

VIRTUS KAR MID-CAP GROWTH FUND

December 31, 2023

IMPORTANT RISK CONSIDERATIONS



Equity Securities

The market price of equity securities may be adversely affected by financial market, industry, or issuer-specific events. Focus on a particular style or on small, medium, or large-sized companies may enhance that risk.

Technology Concentration

Because the portfolio is presently heavily weighted in the technology sector, it will be impacted by that sector's performance more than a portfolio with broader sector diversification.

Market Volatility

The value of the securities in the portfolio may go up or down in response to the prospects of individual companies and/or general economic conditions. Local, regional, or global events such as war or military conflict, terrorism, pandemic, or recession could impact the portfolio, including hampering the ability of the portfolio's manager(s) to invest its assets as intended.

Prospectus

For additional information on risks, please see the fund's prospectus.

VIRTUS INVESTMENT PARTNERS

MULTI-ASSET MANAGER



KEY FACTS

\$172.3

Billion in
AUM

38

Funds Rated
4 or 5 Stars¹



Past performance is not indicative of future results.

As of 12/31/23. ¹Based on INST class or I shares. Please see page 19 for additional Morningstar disclosure. Strong ratings are not indicative of positive fund performance. ²Newfleet Asset Management, Seix Investment Advisors, and Stone Harbor Investment Partners are divisions of Virtus Fixed Income Advisers, LLC ("VFIA"), an SEC registered investment adviser. Virtus has a majority or minority interest in the managers shown, with exception of Voya Investment Management.

At a Glance

- Year Founded: 1984
- Headquarters:
Los Angeles, CA
- AUM: \$59.6 billion*
- Number of Investment Professionals: 21
- Average Investment Experience: 16 Years
- A wholly owned, independent subsidiary of Virtus Investment Partners

- Originally established to manage founder capital
- Over three decades of experience
- A differentiated “business analyst” investment approach focusing on high-quality businesses**
- A disciplined and repeatable investment process that produces high-conviction portfolios

Investment Philosophy

Businesses with sustainable competitive advantages can maintain above-average growth and are better positioned to exceed consensus growth expectations, which should lead to excess shareholder returns over a full market cycle

Strives to achieve a return meaningfully above that of the Russell Midcap[®] Growth Index, with similar risk characteristics overall relative to the benchmark***

Source: Kayne Anderson Rudnick

*AUM as of December 31, 2023. Figures in USD.

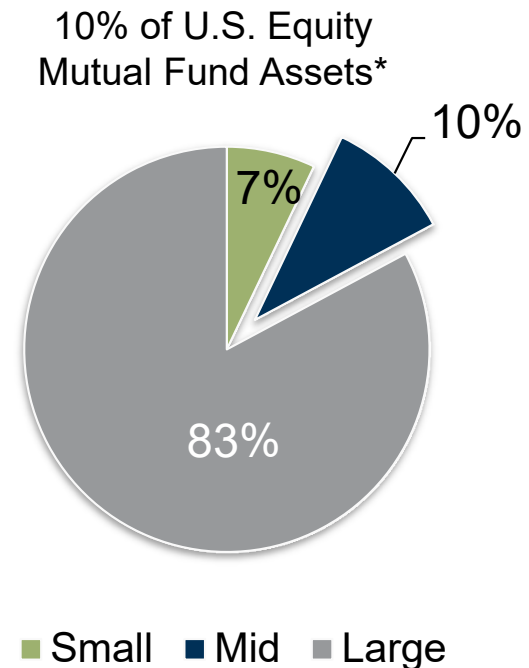
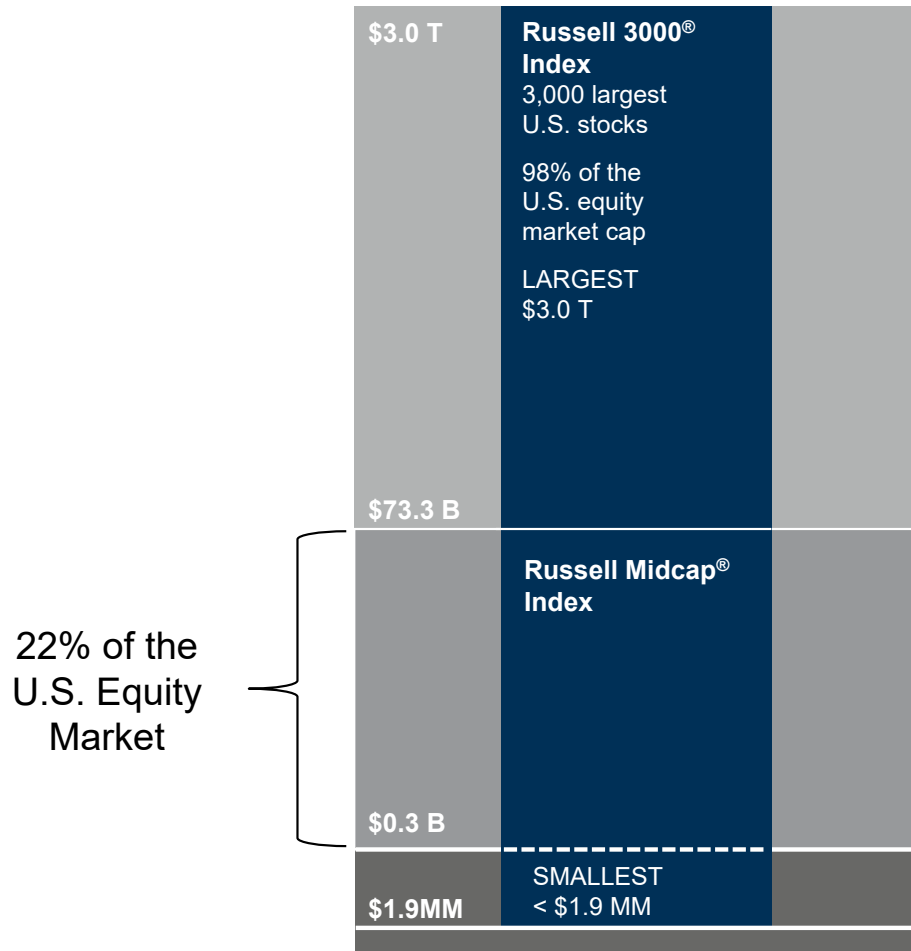
**Please refer to the “Tenets of Quality: Our Quality Business Assessment” slide 8 for KAR’s definition of high-quality businesses.

