



Factor Investing

Factor Investing: Understanding key Factors





Momentum

- Captures 'recent trends in movements of stock prices'
- Underlying belief: Prices reflect all available knowledge about the company & ability to generate returns for investors

Quality

- Captures companies based on quality filters like ROE, Financial leverage, EPS growth variability, etc.
- **Underlying belief:** Quality companies have superior potential to create economic value





Low Volatility

- Captures stable companies with lower Volatility
- Underlying belief: Companies with low price-volatility reflect the strength of their business fundamentals & ability to generate economic value

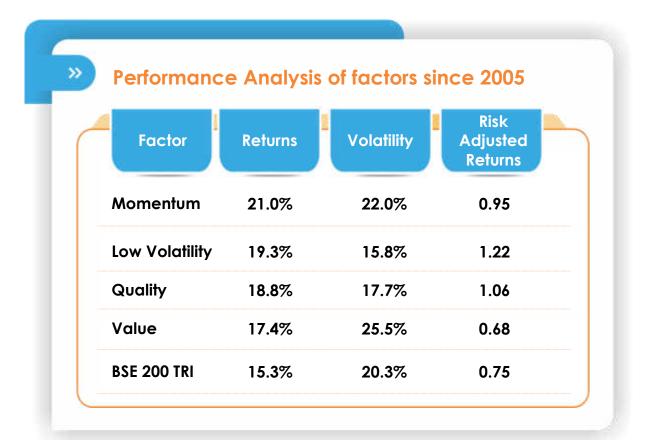
Value

- Selects companies through value filters, such as P/E, P/B, P/S, dividend yield, to determine the intrinsic value of the companies
- Underlying belief: Mean reversion companies that are attractively valued create superior return for investors



Factor Investing: Long-term performance







Momentum has delivered the maximum return however with higher volatility



Low Volatility has provided the best Risk Adjusted Return (RAR) amongst the factors with the least volatility



Quality has performed better than broader markets with lower volatility



Value has the highest volatility amongst all factors, contributing to lowest RAR

In the long term, each factor has outperformed broad index individually

Data From 31/Mar/2005 to 30/Nov/2024. 'Momentum' refers to Nifty 200 Momentum 30 TRI, "Low Volatility" refers BSE Low Volatility TRI*, "Quality" refers to Nifty 200 Quality 30 TRI, "Value" refers to Nifty 500 Value 50 TRI, "BSE 200" refers to BSE 200 TRI. Nifty 100 Low Volatility ITRI is taken as the Index for Low Volatility before the launch of BSE Low Volatility TRI in September 2005. Source: MFI Explorer & Nifty Indices Limited. Past performance may or may not sustain in the future. The figures pertain to performance of the index and do not indicate the returns/performance of the scheme. It is not possible to invest directly in Index. Returns & Volatility are calculated on Compound Annual Growth Rate & Annualized basis (Daily Returns).

Factor Investing: Winners keep rotating



FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25*
LV	BSE 200	M	LV	V	M	Q	M	Q	M	LV	V	M	Q	LV	V	V	V	V	Q
94%	11%	41%	(-26%)	162%	14%	12%	16%	30%	60%	3%	62%	22%	12%	(-12%)	109%	40%	11%	87%	16%
M	LV	V	Q	Q	Q	LV	LV	LV	V	M	M	Q	BSE 200	Q	BSE 200	M	LV	M	V
80%	7%	35%	(-34%)	132%	14%	4%	14%	23%	53%	(-4%)	40%	18%	12%	(-15%)	76%	38%	8%	70%	13%
Q	Q	BSE 200	M	BSE 200	LV	M	Q	V	LV	Q	BSE 200	LV	M	M	M	BSE 200	BSE 200	LV	M
71%	5%	25%	(-35%)	95%	13%	(-0%)	11%	22%	43%	(-5%)	24%	16%	12%	(-16%)	62%	21%	(-1%)	44%	12%
BSE 200 63%	M	LV	V	LV	V	V	BSE 200	M	Q	BSE 200	LV	BSE 200	LV	BSE 200	LV	Q	Q	BSE 200	BSE 200
	5%	25%	(-38%)	86%	13%	(-7%)	8%	21%	39%	(-6%)	18%	12%	11%	(-25%)	59%	18%	(-1%)	39%	11%
V	V	Q	BSE 200	M	BSE 200	BSE 200	V	BSE 200	BSE 200	V	Q	V	V	V	Q	LV	M	Q	LV
37%	3%	24%	(-40%)	63%	10%	(-8%)	(-20%)	19%	34%	(-9%)	14%	1%	(-7%)	(-48%)	57%	8%	(-9%)	35%	4%

	BSE 200 TRI	Momentum (M)	Low Volatility (LV)	Quality (Q)	Value (V)	
Rank 1, 2	15%	50%	45%	45%	45%	
Rank 3	25%	30%	20%	20%	5%	
Rank 4, 5	60%	20%	35%	35%	50%	

Factors have short performance cycles and winners keep rotating

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Factor Investing: Alpha Generation





