Ticker	Name	Inception	AUM	1 Month	3 Month	Year To Date	1 Year	3 Year	5 Year
XLI	Industrial Select Sector SPDR Fund	12/16/1998	\$18,242.13M	\$714.1M	\$1,030.6M	\$1,156.1M	\$998.0M	(\$4,994.0M)	\$935.5M
VIS	Vanguard Industrials ETF	9/23/2004	\$5,274.95M	\$76.1M	\$329.9M	\$329.9M	\$354.0M	(\$555.1M)	(\$272.6M)
IYJ	iShares U.S. Industrials ETF	6/12/2000	\$1,566.35M	\$67.5M	\$185.4M	\$185.4M	\$100.7M	(\$155.0M)	\$162.8M
PPA	Invesco Aerospace & Defense ETF	10/26/2005	\$3,032.10M	\$66.2M	\$64.4M	\$128.9M	\$584.5M	\$1,601.4M	\$1,347.2M
PRN	Invesco Dorsey Wright Industrials Momentum E	10/12/2006	\$261.59M	\$56.4M	\$41.3M	\$41.3M	\$67.5M	(\$79.4M)	\$42.4M
FIDU	Fidelity MSCI Industrial Index ETF	10/21/2013	\$1,046.22M	\$45.8M	\$64.2M	\$64.2M	\$130.2M	\$96.5M	\$243.6M
XAR	SPDR S&P Aerospace & Defense ETF	9/28/2011	\$2,111.89M	\$32.9M	\$49.1M	\$49.1M	\$287.3M	\$573.5M	\$419.6M
FXR	First Trust Industrials/Producer Durables Alpha	5/8/2007	\$1,972.61M	\$17.6M	\$26.9M	\$30.2M	(\$121.1M)	\$82.0M	\$1,045.6M
RSPN	Invesco S&P 500 Equal Weight Industrials ETF	11/1/2006	\$705.64M	\$12.3M	\$7.2M	\$7.2M	\$193.8M	\$112.2M	\$254.6M
EXI	iShares Global Industrials ETF	9/12/2006	\$572.69M	\$7.0M	(\$68.6M)	(\$68.6M)	\$131.2M	\$29.4M	\$180.1M

Bottom 10 Funds by 1 Month Flows

Ticker	Name	Inception	AUM	1 Month	3 Month	Year To Date	1 Year	3 Year	5 Year
JETS	U.S. Global Jets ETF	4/28/2015	\$1,346.04M	(\$105.5M)	(\$467.4M)	(\$461.6M)	(\$691.6M)	(\$1,425.7M)	\$1,332.8M
ITA	iShares U.S. Aerospace & Defense ETF	5/1/2006	\$6,090.09M	(\$97.0M)	(\$223.7M)	(\$223.7M)	(\$509.1M)	\$1,966.7M	\$190.3M
IYT	iShares US Transportation ETF	10/6/2003	\$976.92M	(\$31.3M)	\$16.6M	\$16.6M	\$17.1M	(\$1,001.3M)	(\$54.5M)
XTN	SPDR S&P Transportation ETF	1/26/2011	\$192.26M	(\$2.4M)	(\$8.9M)	(\$8.9M)	(\$73.0M)	(\$372.7M)	(\$0.6M)
FTXR	First Trust Nasdaq Transportation ETF	9/20/2016	\$40.10M	(\$1.5M)	(\$1.5M)	(\$1.5M)	(\$17.5M)	(\$902.0M)	(\$100.2M)
BOAT	SonicShares Global Shipping ETF	8/3/2021	\$43.39M	(\$0.8M)	\$6.3M	\$6.3M	\$21.1M	\$43.8M	\$43.8M
SUPP	TCW Transform Supply Chain ETF	2/15/2023	\$15.82M	\$0.0M	\$2.5M	\$2.5M	\$2.5M	\$2.5M	\$2.5M
AIRL	Themes Airlines ETF	12/8/2023	\$0.53M	\$0.0M	\$0.0M	\$0.0M	\$0.0M	\$0.0M	\$0.0M
GCAD	Gabelli Commercial Aerospace and Defense ETF	1/3/2023	\$5.06M	\$0.0M	\$0.3M	\$0.3M	\$0.5M	\$1.7M	\$1.7M
NRSH	Aztlan North America Nearshoring Stock Selecti	11/29/2023	\$9.76M	\$0.0M	\$1.1M	\$1.1M	\$9.2M	\$9.2M	\$9.2M

Category Performance

Category: Equity: Sector - Industrial



Fund Count	Average 1 Month	Average 3 Month	Average YTD	Average 1 Year	Average 3 Year	Average 5 Year	Average 10 Year
	Return	Return	Return	Return	Return**	Return**	Return**
25	3.13%	7.59%	7.59%	23.89%	4.82%	7.08%	6.18%