***There is no guarantee that the portfolio will meet its objective.

Portfolio Manager/Analyst	Responsibility	Sector Coverage	Research Start Date	KAR Start Date
Chris Armbruster, CFA	Portfolio Manager Senior Research Analyst	Communication Services Consumer Discretionary Health Care Information Technology	2005	2013
Noran Eid	Portfolio Manager Senior Research Analyst	Consumer Discretionary Health Care Information Technology	2012	2018
Douglas S. Foreman, CFA	Portfolio Manager		1986	2011
Richard Sherry, CFA	Senior Research Analyst	Communication Services Energy Financials Real Estate Utilities	1998	1995
Katie Advena	Research Analyst	Consumer Staples Health Care Industrials Materials	2011	2015
Luke Longinotti	ESG Research Analyst		2020	2023
Clarissa Ali	Associate Research Analyst		2023	2018

WHY MID CAP?

AN UNDERUTILIZED SPACE



Source: BNY Mellon, Morningstar Direct. As of 12/31/23. *Figures may not total 100% due to rounding.

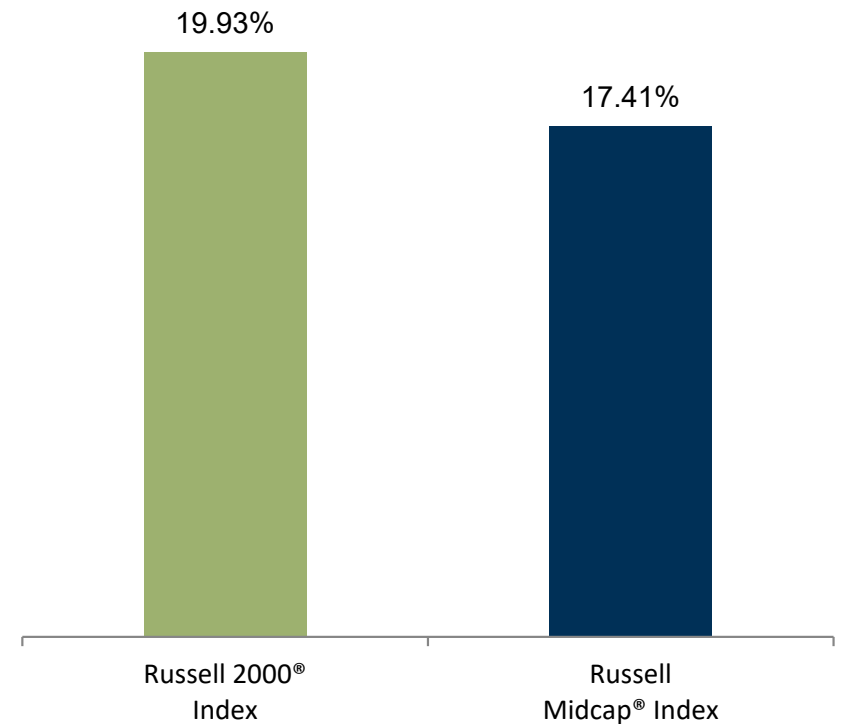
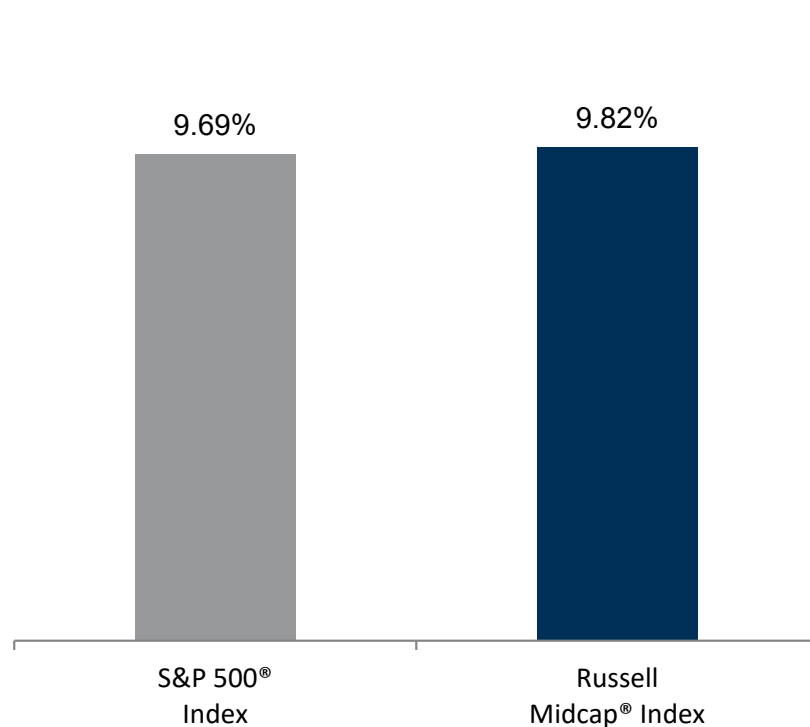
The Russell 3000® Growth Index is a market capitalization-weighted index of growth-oriented stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested. The Russell Midcap® Index is a market capitalization-weighted index of medium-capitalization stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested. The indexes are unmanaged, their returns do not reflect any fees, expenses, or sales charges, and they are not available for direct investment.

Stronger historical returns than large caps...

...with less volatility than small caps

TOTAL RETURN (ANNUALIZED)
20 years ended 12/31/23

STANDARD DEVIATION
20 years ended 12/31/23



Past performance is not indicative of future results.

Source: Morningstar Direct.

The S&P 500® Index is a free-float market capitalization-weighted index of 500 of the largest U.S. companies. The index is calculated on a total return basis with dividends reinvested. The Russell Midcap® Index is a market capitalization-weighted index of medium-capitalization stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested. The Russell 2000® Index is a market capitalization-weighted index of the 2,000 smallest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested. The indexes are unmanaged, their returns do not reflect any fees, expenses, or sales charges, and they are not available for direct investment.