1 Year Rolling Returns since 2005

Returns Range	No. of		Avero	ıge Returns (%	%)		Alpha over BSE 200 TRI (%)					
of BSE 200 TRI	Instances	BSE 200 TRI	Momentum	Low Volatility	Quality	Value	Momentum	Low Volatility	Quality	Value		
Less than 0%	890	(16.1)	(12.7)	(5.7)	(8.0)	(21.7)	3.4	10.4	8.1	(5.5)		
0% to 10%	1076	5.3	8.4	9.8	9.6	(0.2)	3.1	4.6	4.3	(5.5)		
10% to 20%	949	14.2	20.9	17.5	17.0	12.9	6.7	3.3	2.8	(1.3)		
20% to 30%	626	24.6	35.4	25.1	25.6	41.7	10.8	0.5	1.1	17.1		
30% to 40%	585	35.2	51.6	36.6	34.6	59.2	16.4	1.4	(0.6)	24.0		
Above 40%	743	61.1	64.9	56.7	63.3	88.8	3.9	(4.4)	2.3	27.7		



During market drawdowns & flat markets, Low Volatility & Quality tend to perform relatively better;



Value generates high returns during market uptrends;



Momentum performs consistently across market return ranges

Alpha outcomes of the Factors vary over market cycles

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Factor Investing: Probability distribution of outperformance vs Broad Index



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1 Year Rolling Returns since 2005

Returns Range		Probability of Outperforming BSE 200 TRI (%)									
of BSE 200 TRI	No. of Instances	Momentum	Low Volatility	Quality	Value						
Less than 0%	890	73	98	94	34						
0% to 10%	1076	63	80	69	45						
10% to 20%	949	81	72	65	45						
20% to 30%	626	91	53	45	80						
30% to 40%	585	87	59	45	76						
Above 40%	743	70	34	40	78						

Momentum factor has historically performed well across most market ranges

Summarizing Factor Investing





Factor investing provides different combinations of Returns, Volatility and Risk-adjusted returns



of disciplined factor investment have historically been better than broad market Index



Performance of factor strategies varies across different equity market cycles

Winners rotate:





UTI Factor Allocation Model



Factor	% Allocation	Allocation Type	Rationale
Momentum	0-100	Core allocation	Momentum has relatively higher consistency and relatively higher Volatility
Low Volatility	0-70	Counter-Balance Allocation	Determined by position of Momentum-Low Volatility Indicator; Allocation is made at high probability inflection zones. This factor is reasonably consistent and simultaneously reduces portfolio Volatility
Quality	0-70	Cyclical allocation •	Determined by position of Quality-Value Indicator; Allocation is made at higher probability inflection zones i.e., Value to Quality
Value	0-70	Cyclical allocation	Determined by position of Quality-Value Indicator; Allocation is made at higher probability inflection zones i.e., Quality to Value

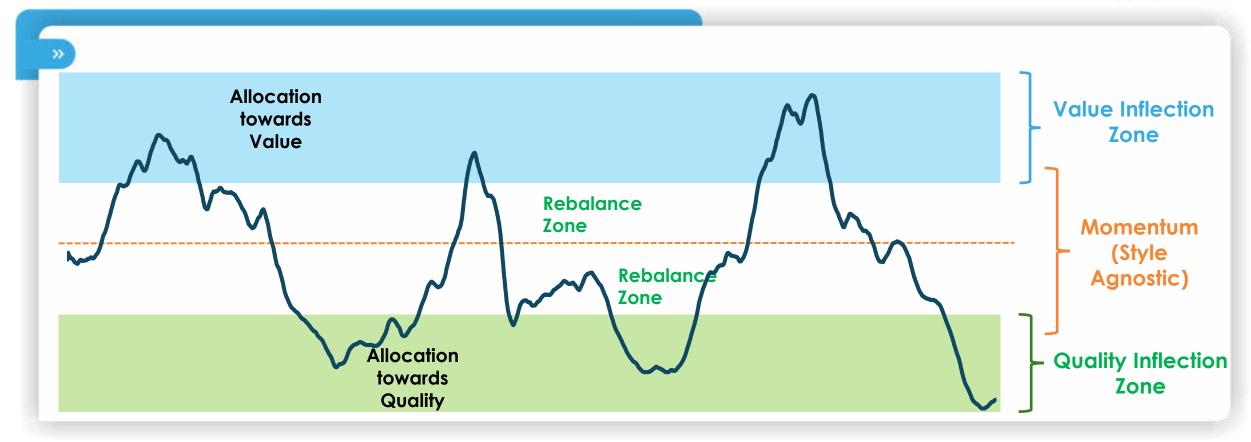
The Factor Model allocates to different factors based on their cyclical positioning

Allocation could be made to one or all the four factors

Note: The illustrations of in-house proprietary factor model are for understanding the working of the model. The model is adaptive in nature as it is updated with incoming data. Individual stocks could be classified under more than one factor at a given point of time. The performance of the internal model does not represent the performance of the scheme. Actual allocation and investing experience may vary. Portfolio will be managed as per the stated investment objective, investment strategy, asset allocation in the scheme information document (SID) and is subject to the changes within the provisions of the SID of the scheme. Past performance may or may not sustain in future.

