

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
5E ADVANCED MATERIALS INC	FEAM	Basic Materials
AADI BIOSCIENCE INC	AADI	Health Care
ACM RESEARCH	ACMR	Technology
ACNB CORP.	ACNB	Financials
ACV AUCTIONS	ACVA	Consumer Discretionary
ADMA BIOLOGICS INC	ADMA	Health Care
ADTHEORENT HOLDING COMPANY INC	ADTH	Technology
AEYE INC	LIDR	Industrials
AFFIRM HOLDINGS	AFRM	Industrials
AIRBNB	ABNB	Consumer Discretionary
ALICO INC	ALCO	Consumer Staples
ALIGHT INC (A)	ALIT	Industrials
ALLBIRDS	BIRD	Consumer Discretionary
ALPHA METALLURGICAL RESOURCES INC	AMR	Energy
ALTUS POWER INC (A)	AMPS	Utilities
AMER RLTY INV	ARL	Real Estate
AMPLIFY ENERGY	AMPY	Energy
AMPLITUDE INC	AMPL	Technology
AN2 THERAPEUTICS	ANTX	Health Care
APPLIED BLOCKCHAIN	APLD	Technology
APPLOVIN	APP	Technology
ARCHAEA ENERGY INC (A)	LFG	Utilities
ARCHER AVIATION INC (A)	ACHR	Industrials
ARDMORE SHIPPING	ASC	Industrials
ARENA GROUP HOLDINGS	AREN	Technology
ASTRA SPACE INC	ASTR	Industrials
ATI PHYSICAL THERAPY INC (A)	ATIP	Health Care
AURINIA PHARMACEUTICALS NASDAQ	AUPH	Health Care
AURORA INNOVATION INC (A)	AUR	Industrials
AVEPOINT INC (A)	AVPT	Technology
BABYLON HOLDINGS LTD (A)	BBLN	Health Care
BAKKT HOLDINGS INC (A)	BKKT	Financials
BANKWELL FINANCIAL GROUP	BWFG	Financials
BARK INC (A)	BARK	Consumer Discretionary
BATTALION OIL CORPORATION	BATL	Energy
BAYCOM	BCML	Financials
BCB BANCORP INC.	BCBP	Financials
BENSON HILL INC	BHIL	Consumer Staples
BERKSHIRE GREY INC (A)	BGRY	Industrials
BIRD GLOBAL INC (A)	BRDS	Consumer Discretionary
BLADE AIR MOBILITY INC (A)	BLDE	Industrials
BLEND LABS	BLND	Technology
BLUE OWL CAPITAL	OWL	Financials
BLUEROCK RESIDENTIAL GROWTH REIT	BRG	Real Estate
BOWLERO CORP (A)	BOWL	Consumer Discretionary
BOXED INC (A)	BOXD	Consumer Staples
BRC INC (A)	BRCC	Consumer Staples
BROOKFIELD BUSINESS CORPORATION	BBUC	Financials
BUILD-A-BEAR WORKSHOP	BBW	Consumer Discretionary