Competitive Protection

- Brand/Reputation
- Network Effect
- Scale/Cost Advantage
- Benchmarking Standard
- High Customer Switching Costs
- Barriers to Entry/Unique Asset
- Low Obsolescence Risk

Owner-Oriented Management

- Cultivates Competitive Advantage
- Rational Capital Allocation
- Considers Stakeholder Interests



KAR HIGH-QUALITY BUSINESS

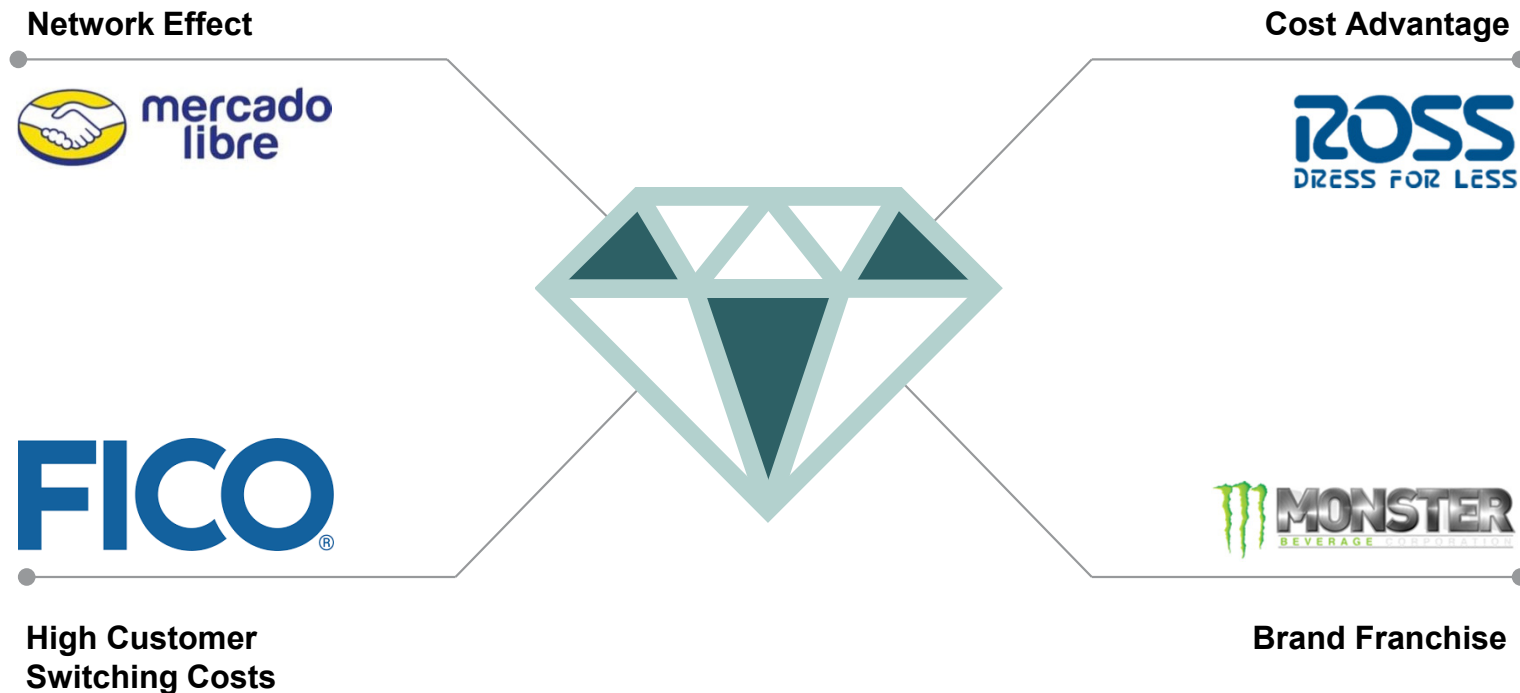
- Protect and Grow Market Share
- High Economic Return on Capital
- Business Returns → Shareholder Returns

Source: Kayne Anderson Rudnick

The commentary is the opinion of Kayne Anderson Rudnick. This material has been prepared using sources of information generally believed to be reliable; however, its accuracy is not guaranteed. Opinions represented are subject to change and should not be considered investment advice or an offer of securities.

KAR'S SOURCES OF QUALITY

EXAMPLES OF HIGH-QUALITY BUSINESS MODELS



Source: Kayne Anderson Rudnick

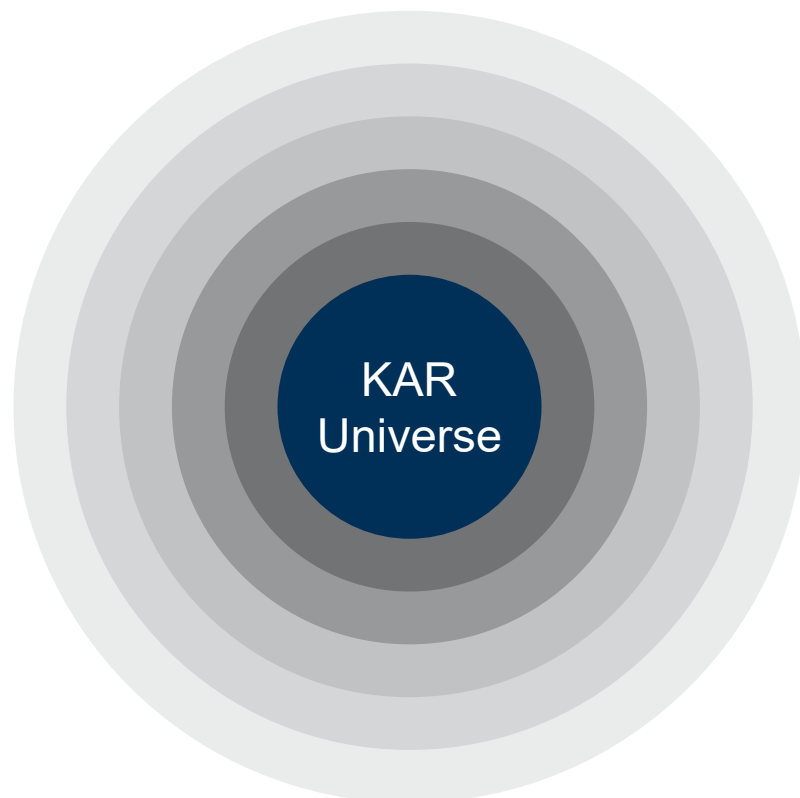
The trademarks shown are the property of their respective owners. Percent of Virtus KAR Mid-Cap Growth Fund as of 12/31/23: MercadoLibre: 4.0%; Ross: 2.2%; FICO: 6.6%; Monster Beverage: 1.7%.