Factor Allocation Model: Decision Tree 1 'Quality-Value Indicator'





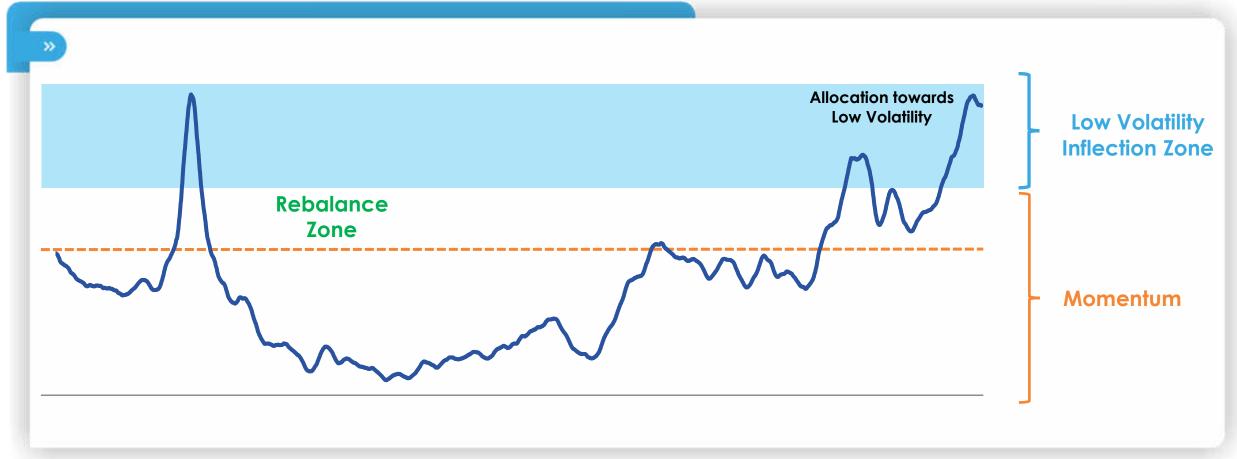
Allocation is made to Quality or Value only when the Quality-Value indicator is in the inflection zone

When the indicator enters the rebalance zone – it would be gradually rebalanced towards momentum

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Factor Allocation Model: Decision Tree 2 'Momentum – Low Volatility Indicator'





Allocation is made to Low Volatility only when the Momentum-Low Volatility indicator is in the inflection zone

When the indicator enters the rebalance zone – it would be gradually rebalanced towards momentum

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Factor Model Allocation – Why we use these Decision Trees?



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Quality - Value Cycles

Datura Daviad	Abs	olute Returr	ns
Return Period	Quality	Value	BSE 200 TRI
July 06 to Jan 08	85%	177%	116%
Nov 10 to Aug 13	25%	-56%	-14%
Aug 13 to Jun 14	35%	159%	45%
Jun 14 to Feb 16	12%	-30%	-4%
Feb 16 to May 17	21%	112%	41%
May 17 to Oct 20	50%	-43%	28%
Oct 20 to Jun 24	96%	458%	126%

Why Decision Tree1?

 Quality & Value are often counter cyclical i.e. Quality tends to outperform when Value is not doing well & vice-versa



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Momentum - Low Volatility Cycles

Politica Poriod	Absolute Returns						
Return Period	Momentum	Low Vol	BSE 200 TRI				
Apr 07 to Dec 07	123%	42%	70%				
Dec 07 to Jul 10	-30%	37%	-8%				
Jun 16 to Jan 18	77%	30%	41%				
Jan 18 to Jan 21	23%	44%	27%				
Jan 21 to Jun 24	179%	79%	95%				

Why Decision Tree 2?

As regards the Momentum - Low Volatility pair, Low Volatility tends to provide stability during periods of heightened volatility & market drawdowns

The Decision Trees attempt to identify the factor likely to outperform based on historical patterns

Note: The factor allocation model's distribution across factors has been back tested since the year 2005. The model is adaptive in nature as it is updated with incoming data. Individual stocks could be classified under more than one factor at a given point of time. The performance of the internal model does not represent the performance of the scheme. Actual allocation and investing experience may vary. Portfolio will be managed as per the stated investment objective, investment strategy, asset allocation in the scheme information document (SID) and is subject to the changes within the provisions of the SID of the scheme. Past performance may or may not sustain in future.

Factor Model Allocation – History



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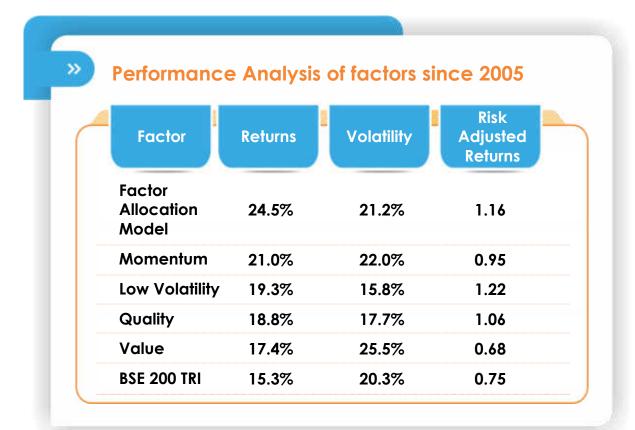
M	onth Ended	Dec-05	Dec-06	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Nov 24
	Momentum	100	30	9	30	100	30	65	100	30	100	100	65	30	100	30	30	9	30	9	9
Allocation	Low Volatility			21														21		21	21
Allo	Quality						70	35					35	70						70	70
Model	Value		70	70	70					70						70	70	70	70		
	Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