Breakdown of Category Performance

**Annualized



Top 10 Performers: 1 Month

Ticker	Name	Inception	AUM	1 Month	3 Month	YTD	1 Year	3 Year*	5 Year*
FXR	First Trust Industrials/Producer Durables AlphaDEX Fu	5/8/2007	\$1,972.61M	6.11%	12.60%	12.60%	35.41%	9.96%	13.86%
PSCI	Invesco S&P SmallCap Industrials ETF	4/7/2010	\$195.71M	5.08%	9.58%	9.58%	36.64%	12.40%	15.95%
GCAD	Gabelli Commercial Aerospace and Defense ETF	1/3/2023	\$5.06M	5.05%	8.88%	8.88%	25.70%		
VIS	Vanguard Industrials ETF	9/23/2004	\$5,274.95M	4.89%	11.04%	11.04%	32.12%	10.59%	13.45%
FIDU	Fidelity MSCI Industrial Index ETF	10/21/2013	\$1,046.22M	4.78%	11.06%	11.06%	32.31%	10.99%	13.88%
PRN	Invesco Dorsey Wright Industrials Momentum ETF	10/12/2006	\$261.59M	4.58%	17.90%	17.90%	49.61%	12.86%	18.47%
XLI	Industrial Select Sector SPDR Fund	12/16/1998	\$18,242.13M	4.42%	10.84%	10.84%	28.52%	10.35%	12.84%
RSPN	Invesco S&P 500 Equal Weight Industrials ETF	11/1/2006	\$705.64M	4.28%	10.93%	10.93%	30.63%	11.58%	15.99%
JETS	U.S. Global Jets ETF	4/28/2015	\$1,346.04M	4.22%	10.40%	10.40%	16.33%	-7.17%	-6.00%
EXI	iShares Global Industrials ETF	9/12/2006	\$572.69M	3.99%	9.62%	9.62%	26.85%	8.32%	11.28%

Bottom 10 Performers: 1 Month

Ticker	Name	Inception	AUM	1 Month	3 Month	YTD	1 Year	3 Year*	5 Year*
BOAT	SonicShares Global Shipping ETF	8/3/2021	\$43.39M	-2.49%	1.33%	1.33%	14.11%		
SEA	U.S. Global Sea to Sky Cargo ETF	1/20/2022	\$6.01M	-0.83%	0.18%	0.18%	11.21%		
SUPL	ProShares Supply Chain Logistics ETF	4/6/2022	\$2.01M	-0.04%	0.39%	0.39%	13.90%		
IYT	iShares US Transportation ETF	10/6/2003	\$976.92M	0.41%	7.59%	7.59%	27.88%	4.54%	9.83%
SHPP	Pacer Industrials and Logistics ETF	6/8/2022	\$1.12M	0.59%	3.67%	3.67%	14.73%		
NRSH	Aztlan North America Nearshoring Stock Selection ETF	11/29/2023	\$9.76M	1.88%	-0.32%	-0.32%			
XTN	SPDR S&P Transportation ETF	1/26/2011	\$192.26M	2.62%	1.79%	1.79%	21.22%	0.14%	8.11%
XAR	SPDR S&P Aerospace & Defense ETF	9/28/2011	\$2,111.89M	2.70%	3.88%	3.88%	21.80%	4.75%	9.67%
ITA	iShares U.S. Aerospace & Defense ETF	5/1/2006	\$6,090.09M	3.38%	4.42%	4.42%	16.79%	9.54%	6.93%
MISL	First Trust Indxx Aerospace & Defense ETF	10/25/2022	\$52.85M	3.46%	6.97%	6.97%	22.58%		

3 Year Risk Metrics

Category: Equity: Sector - Industrial

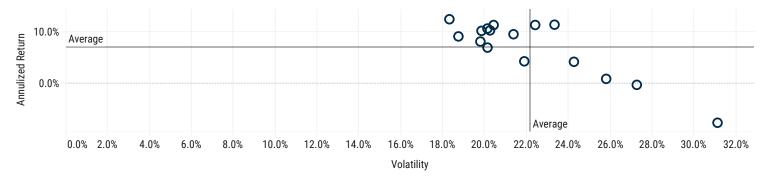


Fund Count	Average Return	Average Volatility	Average Correlation	Average Sharpe Ratio	Average Sortino Ratio	Average Beta	Average Alpha	Average Up Capture	Average Down Capture
25	7.13%	22.19%	0.85	0.34	0.68	1.06	-3.85%	88.35%	101.45%

Breakdown of Category Risk

Risk Benchmark: ACWI - iShares MSCI ACWI ETF

3 Year Risk-Return Scatterplot



Top 10 Funds by Sharpe Ratio (3 Year)