The securities presented on this page are chosen based upon objective, non-performance based criteria and are current holdings of the strategy. Companies are chosen to exemplify diversification. We typically select companies that operate in large, vast industries, but have overwhelming market share for their particular niches. All information is provided for informational purposes only and should not be deemed as a recommendation to purchase the securities mentioned. It should not be assumed that securities recommended in the future will be profitable. Holdings are subject to change. Individual investors' holdings may differ slightly.

DEVELOPMENT OF HIGH-QUALITY UNIVERSE

KAR SOURCES ITS INVESTMENT UNIVERSE IN A NUMBER OF WAYS

MID-CAP UNIVERSE



Qualitative Methods

- Investment conferences
- Meetings with companies
- Industry reviews
- Research on existing portfolio holdings
- Third-party research

Quantitative Screens

- High return on capital over a full economic cycle
- Earnings surprise
- Long and resilient earnings history
- High return on net operating assets
- Minimal debt

KAR research analysts and portfolio managers work together to develop an information advantage

Qualitative Analysis	Financial Analysis	Valuation Analysis	ESG Analysis*
<p>Purpose Evaluate sustainability of business model and assess management's ability to further control its market through capital allocation</p> <ul style="list-style-type: none"> ■ Conduct comprehensive interviews with management ■ Review regulatory filings, press releases, and industry data ■ Channel checks – competitors, suppliers, customers, and consultants 	<p>Purpose Assess the potential for superior profitability, sustainable growth and long-term value-creating capital allocation</p> <ul style="list-style-type: none"> ■ Balance Sheet: High intellectual capital and low physical capital intensity, often complemented by low financial leverage ■ Income Statement: Lower fixed costs, leading to more stable earnings ■ Cash Flow Statement: Abundant cash generation so significant capital investment is not required to fund operations and growth, leading to high free cash flow relative to earnings 	<p>Purpose Determine the current and potential value of the business over a 3- to 5-year period</p> <ul style="list-style-type: none"> ■ Utilize Wall Street models to establish future revenue and earnings expectations ■ Balance historical valuation with potential multiple expansion from business evolution 	<p>Purpose Evaluate financially material environmental, social, and/or governance factors to determine if they may impact an investment outcome</p> <ul style="list-style-type: none"> ■ Utilize a proprietary ratings framework identifying five key issues for each sector ■ ESG research integrated into research process by each member of the investment team ■ Ratings updated annually

Source: Kayne Anderson Rudnick

*Where material to a particular investment opportunity and consistent with KAR's investment strategy, KAR seeks to consider environmental, social, and/or governance (ESG) factors that KAR believes may influence risks and rewards as an element of its investment research and decision-making processes. However, such ESG factors are not by themselves determinative to an investment decision.

Policy

KAR believes that responsible investment practices, which incorporate the consideration of environmental, social, and governance (ESG) topics, add sustainable value for its investors and are consistent with its fiduciary duty.

Philosophy

KAR's investment strategy is driven by the belief that:

- Long-term sustainable and successful businesses incorporate and manage all relevant factors whether they be economic, financial, operational, environmental, social, or governance related.
- Where material to a particular investment opportunity and consistent with a strategy's investment goals and objectives, KAR seeks to consider environmental, social, and/or governance factors that KAR believes may influence risks and rewards as an element of KAR's investment research and decision-making processes.
- However, such environmental, social, and/or governance factors are not by themselves determinative to an investment decision.

Experience

- Natural alignment with KAR's quality-focused investment approach
- PRI Signatory since 2019
- \$3.7 billion in mandates with client specific ESG objectives*

*As of December 31, 2023

Where material to a particular investment opportunity and consistent with KAR's investment strategy, KAR seeks to consider environmental, social, and/or governance (ESG) factors that KAR believes may influence risks and rewards as an element of its investment research and decision-making processes. However, such ESG factors are not by themselves determinative to an investment decision.

KAR uses a proprietary ESG ratings framework to generate ESG scores for businesses in its portfolios as well as portfolio scores.

- ESG research is conducted by each member of the investment team
- Five key issues identified that KAR believes are the most material and financially relevant for each sector
- These five key issues are largely informed by SASB

KAR analyzes each of these key issues and assign each one an A, B, or C rating

- ✓ A Rating - Demonstrates leadership within ESG
- ✓ B Rating – Demonstrates neither leading the charge nor doing something egregious
- ✓ C Rating - Demonstrates one or more ESG issues of significant concern

- The rating on the key issues informs the overall company rating
- Rating updated annually or more frequently if a material event should occur

Where material to a particular investment opportunity and consistent with KAR's investment strategy, KAR seeks to consider environmental, social, and/or governance (ESG) factors that KAR believes may influence risks and rewards as an element of its investment research and decision-making processes. However, such ESG factors are not by themselves determinative to an investment decision.