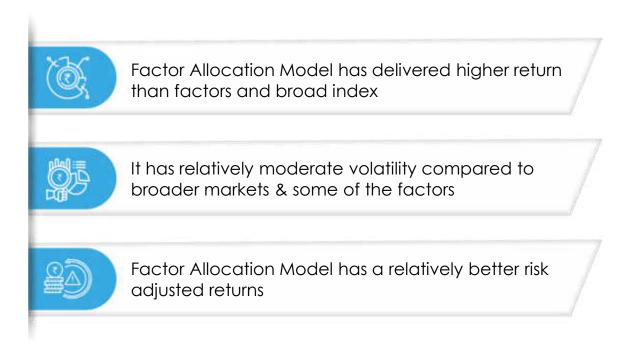
Factor Allocation Model dynamically allocates weightages across factors

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Factor Allocation Model: Long-term performance







Factor Allocation Model has delivered relatively better risk adjusted returns

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Factor Allocation Model: Short and Medium-term Performance



		Returns (%)						Annualized Volatility (%)					Risk Adjusted Returns					
	BSE 200 TRI	Moment um	Low Volatility	, Quality	Value	Factor Model	BSE 200 TRI	Mome ntum	Low Volatility	Quality	Value	Factor Model	BSE 200 TRI) Moment um	Low Volatility	Quality	Value	Factor Model
1 Year	26.4	38.1	20.5	25.6	44.5	26.9	14.6	21.7	11.3	13.1	25.0	13.0	1.81	1.76	1.81	1.96	1.78	2.07
3 Years	16.2	21.0	15.9	15.5	37.2	25.1	14.1	19.1	11.2	13.1	20.4	15.0	1.14	1.10	1.42	1.19	1.82	1.67
5 Years	18.7	26.1	18.5	18.8	34.1	27.5	18.2	21.3	14.0	16.0	24.1	20.1	1.02	1.23	1.32	1.17	1.42	1.37
7 Years	15.2	20.2	15.5	15.9	16.5	21.2	16.9	19.6	13.2	15.1	23.4	18.6	0.90	1.03	1.18	1.06	0.71	1.14
10 Years	13.7	20.5	15.0	13.5	16.7	19.9	15.8	18.7	12.6	14.0	23.3	17.8	0.87	1.09	1.19	0.96	0.71	1.12
15 Years	13.3	20.2	16.4	16.3	15.1	22.5	15.9	17.8	12.4	13.7	23.1	17.2	0.83	1.14	1.33	1.19	0.65	1.31

Factor Allocation Model has delivered relatively better risk adjusted returns

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Factor Allocation Model: Alpha generation & Probability distribution



1 year rolling returns

Returns Range of	No. of		,	Average Re	turns (%)			Alpha over BSE 200 TRI (%)						
BSE 200 TRI	Instances	BSE 200 TRI	Momentum	Low Volatility	Quality	Value	Factor Model	Momentum	Low Volatility	Quality	Value	Factor Model		
Less than 0%	890	(16.1)	(12.7)	(5.7)	(8.0)	(21.7)	(10.5)	3.4	10.4	8.1	(5.5)	5.6		
0% to 10%	1076	5.3	8.4	9.8	9.6	(0.2)	10.8	3.1	4.6	4.3	(5.5)	5.5		
10% to 20%	949	14.2	20.9	17.5	17.0	12.9	22.2	6.7	3.3	2.8	(1.3)	8.0		
20% to 30%	626	24.6	35.4	25.1	25.6	41.7	36.0	10.8	0.5	1.1	17.1	11.5		
30% to 40%	585	35.2	51.6	36.6	34.6	59.2	51.4	16.4	1.4	(0.6)	24.0	16.2		
Above 40%	743	61.1	64.9	56.7	63.3	88.8	86.6	3.9	(4.4)	2.3	27.7	25.6		

Returns Range of	No. of	Probability of Outperforming BSE 200 TRI (%)									
BSE 200 TRI	Instances	Momentum	Low Volatility	Quality	Value	Factor Model					
Less than 0%	890	73	98	94	34	82					
0% to 10%	1076	63	80	69	45	79					
10% to 20%	949	81	72	65	45	81					
20% to 30%	626	91	53	45	80	95					
30% to 40%	585	87	59	45	76	92					
Above 40%	743	70	34	40	78	92					

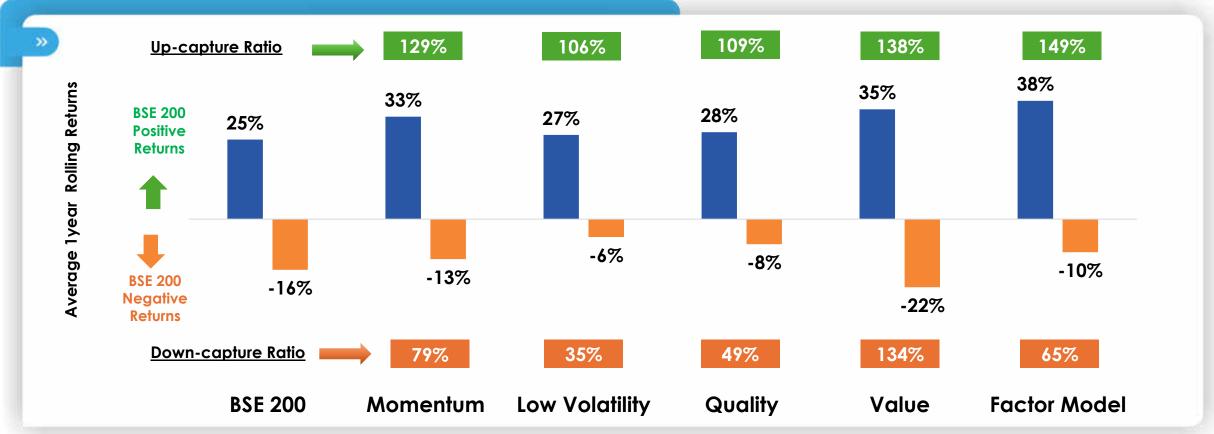
The Factor Allocation Model has delivered an attractive combination of