Risk Benchmark: ACWI - iShares MSCI ACWI ETF

Ticker	Name	AUM	Annualized Return	Volatility	Correlation (SPY)	Sharpe Ratio	Beta	Alpha	Up Capture	Down Capture
PPA	Invesco Aerospace & Defense ETF	\$3,032.1M	12.6%	18.3%	71.1%	0.65	0.74	4.4%	69.8%	50.2%
RSPN	Invesco S&P 500 Equal Weight Industrials	\$705.6M	11.4%	20.4%	92.7%	0.53	1.07	-0.3%	100.6%	100.3%
FIDU	Fidelity MSCI Industrial Index ETF	\$1,046.2M	10.8%	20.1%	92.7%	0.51	1.06	-0.8%	96.7%	97.5%
XLI	Industrial Select Sector SPDR Fund	\$18,242.1M	10.3%	19.8%	91.6%	0.50	1.03	-0.9%	94.2%	95.9%
VIS	Vanguard Industrials ETF	\$5,275.0M	10.4%	20.2%	92.4%	0.49	1.06	-1.2%	96.0%	98.1%
PSCI	Invesco S&P SmallCap Industrials ETF	\$195.7M	11.5%	22.4%	85.2%	0.49	1.08	0.0%	96.1%	93.9%
ITA	iShares U.S. Aerospace & Defense ETF	\$6,090.1M	9.2%	18.7%	64.0%	0.47	0.68	2.1%	57.3%	45.9%
PRN	Invesco Dorsey Wright Industrials Momen	\$261.6M	11.5%	23.3%	86.4%	0.47	1.14	-0.5%	100.0%	99.2%
FXR	First Trust Industrials/Producer Durables	\$1,972.6M	9.6%	21.4%	91.3%	0.43	1.11	-2.2%	100.4%	107.7%
EXI	iShares Global Industrials ETF	\$572.7M	8.2%	19.8%	93.7%	0.40	1.05	-3.1%	96.2%	107.7%

Top 10 Funds by Greatest Alpha (3 Year)

Risk Benchmark: ACWI - iShares MSCI ACWI ETF

Ticker	Name	AUM	Annualized Return	Volatility	Correlation (SPY)	Sharpe Ratio	Beta	Alpha	Up Capture	Down Capture
PPA	Invesco Aerospace & Defense ETF	\$3,032.1M	12.6%	18.3%	71.1%	0.65	0.74	4.4%	69.8%	50.2%
ITA	iShares U.S. Aerospace & Defense ETF	\$6,090.1M	9.2%	18.7%	64.0%	0.47	0.68	2.1%	57.3%	45.9%
PSCI	Invesco S&P SmallCap Industrials ETF	\$195.7M	11.5%	22.4%	85.2%	0.49	1.08	0.0%	96.1%	93.9%
RSPN	Invesco S&P 500 Equal Weight Industrials	\$705.6M	11.4%	20.4%	92.7%	0.53	1.07	-0.3%	100.6%	100.3%
PRN	Invesco Dorsey Wright Industrials Moment	\$261.6M	11.5%	23.3%	86.4%	0.47	1.14	-0.5%	100.0%	99.2%
FIDU	Fidelity MSCI Industrial Index ETF	\$1,046.2M	10.8%	20.1%	92.7%	0.51	1.06	-0.8%	96.7%	97.5%
XLI	Industrial Select Sector SPDR Fund	\$18,242.1M	10.3%	19.8%	91.6%	0.50	1.03	-0.9%	94.2%	95.9%
VIS	Vanguard Industrials ETF	\$5,275.0M	10.4%	20.2%	92.4%	0.49	1.06	-1.2%	96.0%	98.1%
FXR	First Trust Industrials/Producer Durables A	\$1,972.6M	9.6%	21.4%	91.3%	0.43	1.11	-2.2%	100.4%	107.7%
EXI	iShares Global Industrials ETF	\$572.7M	8.2%	19.8%	93.7%	0.40	1.05	-3.1%	96.2%	107.7%

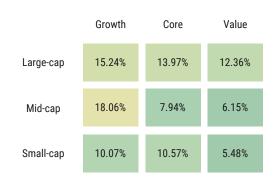
Equity Composition

Category: Equity: Sector - Industrial

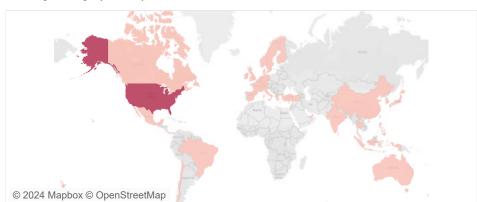


Fund Count*	Assets Under	Average Top 10 Holdings	Average Weighted Avg	Average Sector	Average Stock
	Management	Weight	Market Cap	Concentration	Concentration
25	\$43.8B	44.90%	\$53,672M	High	Average

Average Size & Style Exposure



Average Geographic Exposure



83.22%

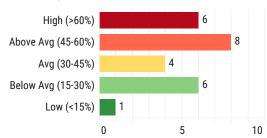
9.05%

7.15%

0.38%

0.20%

Category Breakdown: Stock Concentration



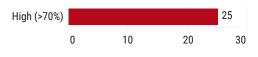
Average Market Development		Average Regional Exposure
U.S.	78.79%	North America
Developed ex-U.S.	17.13%	Europe
Emerging	2.75%	Asia Pacific
Frontier	0.22%	Latin America
Rest of World	1.09%	Africa
Unassigned	0.00%	Unassigned

Average Top 10 Country Exposure

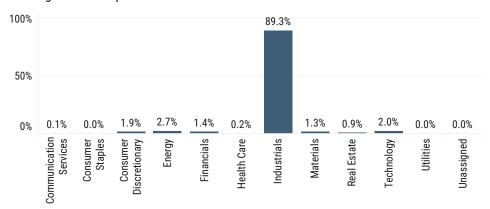
United States	78.80%
Canada	3.08%
Japan	2.40%
Ireland	2.23%
United Kingdom	1.71%
Germany	1.46%
China	1.10%
Hong Kong	1.05%
Bermuda	0.88%
Denmark	0.70%

Stock Concentration measured by weighting in top 10 portfolio holdings.