Investment Guidelines

Position Weights

- 25-50 holdings
- Maximum initial position size is 5% (at cost)
- Maximum position size is 10% (at market)

Sector Tolerances

- Seek broad diversification, but no sector constraints

Holding Period

- Typically 3 to 5 years
- Portfolio turnover typically 25% to 35%

Cash Levels

- Typically will not exceed 10% once a portfolio is fully invested; review by CIO triggered if over 10%

Sell Discipline

Negative Company or Industry Changes

- Position review when:
 - Stock price declines 20% or more in a short time period absent a broad market decline
 - Competitive position or business fundamentals deteriorate
 - Credit-quality profile deteriorates

Portfolio Upgrade

- Better business
- Better price

Acquisition Activity

- Holding acquired
- Holding acquires a company diminishing its business or value

Extended Valuation

- Significant premium to intrinsic value
- Expected annual return insufficient

Risk Management

Investment Philosophy

- Focus on “high-quality” companies
- Company’s “business risk” is primary risk control factor

Portfolio Level Controls

- Broad sector diversification
- Individual security weights initiated at 1% to 5% of portfolio

Position Reviews

- “Position Review” report when a portfolio holding declines 20% absent a broad market decline
- Re-validate reasons for original purchase or sell position

Portfolio Monitoring

CIO/PM Meetings

- Chief Investment Officer and the Portfolio Managers meet to review, discuss, and explain each strategy’s portfolio positioning and its performance

Research Meetings

- Formal meetings to discuss and evaluate portfolio holdings and overall industry trends

PORTFOLIO CHARACTERISTICS



	Virtus KAR Mid-Cap Growth Fund	Russell Midcap® Growth Index	S&P 500® Index	Description†
Quality				
Return on Equity—Past 5 Years	20.0%	21.4%	24.7%	In a market of average businesses, KAR seeks to own protected proprietary businesses that generate exceptional returns on shareholders' capital without employing significant debt.
Total Debt/EBITDA*	1.2 x	1.4 x	1.2 x	
Earnings Variability—Past 10 Years	51.7%	60.7%	44.4%	
Growth				
Sales Per Share Growth—Past 5 Years	14.3%	14.5%	12.0%	In a market of cyclical businesses requiring growth capital from fickle markets, KAR seeks to own companies producing self-funded strong, consistent growth sustainable into the future.
Earnings Per Share Growth—Past 5 Years	21.6%	16.6%	17.1%	
Earnings Per Share Growth—Past 10 Years	15.0%	15.0%	13.7%	
Value				
P/E Ratio—Trailing 12 Months	48.5 x	39.1 x	26.0 x	
P/E Ratio—1-Year Forecast FY EPS	31.5 x	24.7 x	20.2 x	
Free Cash Flow Yield**	2.4%	3.2%	3.6%	
Market Characteristics				
\$ Weighted Average Market Cap (by Issuer)	\$28.8 B	\$28.4 B	\$727.9 B	
Largest Market Cap (by Issuer)	\$91.3 B	\$73.3 B	\$3,010.1 B	

Past performance is no guarantee of future results.

Data as of 12/31/23.

*KAR utilizes the interquartile method when calculating Debt/EBITDA. The interquartile method excludes outliers from an aggregate statistic such as weighted average. The interquartile method does not assume that data from the top or bottom of the distribution are outliers—only the extreme ends are excluded—and that it can be applied consistently as a quantitative method for most fundamental characteristics. Debt/EBITDA utilizes net debt for the calculation.

**Free cash flow data is as of September 30, 2023. Prices are as of December 31, 2023. Excludes financials.

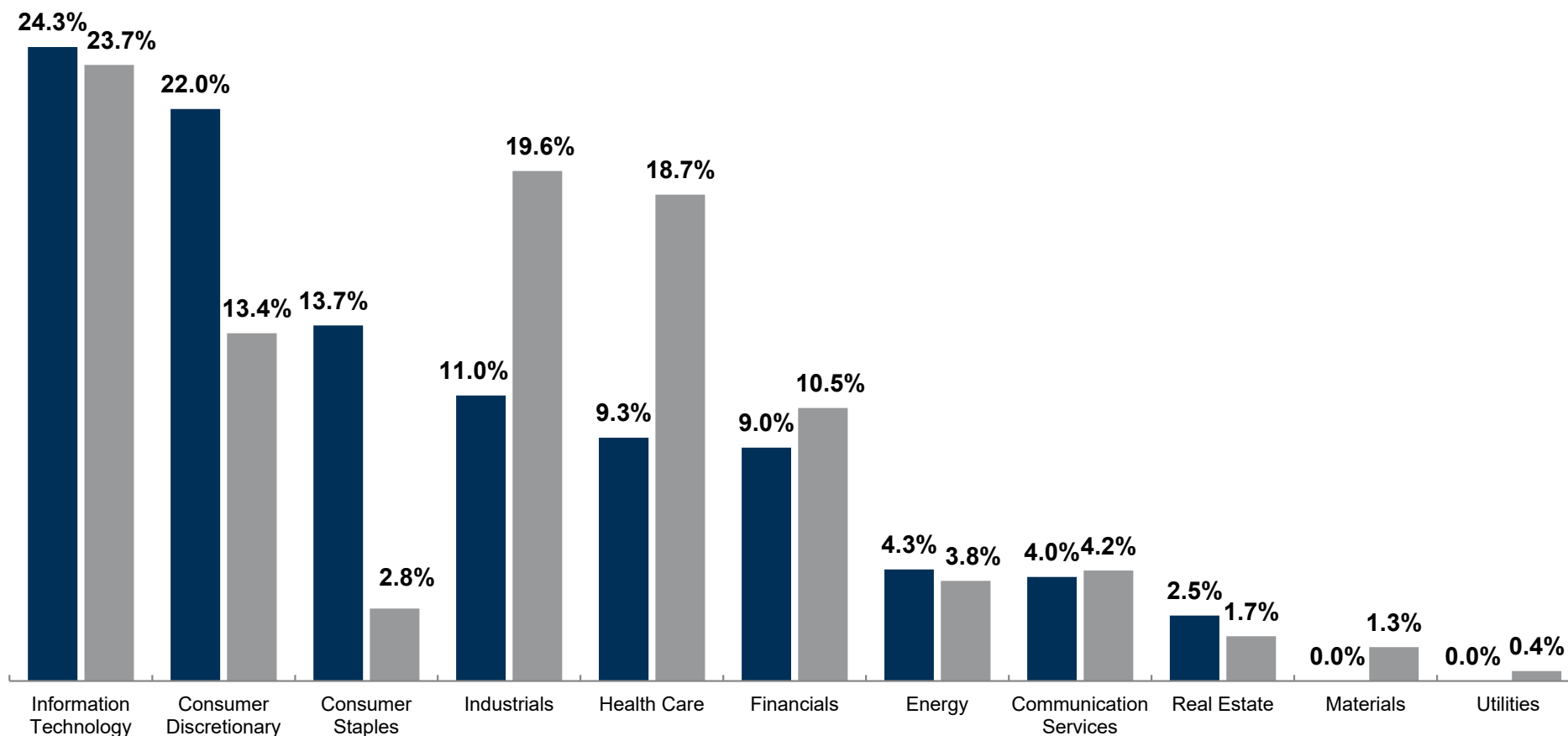
†Description reflects past results and is not an indicator of future performance results. Description is relative to the Fund's primary benchmark.