- (i) Consistency of alpha over the broader market and
- Relatively higher probability of outperformance vs individual factor

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Factor Allocation Model: Superior up-capture and down-capture ratios





Factor model has captured market up-moves more than single factors with lower participation in drawdowns than momentum and quality, offering better downside protection

Factor model has delivered superior performance than single factors and broad index during market up-moves

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Factor Allocation Model: FY Performance trend

FY 25*

11%

1%



FY Returns Fiscal Year Alpha over BSE 200 TRI **BSE 200 TRI** Low Volatility Momentum Quality Value **Factor Model** 63% 17% 31% 8% FY 06 -25% 13% FY 07 11% -6% -4% -6% -8% -7% FY 08 25% 16% -0% -1% 9% 16% FY 09 5% 14% 6% 3% 3% -40% FY 10 95% -32% -10% 37% 32% 67% FY 11 4% 4% 3% 5% 10% 4% 8% FY 12 -8% 12% 20% 1% 15% 9% FY 13 8% 6% 3% -27% 8% 2% 4% 3% 18% FY 14 19% 11% FY 15 34% 26% 6% 19% 51% FY 16 -6% 2% 10% 1% -2% 2% FY 17 24% 16% -6% -10% 38% 8% 9% FY 18 12% 3% 5% -12% 6% FY 19 12% -1% -1% 0% -19% -1% 9% FY 20 13% -25% 10% -23% -6% FY 21 -18% 33% 16% 76% -14% -20% 16% FY 22 21% -14% 18% 17% -3% FY 23 -1% -9% -0% 11% 7% FY 24 39% 31% 5% -4% 48% 15%

Factor Allocation Model has outperformed broader market index in 17 out of last 20 Years

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2%

2%

Factor Allocation Model: Performance across key market events



Returns

Alpha over BSE 200 TRI

Period	Event	BSE 200 TRI	Momentum	Low Volatility	Quality	Value	Factor Model
Apr'05 - Jan'08	Pre-GFC Rally	39%	13%	0%	-4%	-7%	7%
Jan'08 – Mar'09	Global Financial Crisis	-44%	1%	20%	10%	2%	3%
Mar'09 to Nov'10	Post Crisis Recovery	59%	-8%	-1%	22%	45%	21%
Nov'10 to Jan'12	Eurozone Debt Crisis	-13%	0%	9%	14%	-9%	9%
Aug'13 to Mar'15	Oil Price Correction	38%	13%	4%	1%	33%	47%
Feb'20 to Mar'20	Covid-19 Pandemic	-23%	4%	11%	10%	-2%	0%
Mar'20 to Jan'22	Post Covid Recovery	54%	2%	-16%	-12%	25%	18%
Feb'23 to Sep'24	Equity Market Rally	37%	23%	3%	2%	33%	14%

Factor Allocation Model has shown resilience during various market down moves and better returns during market up moves

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Factor Allocation Model: Rolling Return Performance



	3 Years Rolling Returns		5 Years Rolling Returns	
	BSE 200 TRI	Factor Model	BSE 200 TRI	Factor Model
Average Return	13%	22%	7%	12%
Maximum Return	39%	48%	22%	26%
Minimum Return	-10%	-6%	-6%	-4%
% times outperformed BSE 200 TRI		94%		93%
Average Outperformance		11%		6%
Average Underperformance		-1%		-1%

Factor Allocation Model has outperformed the broader market index by 94% times in a 3-year period and 93% times in a 5-year period

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Summarizing Factor Allocation Model



Delivered **higher returns** than the individual factors and broad index, with a consistently high degree of probability



Demonstrated resilience during market down cycle and has delivered relatively better returns during market up cycle v/s individual factors



Dynamic allocation across factors, has enabled a consistent record of alpha generation v/s the broad index