Category Breakdown: Sector Concentration



Average Sector Exposure



Sector Concentration measured by greatest weight within one sector of the portfolio

^{*}Fund count for composition and fundamentals excludes funds with no recent holdings date (ie: ETNs)

Equity Fundamentals

Category: Equity: Sector - Industrial

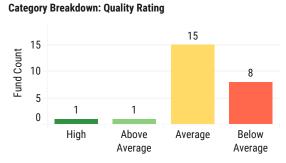


Valuation

Fund Count		ount*	Avg Price / Earnings (TTM		Avg Price / rnings (NTM)	-	ice / Sales TTM)	Avg Price / Sales (NTM)	Avg Price / Cash Flow (TTM)	Avg Price / Free Cash Flow (TTM)	Avg Price / Book (TTM)
	2	5	21.34		18.43	1	.59	1.59	12.82	21.26	3.22
Cate	Category Breakdown: Value Rating				Top 1	0 Funds b	y Value Score				
	15			13		Ticker	Name			AUM	Value Rating (0-5)
Ħ	4.0					AIRL	Themes Airlin	nes ETF		\$0.53M	4.81
Fund Count	10	7				JETS	U.S. Global Je	ets ETF		\$1,346.04M	4.65
b B		/				SEA	U.S. Global So	ea to Sky Cargo ETF		\$6.01M	4.65
큔	5		4			BOAT	SonicShares	Global Shipping ETF		\$43.39M	4.59
					1	FTXR	First Trust Na	sdaq Transportation ET	F	\$40.10M	4.57
	0							ansportation ETF		\$192.26M	4.51
		High	Above	Average	Low			SmallCap Industrials ETF		\$195.71M	4.08
		riigii	Average	Avelage	LOW	FXR	First Trust Inc	dustrials/Producer Durat	oles AlphaDEX Fund	\$1,972.61M	3.36
			Average			IYT	iShares US Tr	ansportation ETF		\$976.92M	3.22
						SUPL	ProShares Su	pply Chain Logistics ETF	\$2.01M	3.10	

Quality

Fund Count*	Avg Return On Equity	Avg Return On Assets	Avg Return On Invested Capital	Avg Long Term Debt / Equity	Avg Interest Coverage
25	19.2%	8.2%	10.3%	92.9%	12.6%



Top 10 Funds by Quality Score

Ticker	Name	AUM	Quality Rating (0-5)
SEA	U.S. Global Sea to Sky Cargo ETF	\$6.01M	4.27
BOAT	SonicShares Global Shipping ETF	\$43.39M	3.54
PRN	Invesco Dorsey Wright Industrials Momentum ETF	\$261.59M	2.94
EXI	iShares Global Industrials ETF	\$572.69M	2.56
SUPP	TCW Transform Supply Chain ETF	\$15.82M	2.52
SUPL	ProShares Supply Chain Logistics ETF	\$2.01M	2.52
RSPN	Invesco S&P 500 Equal Weight Industrials ETF	\$705.64M	2.41
XLI	Industrial Select Sector SPDR Fund	\$18,242.13M	2.38
IYJ	iShares U.S. Industrials ETF	\$1,566.35M	2.34
PSCI	Invesco S&P SmallCap Industrials ETF	\$195.71M	2.28

Growth

Fund Count*	Avg LT Earnings	Avg Earnings Growth (TTM)	Avg Earnings Growth (NTM)	Avg Sales Growth (TTM)	Avg Sales Growth (NTM)	Avg Cash Flow Growth (TTM)	Avg Book Growth (TTM)	Avg Dividend Growth (TTM)
25	12.4%	14.4%	20.7%	4.6%	4.9%	11.0%	8.2%	9.1%
Category Breakdov	wn: Growth Rating		Top 10	Funds by Grow	th Score			

15 Count of Category High Below Average Above Average Average

Top 10 Fur	nds by Gro	owth Score
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Ticker	Name	AUM	Growth Rating (0-5)
ITA	iShares U.S. Aerospace & Defense ETF	\$6,090.09M	4.00
XAR	SPDR S&P Aerospace & Defense ETF	\$2,111.89M	3.34
GCAD	Gabelli Commercial Aerospace and Defense ETF	\$5.06M	3.29
MISL	First Trust Indxx Aerospace & Defense ETF	\$52.85M	3.27
JETS	U.S. Global Jets ETF	\$1,346.04M	3.16
PPA	Invesco Aerospace & Defense ETF	\$3,032.10M	3.14
SUPP	TCW Transform Supply Chain ETF	\$15.82M	2.80
AIRL	Themes Airlines ETF	\$0.53M	2.71
RSPN	Invesco S&P 500 Equal Weight Industrials ETF	\$705.64M	2.46
IYJ	iShares U.S. Industrials ETF	\$1,566.35M	2.39

^{*}Fund count for composition and fundamentals excludes funds with no recent holdings date (ie: ETNs)