Data is obtained from the Frank Russell Company and FactSet and is assumed to be reliable. Other principal consultant firms may use different algorithms to calculate selected statistics. Estimates are based on certain assumptions and historical information.

Please see page 21 for definitions of characteristics shown.

SECTOR ALLOCATIONS

■ Virtus KAR Mid-Cap Growth Fund
■ Russell Midcap[®] Growth Index



PORTFOLIO ATTRIBUTES

VIRTUS KAR MID-CAP GROWTH FUND



TOP TEN HOLDINGS	Sector	% of Portfolio
Celsius Holdings Inc.	Consumer Staples	6.9
Fair Isaac Corp.	Industrials	6.6
Gartner Inc.	Information Technology	5.5
MercadoLibre Inc.	Consumer Discretionary	4.0
Amphenol Corp.	Information Technology	3.6
SiteOne Landscape Supply Inc.	Consumer Discretionary	3.3
Goosehead Insurance Inc.	Financials	3.2
Equifax Inc.	Industrials	3.2
Pool Corp.	Consumer Discretionary	2.9
IDEXX Laboratories Inc.	Health Care	2.8
Total		42.0

PORTFOLIO STATISTICS

As of 12/31/23

Virtus KAR Mid-Cap Growth Fund

Russell Midcap® Growth Index

Number of Holdings	45	333
Average Position Size (%)	2.22	0.30
Weight of Top 10 Holdings (%)	41.98	14.39
Active Share (%)	82.20	—
Alpha*	0.61	—
Sharpe Ratio*	0.51	0.52
Standard Deviation*	23.91	22.30
Beta*	1.02	1.00

Past performance is no guarantee of future results.

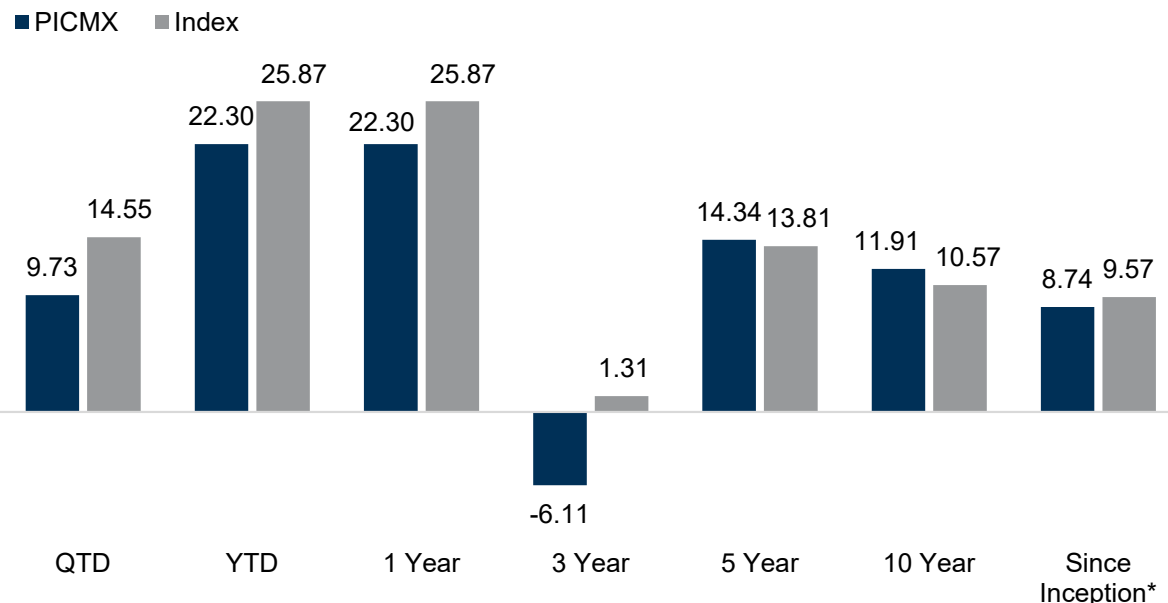
As of 12/31/23.

Source: Virtus Performance and Analytics. Holdings and weightings are subject to change. The sector information represented above is based on GICS sector classifications.

*5 Years Ended 12/31/23. Source: Morningstar Direct. Statistics are defined on page 21.

PERFORMANCE REVIEW

As of December 31, 2023 (%)



*Inception: Class I: 9/13/07.

Performance data quoted represents past performance. Past performance does not guarantee future results. Investment return and principal value will fluctuate so that shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data quoted. Please visit virtus.com for performance data current to the most recent month end. This share class has no sales charges and is not available to all investors. Other share classes have sales charges. See virtus.com for details.

The fund class gross expense ratio is 1.03%.

Average annual total return is the annual compound return for the indicated period and reflects the change in share price and the reinvestment of all dividends and capital gains. Returns for periods of one year or less are cumulative returns.

The Russell Midcap® Growth Index is a market capitalization-weighted index of medium-capitalization, growth-oriented stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested. The index is unmanaged, its returns do not reflect any fees, expenses, or sales charges, and is not available for direct investment.

MORNINGSTAR RATINGS™

I Share	Mid-Cap Growth
Time Period	# of Stars # of Funds
Overall	★★★★ 523
3 Year	★★★ 523
5 Year	★★★★ 492
10 Year	★★★★★ 395

Morningstar ratings are based on risk-adjusted returns. Strong ratings are not indicative of positive fund performance.

