

STOXX® USA 900 AX MULTI-FACTOR INDEX

Index description

STOXX single and multi-factor indices aim to harvest the risk premia of several academically validated style factors - Value, Momentum, Quality, Size and Low Risk. At the same time the rules ensure tradability and diversification as well as limit untargeted systematic exposures.

STOXX uses Axioma's risk model and optimizer to construct the factor indices. The STOXX single and multi-factor indices are based on the respective STOXX country or regional benchmark indices.

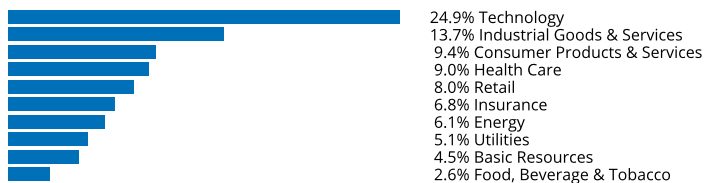
Key facts

- » Invest in targeted factor exposures with managed liquidity and risk profiles across various regions
- » Use of Axioma's factor risk models and portfolio construction expertise to define the factors based on extensive validation from research and having a clear economic rationale
- » Factor family consists of 5 single factor indices (Value, Momentum, Quality, Low Risk, and Size) and one multi-factor index
- » Same index construction rules applied across the factor family
- » Single factor indices maximize the target factor while constraining the exposure to other factors
- » Multi-factor index employs a bottom-up approach by maximizing the exposure to an equally weighted aggregated multi-factor score
- » Ensures tradability by managing turnover and exposure to illiquid positions
- » Ensures diversification using country and industry controls

Descriptive statistics

Index	Market cap (USD bn.)		Components (USD bn.)				Component weight (%)		Turnover (%)
	Full	Free-float	Mean	Median	Largest	Smallest	Largest	Smallest	Last 12 months
STOXX USA 900 Ax Multi-Factor Index	N/A	115.5	0.7	0.3	6.7	0.0	5.8	0.0	50.0
STOXX USA 900 Index	43,810.8	41,996.6	46.7	14.7	2,940.1	2.4	7.0	0.0	2.6

Supersector weighting (top 10)



Country weighting



Risk and return figures¹

Index returns	Return (%)					Annualized return (%)				
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	3Y	5Y
STOXX USA 900 Ax Multi-Factor Index	3.0	14.6	10.6	49.1	70.2	N/A	N/A	10.6	14.3	11.3
STOXX USA 900 Index	3.3	20.6	13.1	43.2	74.4	N/A	N/A	13.2	12.8	11.9
Index volatility and risk	Annualized volatility (%)					Annualized Sharpe ratio ²				
STOXX USA 900 Ax Multi-Factor Index	9.3	15.2	19.4	19.2	22.1	N/A	N/A	0.4	0.7	0.4
STOXX USA 900 Index	9.1	14.0	19.1	18.7	22.2	N/A	N/A	0.6	0.6	0.5
Index to benchmark	Correlation					Tracking error (%)				
STOXX USA 900 Ax Multi-Factor Index	0.8	0.9	1.0	1.0	1.0	5.5	5.9	5.5	5.6	5.8
Index to benchmark	Beta					Annualized information ratio				
STOXX USA 900 Ax Multi-Factor Index	0.9	1.0	1.0	1.0	1.0	-0.8	-1.8	-0.6	0.1	-0.3

¹ For information on data calculation, please refer to STOXX calculation reference guide.

² Based on EURIBOR1M

(USD, gross return), all data as of Jul. 31, 2023

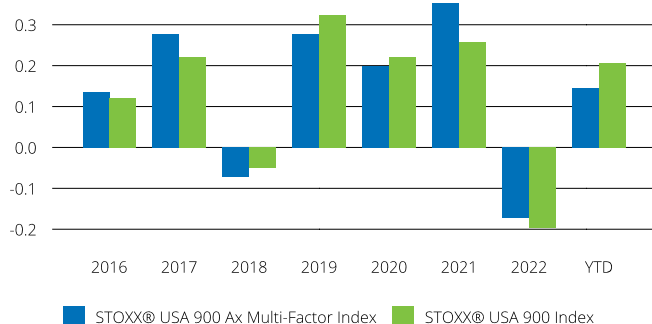
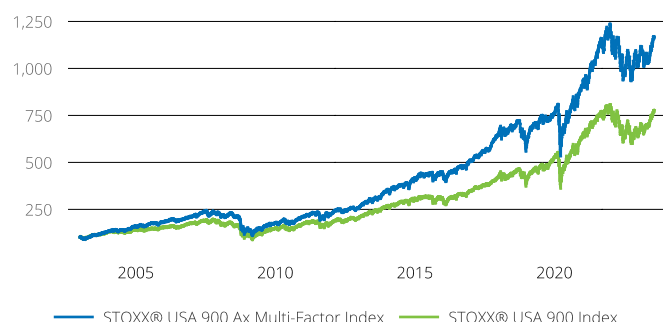
FACTOR AND STRATEGY