Appendix: Category Funds



Appendix: Top Category Funds 1-50 By AUM

Ticker	Name	Inception	AUM	1 Month	3 Month	YTD	1 Year	3 Year*	5 Year*
XLI	Industrial Select Sector SPDR Fund	12/16/1998	\$18,242M	4.42%	10.84%	10.84%	28.52%	10.35%	12.84%
ITA	iShares U.S. Aerospace & Defense ETF	5/1/2006	\$6,090M	3.38%	4.42%	4.42%	16.79%	9.54%	6.93%
VIS	Vanguard Industrials ETF	9/23/2004	\$5,275M	4.89%	11.04%	11.04%	32.12%	10.59%	13.45%
PPA	Invesco Aerospace & Defense ETF	10/26/2005	\$3,032M	3.91%	10.34%	10.34%	28.25%	12.85%	12.86%
XAR	SPDR S&P Aerospace & Defense ETF	9/28/2011	\$2,112M	2.70%	3.88%	3.88%	21.80%	4.75%	9.67%
FXR	First Trust Industrials/Producer Durables AlphaDEX Fund	5/8/2007	\$1,973M	6.11%	12.60%	12.60%	35.41%	9.96%	13.86%
IYJ	iShares U.S. Industrials ETF	6/12/2000	\$1,566M	3.90%	10.14%	10.14%	29.01%	7.11%	11.83%
JETS	U.S. Global Jets ETF	4/28/2015	\$1,346M	4.22%	10.40%	10.40%	16.33%	-7.17%	-6.00%
FIDU	Fidelity MSCI Industrial Index ETF	10/21/2013	\$1,046M	4.78%	11.06%	11.06%	32.31%	10.99%	13.88%
IYT	iShares US Transportation ETF	10/6/2003	\$977M	0.41%	7.59%	7.59%	27.88%	4.54%	9.83%
RSPN	Invesco S&P 500 Equal Weight Industrials ETF	11/1/2006	\$706M	4.28%	10.93%	10.93%	30.63%	11.58%	15.99%
EXI	iShares Global Industrials ETF	9/12/2006	\$573M	3.99%	9.62%	9.62%	26.85%	8.32%	11.28%
PRN	Invesco Dorsey Wright Industrials Momentum ETF	10/12/2006	\$262M	4.58%	17.90%	17.90%	49.61%	12.86%	18.47%
PSCI	Invesco S&P SmallCap Industrials ETF	4/7/2010	\$196M	5.08%	9.58%	9.58%	36.64%	12.40%	15.95%
XTN	SPDR S&P Transportation ETF	1/26/2011	\$192M	2.62%	1.79%	1.79%	21.22%	0.14%	8.11%
MISL	First Trust Indxx Aerospace & Defense ETF	10/25/2022	\$53M	3.46%	6.97%	6.97%	22.58%		
BOAT	SonicShares Global Shipping ETF	8/3/2021	\$43M	-2.49%	1.33%	1.33%	14.11%		
FTXR	First Trust Nasdaq Transportation ETF	9/20/2016	\$40M	3.81%	7.72%	7.72%	23.09%	1.62%	8.01%
SUPP	TCW Transform Supply Chain ETF	2/15/2023	\$16M	3.97%	16.18%	16.18%	38.61%		
NRSH	Aztlan North America Nearshoring Stock Selection ETF	11/29/2023	\$10M	1.88%	-0.32%	-0.32%			
SEA	U.S. Global Sea to Sky Cargo ETF	1/20/2022	\$6M	-0.83%	0.18%	0.18%	11.21%		
GCAD	Gabelli Commercial Aerospace and Defense ETF	1/3/2023	\$5M	5.05%	8.88%	8.88%	25.70%		
SUPL	ProShares Supply Chain Logistics ETF	4/6/2022	\$2M	-0.04%	0.39%	0.39%	13.90%		
SHPP	Pacer Industrials and Logistics ETF	6/8/2022	\$1M	0.59%	3.67%	3.67%	14.73%		
AIRL	Themes Airlines ETF	12/8/2023	\$1M	3.68%	2.67%	2.67%			

^{*}Annualized performance. Returns based on market price.

Appendix: Category Funds



Appendix: Top Category Funds 51-100 By AUM

 $[\]hbox{*Annualized performance. Returns based on market price.}$

Definitions & Disclosures



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The historical returns presented include all items of dividends and interest net of fees unless otherwise stated. Model portfolio and blended model portfolio analysis utilizes position data provided by the model sponsor and/or the user back to the initial asset allocation date provided. There is no guarantee that these hypothetical returns could or would have been achieved had this asset allocation or model portfolio been used during the years presented. Results shown are provided for illustrative purposes only. Past performance is not indicative of future results.

Performance data are based on actual returns of the investment strategies and securities in the portfolio and are provided for illustrative purposes only. Data and performance may be limited due to lack of published performance data either by the issuer or investment manager, or the availability of such data sources to FactSet. Aggregated data and average performance figures are calculated as simple averages of all funds that existed at that point in time for a specific category. All funds currently classified within a category will contribute to average historical performance figures such that a survivorship bias may be present for average category performance figures.