The Morningstar Rating™ for funds, or “star rating”, is calculated for managed products (including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds, and separate accounts) with at least a three-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product’s monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its three-, five-, and 10-year (if applicable) Morningstar Rating metrics. The weights are: 100% three-year rating for 36-59 months of total returns, 60% five-year rating/40% three-year rating for 60-119 months of total returns, and 50% 10-year rating/30% five-year rating/20% three-year rating for 120 or more months of total returns. While the 10-year overall star rating formula seems to give the most weight to the 10-year period, the most recent three-year period actually has the greatest impact because it is included in all three rating periods. Ratings do not take into account the effects of sales charges and loads.

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VIRTUS KAR EQUITY FUNDS



Quality-Driven Strategies Across Market Caps and Borders

Kayne Anderson Rudnick's investment philosophy is rooted in quality, with a focus on wealth preservation. Decades of management experience has yielded a rigorous definition of quality, which guides where the firm invests, across market caps and geographic regions.

U.S.										INTERNATIONAL/EMERGING MARKETS			GLOBAL		ALTERNATIVE	SPECIALTY
SMALL-CAP			SMALL-MID-CAP			MID-CAP		LARGE-CAP		SMALL-CAP	SMALL-MID-CAP	ALL-CAP	SMALL-CAP	ALL-CAP	LONG/SHORT	HEALTH
VIRTUS KAR SMALL-CAP VALUE FUND	VIRTUS KAR SMALL-CAP CORE FUND*	VIRTUS KAR SMALL-CAP GROWTH FUND	VIRTUS KAR SMALL-MID CAP CORE FUND	VIRTUS KAR SMALL-MID CAP GROWTH FUND	VIRTUS KAR SMALL-MID CAP VALUE FUND	VIRTUS KAR MID-CAP CORE FUND	VIRTUS KAR MID-CAP GROWTH FUND	VIRTUS KAR EQUITY INCOME FUND	VIRTUS KAR CAPITAL GROWTH FUND	VIRTUS KAR EMERGING MARKETS SMALL-CAP FUND	VIRTUS KAR INTERNATIONAL SMALL-MID CAP FUND	VIRTUS KAR DEVELOPING MARKETS FUND	VIRTUS KAR GLOBAL SMALL-CAP FUND	VIRTUS KAR GLOBAL QUALITY DIVIDEND FUND	VIRTUS KAR LONG/SHORT EQUITY FUND	VIRTUS KAR HEALTH SCIENCES FUND
SYMBOL																
A: PQSAX	A: PKSAX	A: PSGAX	A: VKSAX	A: VAKSX	A: VKSDX	A: VMACX	A: PHSKX	A: PDIAX	A: PSTAX	A: VAESX	A: VISAX	A: VDMAX	A: RGSAX	A: PPTAX	A: VLSAX	A: RAGHX
C: PQSCX	C: PKSCX	C: PSGCX	C: VKSCX	C: VCKSX	C: VKSEX	C: VMCCX	C: PSKCX	C: PGICX	C: SSTFX	C: VCESX	C: VCISX	C: VDMCX	C: RGSCX	C: PPTCX	C: VLSCX	C: RCGHX
I: PXQSX	I: PKAFX	I: PXSGX	I: VKSIX	I: VIKSX	I: VKSFX	I: VIMCX	I: PICMX	I: PXIIX	I: PLXGX	I: VIESX	I: VIISX	I: VIDMX	I: DGSCX	I: PIPTX	I: VLSIX	I: HLHIX
R6: VQSRX	R6: VSCRX	R6: VRSGX	R6: VKSRX	R6: VRKSX	R6: VKSGX	R6: VRMCX	R6: VRMGX	R6: VECRX	R6: VCGRX	R6: VRESX	R6: VRISX	R6: VDMRX	P: ARSPX	R6: VGQRX	R6: VLSRX	P: AAAX
NUMBER OF HOLDINGS																
20-35	20-40	20-40	25-35	20-35	25-35	25-35	25-50	25-50	25-50	30-60	30-60	30-60	40-50	25-50	Long: 20-30 Short: 20-30	40-50
BENCHMARK																
Russell 2000® Value Index	Russell 2000® Index	Russell 2000® Growth Index	Russell 2500™ Index	Russell 2500™ Growth Index	Russell 2500™ Value Index	Russell Midcap® Index	Russell Midcap® Growth Index	MSCI USA High Dividend Yield Index (net)	Russell 1000® Growth Index	MSCI Emerging Markets Small Cap Index (net)	MSCI AC World Ex USA Small Mid Cap Index (net)	MSCI Emerging Markets Index	MSCI World Small Cap Index	Russell Developed Large Cap Index (net)	Russell 3000® Index	MSCI World Health Care Index
INVESTMENT OPPORTUNITY																

KAR believes that superior risk-adjusted returns can be achieved by investing in high-quality companies with market dominance, excellent management, financial strength, and consistent growth, purchased at reasonable prices.

**For more information about Kayne Anderson Rudnick's
high-conviction, high-quality equity strategies,
visit virtus.com or call 800-243-4361.**

*Effective July 31, 2018, this Fund is closed to new investors. Please see the prospectus for exceptions.

QUALITY

Return on Equity - Past 5 Years—relates how well the company is using the money invested in it so that it can bring a return to its investors. A high portfolio ROE indicates that the portfolio is invested in historically profitable companies.

Total Debt/EBITDA—is calculated by dividing total debt by earnings before interest, taxes, depreciation, and amortization. It is a measure of a company's ability to pay off its incurred debt.

Earnings Variability - Past 10 Years—measures the volatility of the annual earnings per share over the past 10 years. On a portfolio level, a high EPS variability means the portfolio is heavily invested in companies with volatile earnings. Unlike earnings growth, this statistic looks at the companies' earnings patterns. Newer companies and smaller companies tend to have highly variable earnings.

GROWTH

Sales/Share Growth —measures the growth of holdings' revenues over the last five years. Because companies with stable profit margins require sales growth to increase earnings, this statistic can be useful as a measure of earnings growth potential.