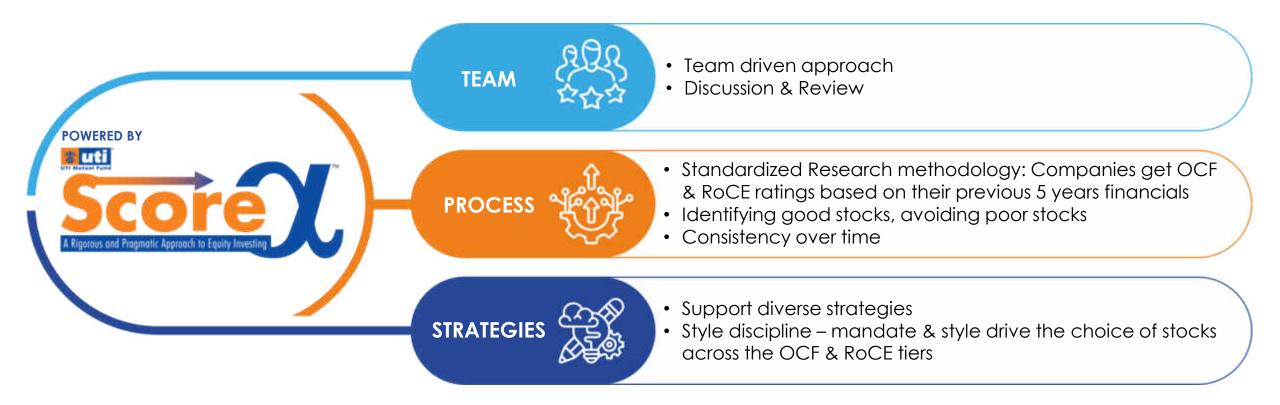
Data from 31/Mar/2005 to 30/Nov/2024. 'Momentum' refers to Nifty 200 Momentum 30 TRI, "Low Volatility TRI*, "Quality" refers to Nifty 200 Quality 30 TRI, "Value" refers to Nifty 500 Value 50 TRI, "BSE 200" refers to BSE 200 TRI. Nifty 100 Low Volatility ÍTRI is taken as the Index for Low Volatility before the launch of BSE Low Volatility TRI in September 2005. Source: MFI Explorer & Nifty Indices Limited. The illustrations of in-house proprietary factor model are for understanding the working of the model is adaptive in nature as it is updated with incoming data. Individual stocks could be classified under more than one factor at a given point of time. The performance of the internal model does not represent the performance of the scheme. Past performance may or may not sustain in the future. The figures pertain to performance of the index and do not indicate the returns/performance of the scheme. It is not possible to invest directly in Index.



Score Alpha: UTI Investment Research Process

Score Alpha: UTI's Proprietary Equity Research Methodology

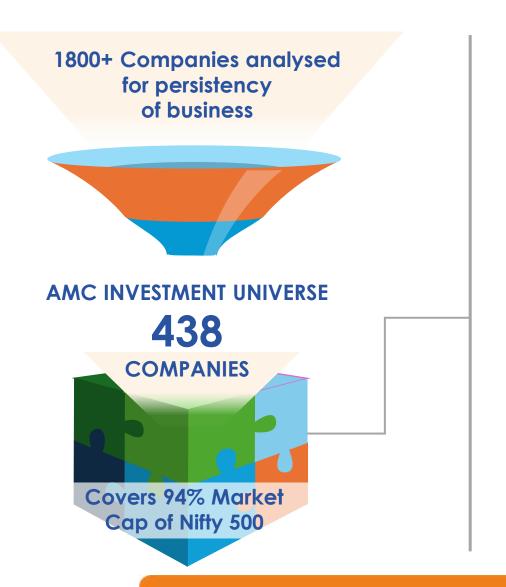


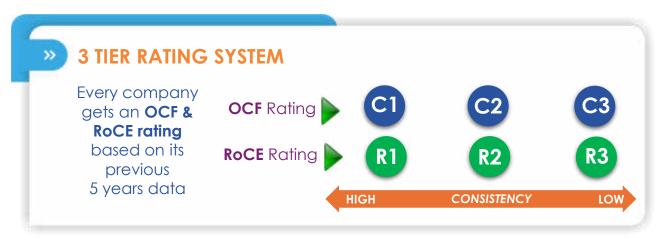


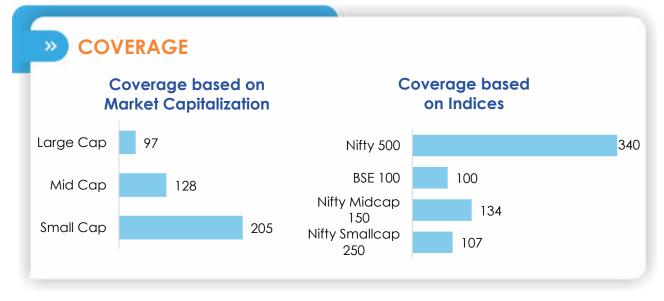
Identifying good stocks while weeding out weaker ones