Past performance is not an indicator of future performance. The model portfolio and blended model portfolio returns presented are calculated based on historical investment position data provided by the model sponsor and/or user. The returns do not reflect the actual trading of any account or group of accounts and are thereby hypothetical in nature. Model position changes are implemented using closing prices on position date provided unless otherwise stated and the returns reflect the reinvestment of dividends and interest. The impact of fund fees held in the model portfolios is reflected in the returns for all periods presented. Model portfolio returns shown are net of fees provided by model sponsor and/or user and are prominently displayed in each model portfolio.

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Global equities are equities that span across both developed countries and emerging markets. Investments in international and emerging markets securities include exposure to risks such as currency fluctuations, foreign taxes and regulations, and the potential for illiquid markets and political instability.

International Equities are equities that span across both developed countries and emerging markets, excluding U.S. equities. Investments in international and emerging markets securities include exposure to risks such as currency fluctuations, foreign taxes and regulations, and the potential for illiquid markets and political instability.

Developed international equities are large cap and mid cap equities in developed countries excluding the U.S. and Canada. International investments involve greater risks than U.S. investments, and can decline significantly in response to adverse issuer, political, regulatory, market, and economic risks.

Emerging market equities are large cap and mid cap equities in emerging market countries. Emerging market countries are countries with economies that are considered rapidly expanding and engaging aggressively in global markets. In addition to the risks associated with all international investing, inflation and rapid fluctuations in inflation rates have had, and may continue to have, negative effects on the economies and securities markets of certain emerging market countries.

Investment grade fixed income securities include broad fixed income, corporate securities, municipal bonds, treasuries, and mortgage backed securities (MBS). Investment grade securities are believed to be at less risk of default and rated higher by the credit rating agencies. In general, the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa). This effect is usually more pronounced for longer-term securities.

Fixed income securities also carry inflation risk, liquidity risk, call risk and credit and default risks for both issuers and counterparties. The municipal market can be affected by adverse tax, legislative, or political changes, and by the financial condition of the issuers of municipal securities. MBS are subject to prepayment and extension risk; as such, they react differently to changes in interest rates than other bonds. Small movements in interest rates may quickly and significantly reduce the value of certain MBS.

Alternative fixed income asset class includes high yield, preferreds, bank loans, currency funds, developed non-US debt, emerging market debt, TIPS, and floaters. Lower-quality fixed income securities found in this category involve greater risk of default or price changes due to potential changes in the credit quality of the issuer. Any fixed-income security sold or redeemed prior to maturity may be subject to loss. Additionally, non-US/emerging market debt assumes the same risks as international investing.

Cash & Equivalents include direct cash positions and underlying cash positions within fund positions within a model. This also includes money market funds that may be held by the model or underlying positions.

Unassigned designations are used for positions that include options, commodities contracts, or other derivatives, and may not have composition data available.

Commodities include securities that tract bulk goods and raw materials, such as grains, metals, livestock, oil, cotton, coffee, sugar, and cocoa, that are used to produce consumer products. Buying commodities allows for a source of diversification for those sophisticated persons who wish to add this asset class to their portfolios and who are prepared to assume the risks inherent in the commodities market. Any commodity purchase represents a transaction in a non-income-producing asset and is highly speculative. Therefore, commodities should not represent a significant portion of an individual's portfolio.

Alternatives are securities that are typically less or inversely correlated with Equities and Fixed Income such as Index Volatility ETFs. Alternative investments are often non income producing and highly speculative. Therefore, alternative investments should not represent a significant portion of an individual's portfolio.

Dividends are not guaranteed and are subject to change or elimination.

ETFs are subject to substantially the same risks as those associated with the direct ownership of the underlying securities owned by the ETF. Additionally, the value of the investment will fluctuate in response to the performance of the underlying index or securities. ETFs typically charge therefore, investments in ETFs will result in the layering of expenses.

Definitions & Disclosures



DEFINITIONS:

Acquired Fund Fees is the weighted average of the expense ratios of all model holdings.

Distribution yield refers to the percentage of income a portfolio has distributed to investors over the last 12 months. At the model level, this is calculated as a weighted average of TTM yield for all model holdings. This is based on fund and/or stock distributions, and is not a look-through calculation.

Geometric return is a measure of the compound rate of growth in a portfolio. This method eliminates the distorting effects created by inflows of new money. This is also called the 'geometric mean return,' as the reinvestment is captured by using the geometric total and mean, rather than the arithmetic total and mean. It is assumed that all cash distributions are reinvested in the portfolio and the exact same periods are used for comparisons. The difference between the two return measures is caused by volatility. The more volatile the asset class, the bigger the difference between its geometric and average annual returns. The geometric mean return is typically lower than the arithmetic mean return.

Pure gross returns are calculated before the deduction of advisory fees, trading expenses and other fees. Net of fees performance reflects the deduction of the advisory fees charged to the client, trading expenses, and other costs associated with investments made by the client. Returns do not include the reinvestment of dividends.

Standard deviation is a measure of the dispersion of a set of data from its mean. The more spread apart the data is, the higher the deviation. Calculated using monthly returns.

Alpha refers to the performance differential between a specific investment and that of the investment's beta multiplied by its benchmark. It isolates the portion of total return not accredited to movement in the broader market. Calculated using monthly returns.