STOXX® USA 900 AX MULTI-FACTOR INDEX

Fundamentals (for last 12 months)

Index	Price/earnings incl. negative		Price/earnings excl. negative		Price/ book	Dividend yield (%) ³	Price/ sales	Price/ cash flow
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing
STOXX USA 900 Ax Multi-Factor Index	14.4	15.7	14.1	15.7	3.1	1.8	1.4	10.1
STOXX USA 900 Index	27.3	21.5	23.6	20.8	0.1	1.9	2.4	14.7

Performance and annual returns⁴



Methodology

Bringing together the powerful indexing and analytics capabilities of Qontigo, the STOXX Factor Index suite delivers more clarity to the market for factor investors by relying on the institutionally tested analytics of Axioma Factor Risk Models and advanced portfolio construction techniques. The use of Axioma's risk models ensures strong exposure to the respective target factor (Value, Momentum, Quality, Low Risk, Size, Multi-Factor) while allowing for ease of control over unintended exposures. The inclusion of constraints targets benchmark tracking with industry and country controls, and ensures tradability by limiting exposure to less liquid names and turnover while controlling for effective number of names and weights.

Versions and symbols

Index	ISIN	Symbol	Bloomberg	Reuters
Gross Return EUR	CH0512260735	SA9UMFGR		.SA9UMFGR
Net Return EUR	CH0512260511	SA9UMFR		.SA9UMFR
Price EUR	CH0512260313	SA9UMFP		.SA9UMFP
Gross Return USD	CH0512260552	SA9UMFGV	SA9UMFGV INDEX	.SA9UMFGV
Net Return USD	CH0512260255	SA9UMFV		.SA9UMFV
Price USD	CH0512260271	SA9UMFL		.SA9UMFL

Complete list available here: www.stoxx.com/data/vendor_codes.html

Quick facts

Weighting	Optimization
Cap factor	4.5% / min (20x parent index weight, 8%) / 35%
No. of components	Variable
Review frequency	Quarterly
Calculation/distribution	dayend
Calculation hours	22:15:00 22:15:00
Base value/base date	100 as of Mar. 19, 2012
History	Dec. 31, 2002
Inception date	Jan. 24, 2020

To learn more about the inception date, the currency, the calculation hours and historical values, please see our data vendor code sheet.

CONTACT DETAILS

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BACKTESTED PERFORMANCE

This document contains index performance data based on backtesting, i.e. calculations of how the index might have performed prior to launch if it had existed using the same index methodology and based on historical constituents. Backtested performance information is purely hypothetical and is provided in this document solely for information purposes. Backtested performance does not represent actual performance and should not be interpreted as an indication of actual performance.

CUSTOMIZATION

The index can be used as a basis for the definition of STOXX® Customized Indices, which can be tailored to specific client or mandate needs. STOXX offers customization in almost unlimited forms for example in terms of component selection, weighting schemes and personalized calculation methodologies.

³ gr. div. yield is calculated as gr. return index return minus price index return

⁴ STOXX data from Dec. 31, 2002 to Jul. 31, 2023

(USD, gross return), all data as of Jul. 31, 2023

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Top 10 Components⁵

Company	Supersector	Country	Weight (%)
Accenture PLC Cl A	Industrial Goods & Services	United States	5.78
Costco Wholesale Corp.	Retail	United States	3.99
SYNOPSYS	Technology	United States	3.27
CADENCE DESIGN SYS.	Technology	United States	3.03
MARATHON PETROLEUM	Energy	United States	2.56
Exxon Mobil Corp.	Energy	United States	2.51
ON SEMICON.	Technology	United States	2.21
TE CONNECTIVITY LTD.	Technology	United States	2.16
OLD DOMINION FGT. LINES	Industrial Goods & Services	United States	2.07
Nucor Corp.	Basic Resources	United States	2.06

⁵ Based on the composition as of Jul. 31, 2023