Score Alpha: Rating System









Score Alpha supports distinct investment styles across diverse strategies

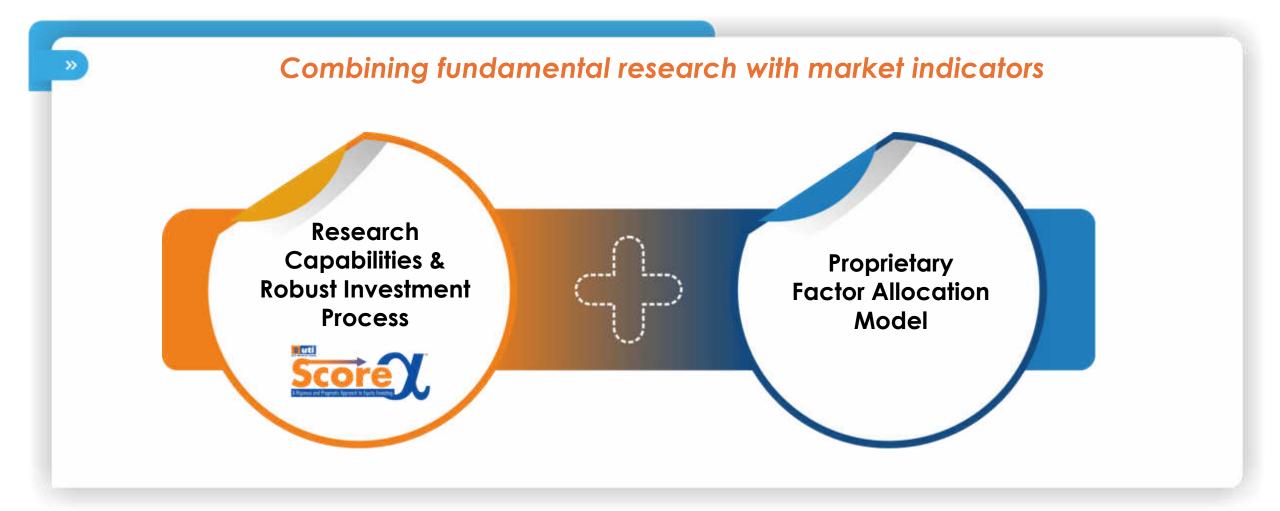






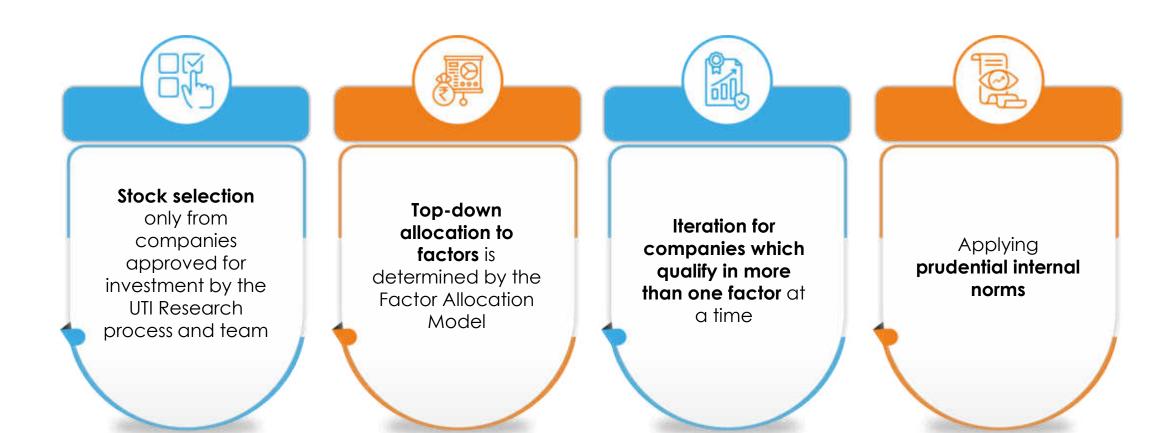
UTI Quant Fund : Integrated Investing Approach





UTI Quant Fund Portfolio Construction





UTI QUANT FUND: Applying Liquidity & Size Filters







Liquidity and size factors are reviewed based on scheme AUM, free float market cap and market liquidity

Effective universe for UTI Quant Fund

UTI QUANT FUND: Applying Factor Screening & Weights



UTI QUANT FUND UNIVERSE: 342 COMPANIES

Applying Factor Screening

MOMENTUM

- Filter based on recent price momentum of stocks
- Rank Stocks based 'Momentum Score'



QUALITY

- Filter stocks based on Quality parameters like ROE, Financial leverage, EPS growth variability etc.
- Rank Stocks based 'Quality Score'



VALUE

- Filter stocks based on Valuation parameters like P/E, P/B, Price/ Sales, Dividend Yield etc.
- Rank Stocks based 'Value Score'



LOW VOLATILITY

- Filter based on
 Annualized Volatility of
 stock's daily price return
- Rank Stocks based 'Low Volatility Score'



Applying Factor Weights

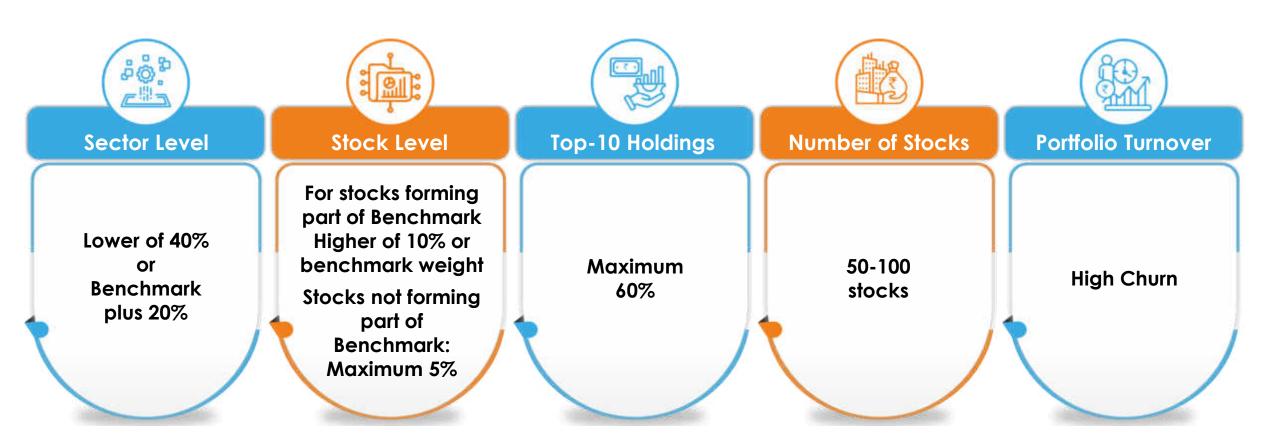
Selecting a total of 50 to 100 stocks based on single & multi factors weightages derived from 'Factor Allocation Model'