Beta is a measure of the volatility—or systematic risk—of a security or portfolio compared to its relative benchmark. Securities with betas higher than 1.0 can be interpreted as more volatile relative to movements in the market benchmark while securities with a beta less than 1.0 can be interpreted as less volatile relative to movements in the market benchmark. Calculated using monthly returns.

The Sharpe ratio is the average return earned in excess of the risk-free rate per unit of volatility or total risk. Volatility is a measure of the price fluctuations of an asset or portfolio. Calculated using monthly returns.

The correlation coefficient is a statistical measure of the strength of the relationship between the relative movements of two variables. The values range between -1.0 and 1.0. A calculated number greater than 1.0 or less than -1.0 means that there was an error in the correlation measurement. A correlation of -1.0 shows a perfect negative correlation, while a correlation of 1.0 shows a perfect positive correlation. A correlation of 0.0 shows no linear relationship between the movement of the two variables. Calculated using monthly returns.

R-squared (R2) is a statistical measure that represents the proportion of the variance for a dependent variable that's explained by an independent variable or variables in a regression model. Calculated using monthly returns.

Tracking error is the divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark. This is often in the context of a hedge fund, mutual fund, or exchange-traded fund (ETF) that did not work as effectively as intended, creating an unexpected profit or loss. Tracking error is reported as a standard deviation percentage difference, which reports the difference between the return an investor receives and that of the benchmark they were attempting to imitate. Calculated using monthly returns.

The upside capture ratio measures an investment manager's relative performance during bull markets. The ratio is calculated by comparing the manager's returns in up-markets with that of a benchmark. Calculated using monthly returns.

The down-market capture ratio is a statistical measure of an investment manager's overall performance in down-markets. It is used to evaluate how well an investment manager performed relative to an index during periods when that index has dropped. The ratio is calculated by dividing the manager's returns by the returns of the index during the down-market and multiplying that factor by 100. Calculated using monthly returns.

A drawdown refers to how much an investment or trading account is down from the peak before it recovers back to the peak. Drawdowns are typically quoted as a percentage, but dollar terms may also be used if applicable for a specific trader. Drawdowns are a measure of downside volatility. Calculated using monthly returns.

Market capitalization is the sum of the total value of a company's outstanding shares multiplied by the price of one share. With a weighted average market capitalization, components that have a higher market cap have more influence because they constitute a higher percentage in the index; those with smaller caps have less influence.

The Price/Earnings Ratio or P/E Ratio is a valuation metric that assesses how many dollars investors are willing to pay for one dollar of a company's earnings. It's calculated by dividing a stock's price by the company's trailing 12-month earnings per share from continuous operations. Negative P/E ratios are excluded. Calculated using weighted harmonic average.

The forward (or leading) P/E uses future earnings guidance rather than trailing figures. Negative P/E ratios are excluded. Calculated using weighted harmonic average.

The Price/Sale (P/S) ratio is a stock's current price divided by the company's trailing 12-month sales per share. This represents the weighted average of the price/sales ratios of the stocks in a fund's portfolio. Price/sales represents the amount an investor is willing to pay for a dollar generated from a particular company's operations. Calculated using weighted harmonic average.

The forward (or leading) P/S uses future sales estimates rather than trailing figures. Calculated using weighted harmonic average.

The price/book (P/B) ratio of a fund is the weighted average of the price/book ratios of all the stocks in a fund's portfolio. Book value is the total assets of a company, less total liabilities (sometimes referred to as carrying value). A company's book value is calculated by dividing the market price of its outstanding stock by the company's book value, and then adjusting for the number of shares outstanding (Stocks with negative book values are excluded from this calculation.). Calculated using weighted harmonic average.

The price-to-cash flow (P/CF) ratio is a stock valuation indicator or multiple that measures the value of a stock's price relative to its operating cash flow per share over the trailing twelve months. The ratio uses operating cash flow (OCF), which adds back non-cash expenses such as depreciation and amortization to net income. Calculated using weighted harmonic average.

Price to free cash flow is an equity valuation metric used to compare a company's per-share market price to its per-share amount of free cash flow (FCF) over the trailing twelve months. This metric is very similar to the valuation metric of price to cash flow but is considered a more exact measure, owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available to fund non-asset-related growth. Negative P/E ratios are excluded. Calculated using weighted harmonic average.

The price/earnings to growth ratio (PEG ratio) is a stock's price-to-earnings (P/E) ratio divided by the growth rate of its earnings for a specified time period (NTM - next twelve months). The PEG ratio is used to determine a stock's value while also factoring in the company's expected earnings growth, and it is thought to provide a more complete picture than the more standard P/E ratio. Calculated using weighted harmonic average.

The dividend yield, expressed as a percentage, is a financial ratio (dividend/price) that shows how much a company pays out in dividends each year relative to its stock price. Unless otherwise stated, dividend yield takes the distributions over the trailing 12 months divided by the price on the as of date. Note that the dividend yield is a look through of all funds and securities to underlying holdings, and may not reflect what the fund or model actually distributes. Calculated using weighted harmonic average.