Earnings/Share Growth—indicates the earnings available to each common share. Earnings/share growth is the growth rate of these earnings per share. On a portfolio level, this statistic measures the trailing earnings per share growth of a portfolio's holdings.

VALUE

P/E Ratio - Trailing 12 Months—The P/E (price-earnings) ratio is calculated by dividing the company's stock price divided by its earnings per share times 100. The higher the P/E ratio, the more an investor pays for the company's earnings. A low P/E generally indicates a better value, while a high P/E denotes an expensive stock with earnings that investors expect will grow rapidly. A negative P/E is generally indicative of companies with losses or negative earnings.

P/E Ratio - 1-Year Forecast FY EPS—Future earnings of holdings are more relevant to future performance of the stock than are earnings of the past year. Therefore, the forecasted P/E ratio is conceptually more valuable than the P/E ratio based on historical 12-month earnings. As with all estimated data, the use of consensus earnings forecasts causes many practical problems, as the numbers may prove to be far from the mark for particular securities or portfolios. Comparison of this P/E ratio with those provided by portfolio managers who rely on their own forecasted earnings for P/E calculations can provide useful insights into whether the firm is predicting above-consensus earnings for its holdings.

Free Cash Flow Yield—An overall return evaluation ratio of a stock, which standardizes the free cash flow per share a company is expected to earn against its market price per share. Free cash flow yield is similar in nature to the earnings yield metric, which is usually meant to measure GAAP earnings per share divided by share price. Generally, the lower the ratio, the less attractive the investment is and vice versa. The logic behind this is that investors would like to pay as little price as possible for as many earnings as possible. Some investors regard free cash flow (which takes into account capital expenditures and other ongoing costs a business incurs to keep itself running) as a more accurate representation of the returns shareholders receive from owning a business, and thus prefer to free cash flow yield as a valuation metric over earnings yield.

MARKET CHARACTERISTICS

\$ Weighted Average Market Cap—the sum of each security's weight within the fund (or index) multiplied by the security's market capitalization.

Largest Market Cap—information about the range of the market capitalization held in the portfolio.

Active Share – A measure of the percentage of stock holdings in a manager's portfolio that differ from the benchmark index.

Alpha – A measure of performance on a risk-adjusted basis.

Beta – A quantitative measure of the volatility of a given portfolio relative to the overall market. Higher beta suggests higher volatility. Beta can also refer to relative volatility to a portfolio's stated benchmark.

Sharpe Ratio – A statistic that measures the efficiency, or excess return per unit of risk, of a manager's returns. The greater the Sharpe Ratio, the better the portfolio's risk adjusted return.

Standard Deviation – Measures variability of returns around the average return for an investment portfolio. Higher standard deviation suggests greater risk.

The **Russell 2000® Value Index** is a market capitalization-weighted index of value-oriented stocks of the smallest 2,000 companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell 2000® Index** is a market capitalization-weighted index of the 2,000 smallest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell 2000® Growth Index** is a market capitalization-weighted index of growth-oriented stocks of the smallest 2,000 companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell 2500™ Index** is a market capitalization-weighted index of the 2,500 smallest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell 2500™ Growth Index** is a market capitalization-weighted index of growth-oriented stocks of the 2,500 smallest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell 2500™ Value Index** is a market capitalization-weighted index of value-oriented stocks of the 2,500 smallest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested. The index is unmanaged, its returns do not reflect any fees, expenses, or sales charges, and is not available for direct investment.

The **Russell Midcap® Index** is a market capitalization-weighted index of medium-capitalization stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **Russell Midcap® Growth Index** is a market capitalization-weighted index of medium-capitalization, growth-oriented stocks of U.S. companies. The index is calculated on a total return basis with dividends reinvested. The Russell 1000® Growth Index is a market capitalization-weighted index of growth-oriented stocks of the 1,000 largest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested.

The **MSCI USA High Dividend Yield Index** is based on the MSCI USA Index, its parent index, and includes large and mid cap stocks. The index is designed to reflect the performance of equities in the parent index (excluding REITs) with higher dividend income and quality characteristics than average dividend yields that are both sustainable and persistent. The index also applies quality screens and reviews 12-month past performance to omit stocks with potentially deteriorating fundamentals that could force them to cut or reduce dividends. The index is calculated on a total return basis with net dividends reinvested.

The **Russell 1000® Growth Index** is a market capitalization-weighted index of growth-oriented stocks of the 1,000 largest companies in the Russell Universe, which comprises the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested. The index is unmanaged, its returns do not reflect any fees, expenses, or sales charges, and is not available for direct investment.

The **MSCI Emerging Markets Small Cap Index (net)** is a free float-adjusted market capitalization-weighted index designed to measure small cap equity market performance in the global emerging markets. The index is calculated on a total return basis with net dividends reinvested.

The **MSCI AC World Ex USA Small Mid Cap Index (net)** is a free float-adjusted market capitalization-weighted index that measures mid- and small-cap performance across 22 of 23 Developed Market countries (excluding the U.S.) and 24 Emerging Markets countries. The index is calculated on a total return basis with net dividends reinvested.

The **MSCI Emerging Markets Index** is a free float-adjusted market capitalization-weighted index designed to measure equity market performance in the global emerging markets. The index is calculated on a total return basis with gross dividends reinvested.

The **MSCI World Small Cap Index (net)** is a free float-adjusted market capitalization-weighted index that measures small cap equity performance of developed markets. The index is calculated on a total return basis with gross dividends reinvested.

The **Russell Developed Large Cap Index** is a free-float market capitalization-weighted index constructed to provide a comprehensive and unbiased barometer for the large-cap segment in the developed world, calculated on a total return basis with net dividends reinvested.

The **Russell 3000® Index** is a market capitalization-weighted index that measures the performance of the 3,000 largest U.S. companies. The index is calculated on a total return basis with dividends reinvested. The indexes are unmanaged, their returns do not reflect any fees, expenses, or sales charges, and they are not available for direct investment.

The **MSCI World Health Care Index (net)** is designed to capture the large and mid-cap segments of developed markets. All securities in the index are classified in the Health Care sector as per the Global Industry Classification Standard. The index is calculated on a total return basis with gross dividends reinvested.



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