Exclusion Filter: Corporate Governance or any fundamental risk

Portfolio constituents subject to prudential investment norms

UTI Quant Fund : Applying Prudential Internal norms at portfolio level





UTI Quant Fund: Key Facts





Investment Objective

The scheme shall seek to generate long term capital appreciation by investing in equity and equity related instruments by following a quantitative investment theme.

However, there can be no assurance or guarantee that the investment objective of the schemes would be achieved.



Fund Manager Sharwan Goyal



Plans & Options

Plans: Regular Plan & Direct Plan

Options (under both Plans): Growth Option



Minimum Application Amount

Initial Purchase: ₹1,000 and in multiples of ₹1/-

Additional Purchase: ₹1,000 and in multiples of ₹1/-

For minimum SIP amount- refer to Scheme Information Document



Type of Scheme

An open-ended equity scheme following a quantitative investment theme



Benchmark

BSE 200 TRI



Exit Load

1% if redeemed/switched-out within 90 days from the date of allotment; Nil thereafter

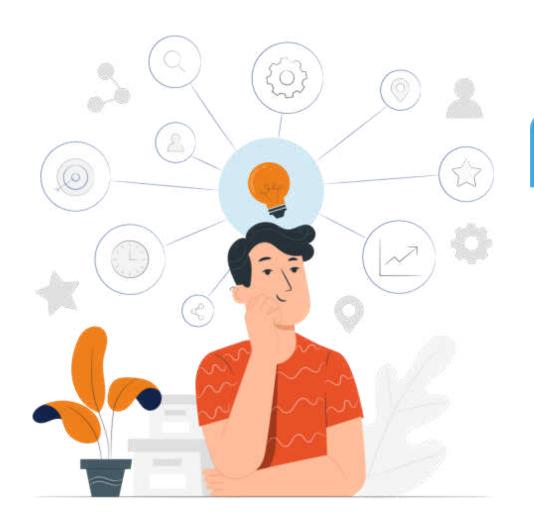


Facilities Offered

SIP/SWP/STRIP/FlexiSTRIP

Why invest in UTI Quant Fund?





"Aims to consistently generate alpha over the broad index through an Integrated Investment Approach."

Combining our in-house proprietary research methodology 'ScoreApha' along with 'Factor Allocation Model' designed to dynamically allocate weights to factors that are expected to do well in the near future."



UTI Quant Fund

(An open-ended equity scheme following a quantitative investment theme)

Product Label

UTI Quant Fund

(An open-ended equity scheme following a quantitative investment theme)

This product is suitable for investors who are seeking*:

- Long term capital appreciation
- Investments predominantly following a quantitative investment theme

Scheme Riskometer Moderate Risk Moderately High Risk Low Risk Low Risk Very High Risk The risk of the scheme is very high UTI Quant Fund



Product labelling assigned during the New Fund Offer (NFO) is based on internal assessment of the scheme characteristics or model portfolio and the same may vary post NFO when the actual investments are made.



Disclaimer

REGISTERED OFFICE: UTI Tower, 'GN' Block, Bandra Kurla Complex, Bandra (E), Mumbai - 400051. Phone: 022 - 66786666. UTI Asset Management Company Ltd (Investment Manager for UTI Mutual Fund) Email: invest@uti.co.in. (CIN-L65991MH2002PLC137867). For more information, please contact the nearest UTI Financial Centre or your AMFI/NISM certified UTI Mutual Fund Independent Financial Advisor (IFA) for a copy of the Statement of Additional Information, Scheme Information Document, and Key Information Memorandum cum Application Form.

Disclaimers:

The illustrations of in-house proprietary factor model are for understanding the working of the model. The model is adaptive in nature as it is updated with incoming data. Individual stocks could be classified under more than one factor at a given point of time. The performance of the internal model does not represent the performance of the scheme. Actual allocation and investing experience may vary. Portfolio will be managed as per the stated investment objective, investment strategy, asset allocation in the scheme information document (SID) and is subject to the changes within the provisions of the SID of the scheme. Past performance may or may not sustain in future.

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The fund Strategy shown is subject to change with respect to peer-set and benchmark. Limits mentioned are internal prudential norms. For asset allocation and related details, please refer to the Scheme Information Document of the respective schemes.

All complaints, regarding UTI Mutual Fund can be directed towards service@uti.co.in and for any unsatisfactory or lack of response visit https://scores.sebi.gov.in (SEBI SCORES portal) and /or visit https://smartodr.in/ (Online Dispute Resolution Portal).



Thank You