Gross margin is a ratio that equates to net sales minus the cost of goods sold divided by net sales. The gross margin shows the ratio of profit made before deducting selling, general, and administrative (SG&A) costs. Calculated using weighted average.

Definitions & Disclosures



The net margin is a measure of profitability. It is equal to annual net income divided by revenues over the trailing 12 months. The resulting figure is then multiplied by 100. Calculated using weighted average.

Return on equity (ROE) is the percentage a company earns on its total equity in a given year. ROE shows how much profit a company generates on the money shareholders have invested in the firm. Calculated using weighted average.

Return on assets (ROA) is the percentage a company earns on its assets in a given year (Year 1, 2, etc.). The calculation is net income divided by end-of-year total assets. The resulting figure is then multiplied by 100. For a mutual fund, ROA represents a weighted median figure such that approximately 50% of the domestic stocks in the portfolio will have a greater ROA and roughly 50% of these domestic stocks will have a lower ROA than the weighted median. Calculated using weighted average.

Return on invested capital (ROIC) is the percentage of money a company earns that is above the average cost it pays for its debt and equity capital. Calculated using weighted average.

The interest coverage ratio is a debt and profitability ratio used to determine how easily a company can pay interest on its outstanding debt. The interest coverage ratio is calculated by dividing a company's earnings before interest and taxes (EBIT) by its interest expense during a given period. Calculated using weighted average.

The debt-to-equity (D/E) ratio is used to evaluate a company's financial leverage and is calculated by dividing a company's total liabilities by its shareholder equity. Calculated using weighted average.

The payout ratio, also known as the dividend payout ratio, shows the percentage of a company's earnings paid out as dividends to shareholders over the trailing twelve months. Calculated using weighted average.

Per share growth metrics calculate the growth metrics over the trailing twelve months (TTM) or estimated growth metrics over the next twelve months (NTM) for Earnings, Sales, Cash Flow, Free Cash Flow, Book Value, and Dividends. Calculated using weighted median.

Long-Term earnings (LT Earnings) calculates the growth in earnings per share over longer time horizons (5 years). Calculated using weighted median.

The coupon rate is calculated by weighting each bond's coupon by its relative size in the portfolio. It indicates whether the underlying fund owns more high- or low-coupon bonds. There can be advantages to holding higher coupon bonds, but many funds buy them simply to tempt investors with a high payout. This can be damaging to investors for two reasons. The first is that higher-coupon bonds often carry greater risk than lower-coupon issues. The second is that when these bonds don't carry extra risk, they are old issues that the fund has paid up for and if the offering doesn't amortize the extra yield, investors are likely to find that their principal erodes over time. Calculated using weighted average.

Effective duration is a measure of a fund's interest-rate sensitivity; the longer a fund's duration, the more sensitive the fund is to shifts in interest rates. Duration is determined by a formula that includes coupon rates and bond maturities. Small coupons tend to increase duration, while shorter maturities and higher coupons shorten duration. The relationship between funds with different durations is straightforward: A fund with a duration of 10 years is twice as volatile as a fund with a five-year duration. Calculated using weighted average.

Modified Duration expresses the measurable change in the value of a security in response to a change in interest rates Calculated using weighted average.

Average effective maturity is a weighted average of all the maturities of the bonds in a portfolio, computed by weighting each bond's effective maturity by the market value of the security. Average effective maturity takes into consideration all mortgage prepayments, puts, and adjustable coupons. Longer-maturity funds are generally considered more interest-rate sensitive than their shorter counterparts. We list Average Effective Maturity for Taxable Fixed-Income and Hybrid funds and Average Nominal Maturity for Municipal Bond Funds. Since this is collected by survey, it is important to bear in mind that different fund companies may use different interest-rate assumptions in determining call likelihood and timing. Generally speaking, the longer the maturity, the greater the interest rate risk. When duration is unavailable, this is used in the calculation of the fixed income style box. Calculated using weighted average.

Yield to Maturity: is the holding weighted average yield of all applicable holdings within a portfolio. Yield is a measure of the expected rate of return. Calculation of yield to maturity of a security ignores the impact of options such as a call or put feature. Calculated using weighted average.

Yield to worst is calculated on all possible call dates. It is assumed that prepayment occurs if the bond has call or put provisions and the issuer can offer a lower coupon rate based on current market rates. If market rates are higher than the current yield of a bond, the yield to worst calculation will assume no prepayments are made, and yield to worst will equal the yield to maturity.

The assumption is made that prevailing rates are static when making the calculation. The yield to worst will be the lowest of yield to maturity or yield to call (if the bond has prepayment provisions); yield to worst may be the same as yield to maturity but never higher. Calculated using weighted average.

Convexity demonstrates how the duration of a bond changes as the interest rate changes. If a bond's duration increases as yields increase, the bond is said to have negative convexity. If a bond's duration rises and yields fall, the bond is said to have positive convexity. Calculated using weighted average.

Key rate duration measures how the value of a debt security or a debt instrument portfolio, generally bonds, changes at a specific maturity point along the entirety of the yield curve. When keeping other maturities constant, the key rate duration is used to measure the sensitivity in a debt security's price to a 1% change in yield for a specific maturity.

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