MINIMUM VARIANCE

STOXX® JAPAN 600 MINIMUM VARIANCE UNCONSTRAINED INDEX

Index description

The STOXX Japan 600 Minimum Variance Unconstrained index weights the components of the underlying STOXX Japan 600 index so that portfolio variance is minimized. STOXX uses Axioma's factor model for the optimization process. The Unconstrained version applies loosely stated constraints to seek an improved risk profile. It targets investors seeking a more optimal portfolio in terms of replicated volatility.

Key facts

»Minimized volatility is suitable for risk-averse investors. At the same time, the return of the index is higher than the benchmark.

»Suitable as a liquid underlying for ETFs and structured products. It is easy to replicate as it has fewer components than the underlying Index. It also has predictable rebalancing dates and is optimized to allow tracking (low turnover, transaction costs analysis, etc.).

»Capping constraints are applied in accordance with the Undertakings for Collective Investment in Transferable Securities (UCITS) directive to ensure that funds can easily track the index.

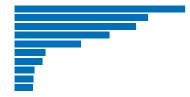
»Two versions - Constrained and Unconstrained - cater to different investor needs.

»The Unconstrained version offers a first-of-its-kind index for a true minimum variance mandate.

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 Japan 600 Minimum Variance Unconstrained Index	N/A	103.9	0.7	0.2	7.8	0.0	7.5	0.0	60.0
STOXX Japan 600 Index	5,319.1	4,519.4	7.5	2.5	197.6	0.7	4.4	0.0	2.6

Supersector weighting (top 10)



23.1% Food, Beverage & Tobacco 18.1% Travel & Leisure 16.5% Real Estate 12.9% Telecommunications 9.0% Industrial Goods & Services 4.2% Personal Care, Drug & Grocery Stores 3.8% Utilities 2.7% Retail 2.6% Technology 2.5% Banks

Country weighting

100.0% Japan

Risk and return figures¹

Index returns				R	eturn (%)			An	nualized ret	turn (%)
	Last month	YTD	1Y	3Y	5Y	Last month	YTD	1Y	ЗY	5Y
STOXX Japan 600 Minimum Variance Unconstrained Index	-0.8	0.2	3.3	-7.3	-11.9	N/A	N/A	3.3	-2.5	-2.5
STOXX Japan 600 Index	4.0	12.1	17.4	17.2	14.8	N/A	N/A	17.6	5.5	2.8
Index volatility and risk	Annualized volatility (%) Annualized Sharpe rati						pe ratio²			
STOXX Japan 600 Minimum Variance Unconstrained Index	8.2	12.3	14.8	13.2	14.0	N/A	N/A	0.1	-0.2	-0.2
STOXX Japan 600 Index	16.9	15.6	18.4	17.6	17.8	N/A	N/A	0.8	0.3	0.2
Index to benchmark	Correlation Tracking					error (%)				
STOXX Japan 600 Minimum Variance Unconstrained Index	0.8	0.8	0.8	0.8	0.8	11.5	9.3	10.1	10.5	10.7
Index to benchmark	Beta Annualized information						ation ratio			
STOXX Japan 600 Minimum Variance Unconstrained Index	0.4	0.6	0.7	0.6	0.6	-5.0	-2.6	-1.4	-0.9	-0.6

¹ For information on data calculation, please refer to STOXX <u>calculation reference guide</u> ² Based on EURIBOR1M

ULI EUKIBUKIM



(USD, gross return), all data as of Jun. 30, 2023

STOXX Ltd. is part of Qontigo

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Fundamentals (for last 12 months)

Index		Price/earnings incl. negative		Price/earnings excl. negative		Dividend yield (%) ³	Price/ sales	Price/ cash flow	
	Trailing	Projected	Trailing	Projected	Trailing	Trailing	Trailing	Trailing	
STOXX Japan 600 Minimum Variance Unconstrained Index	16.2	16.5	13.6	16.4	1.4	2.8	0.9	11.9	
STOXX Japan 600 Index	16.2	14.9	14.9	14.7	1.4	2.7	1.0	14.3	

Performance and annual returns⁴





Methodology

On the basis of the underlying index, a covariance matrix is set up by determining the correlation between each component and specific factors. Using Axioma's factor model, the variance-covariance structure of the components is determined, which is then minimized with respect to applicable constraints. The constraints applied cover individual capping, effective number of assets, rebalancing and turnover. The full list of factors including the requirements to be met can be accessed in our Index rulebook: http://www.stoxx.com/indices/rulebooks.html

STOXX® Japan 600 Index

Index		ISIN	Symbol	Bloomberg	Reuters
Gross Return	EUR	CH0180139393	SA6JUNGR		.XA6JUNGR
Net Return	EUR	CH0180139237	SA6JUNR	SXA6JUNR INDEX	.SXA6JUNR
Net Return	EUR	CH0180139237	SA6JUNR	SXA6JUNR INDEX	.SXA6JUNR
Price	EUR	CH0180139070	SA6JUNP	SXA6JUNP INDEX	.SXA6JUNP
Price	EUR	CH0180139070	SA6JUNP	SXA6JUNP INDEX	.SXA6JUNP
Gross Return	JPY	CH0225791885	SA6JUNGF	SA6JUNGF INDEX	.SA6JUNGF
Net Return	JPY	CH0225791877	SA6JUNF		.SA6JUNF
Net Return	JPY	CH0225791877	SA6JUNF		.SA6JUNF
Price	JPY	CH0225791869	SA6JUNK		.SA6JUNK
Price	JPY	CH0225791869	SA6JUNK		.SA6JUNK

Quick facts

44.0	
Weighting	Optimization
Cap factor	4.5% / 8% / 35%
No. of components	Variable
Review frequency	Monthly
To learn more about the in	ception date, the currency, the calculation hours and historical values, please

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

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

CONTACT DETAILS

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BACKTESTED PERFORMANCE

DACK ICS IED 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 a wide range of customization, 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 Jun. 28, 2002 to Jun. 30, 2023

(USD, gross return), all data as of Jun. 30, 2023

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Top 10 Components⁵

Company	Supersector	Country	Weight (%)	
MCDONALD'S HOLDINGS	Travel & Leisure	Japan	7.51	
SOFTBANK	Telecommunications	Japan	7.49	
SKYLARK HOLDINGS	Travel & Leisure	Japan	5.29	
Meiji Holdings Co. Ltd.	Food, Beverage & Tobacco	Japan	3.46	
NH FOODS	Food, Beverage & Tobacco	Japan	3.01	
Nissin Foods Holdings Co. Ltd.	Food, Beverage & Tobacco	Japan	2.90	
Nippon Telegraph & Telephone C	Telecommunications	Japan	2.79	
Japan Tobacco Inc.	Food, Beverage & Tobacco	Japan	2.61	
NICHIREI	Food, Beverage & Tobacco	Japan	2.40	
KDDI Corp.	Telecommunications	Japan	2.29	

 $^{\rm 5}$ Based on the composition as of Jun. 30, 2023