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
BUMBLE	BMBL	Technology
CANO HEALTH INC (A)	CANO	Health Care
CAREMAX INC (A)	CMAX	Health Care
CBL & ASSOCIATES PROPERTIES	CBL	Financials
CCC INTELLIGENT SOLUTIONS HOLDINGS INC (CCCS	Technology
CEDAR REALTY TRUST	CDR	Real Estate
CELULARITY INC (A)	CELU	Health Care
CENNTRO ELECTRIC GROUP	CENN	Consumer Discretionary
CEPTON INC (A)	CPTN	Industrials
CERBERUS CYBER SENTINEL	CISO	Industrials
CHARGE ENTERPRISES	CRGE	Technology
CIPHER MINING INC	CIFR	Technology
CLAROS MORTGAGE TRUST	CMTG	Financials
CLEAR SECURE INC	YOU	Technology
CLOVER HEALTH INVESTMENTS CORP (A)	CLOV	Health Care
COINBASE GLOBAL	COIN	Financials
COLONY BANKCORP	CBAN	Financials
COMPASS	COMP	Real Estate
COMPASS DIVERSIFIED	CODI	Financials
COMPOSECURE INC (A)	CMPO	Industrials
CONFLUENT	CFLT	Technology
CONSUMER PORTFOLIO	CPSS	Financials
CORE SCIENTIFIC INC	CORZ	Technology
CTI BIOPHARMA	CTIC	Health Care
CUMULUS MEDIA	CMLS	Consumer Discretionary
CVENT HOLDING CORP (A)	CVT	Technology
CYBEROPTICS CP	CYBE	Technology
CYXTERA TECHNOLOGIES INC (A)	CYXT	Technology
DAKOTA GOLD CORP	DC	Basic Materials
DAVE INC	DAVE	Financials
DESTINATION XL GROUP	DXLG	Consumer Discretionary
DHI GROUP	DHX	Industrials
DIAMOND OFFSHORE DRILLING	DO	Energy
DOCGO INC	DCGO	Health Care
DOMA HOLDINGS INC (A)	DOMA	Financials
DREAM FINDERS HOMES	DFH	Consumer Discretionary
DUOLINGO	DUOL	Consumer Discretionary
EMPIRE PETROLEUM CORP.	EP	Energy
ENERGY VAULT HOLDINGS INC (A)	NRGV	Energy
ENETI INC	NETI	Industrials
ENOCHIAN BIOSCIENCES	ENOB	Health Care
ENOVIX CORP	ENVX	Industrials
ENVIVA INC	EVA	Energy
EQRX INC (A)	EQRX	Health Care
ESQUIRE FINANCIAL HOLDINGS	ESQ	Financials
ESS TECH INC (A)	GWH	Energy
EVGO INC (A)	EVGO	Energy
EVOLV TECHNOLOGIES HOLDINGS INC (A)	EVLV	Financials
EXCELERATE ENERGY	EE	Utilities

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
EXPRESS	EXPR	Consumer Discretionary
FARADAY FUTURE INTELLIGENT ELECTRIC INC	FFIE	Consumer Discretionary
FARMERS & MERCHANTS BANCORP INC.	FMAO	Financials
FATHOM DIGITAL MANUFACTURING CORP (A)	FATH	Industrials
FIRST BUSINESS FINANCIAL SERVICES	FBIZ	Financials
FIRST GUARANTY BANCSHARES	FGBI	Financials
FIRST WESTERN FINANCIAL	MYFW	Financials
FLEX LNG LIMITED	FLNG	Industrials
FOCUS UNIVERSAL	FCUV	Consumer Discretionary
FORGE GLOBAL HOLDINGS INC (A)	FRGE	Financials
FRESHWORKS	FRSH	Technology
FRONTIER COMMUNICATIONS PARENT INC	FYBR	Telecommunications
FVCBANKCORP	FVCB	Financials
GAMBLING.COM GROUP	GAMB	Consumer Discretionary
GELESIS HOLDING INC (A)	GLS	Health Care
GENIUS SPORTS LIMITED (A)	GENI	Consumer Discretionary
GINKGO BIOWORKS HOLDINGS INC (A)	DNA	Health Care
GOLDEN OCEAN GROUP LIMITED	GOGL	Industrials
GREENE COUNTY	GCBC	Financials
GREENIDGE GENERATION HOLDINGS INC	GREE	Technology
GREENLIGHT BIOSCIENCES HOLDINGS (A)	GRNA	Health Care
GULFPORT ENERGY CORP	GPOR	Energy
HELIOGEN INC (A)	HLGN	Energy
HERTZ GLOBAL HOLDINGS	HTZ	Consumer Discretionary
HILLEVAX	HLVX	Health Care
HILLMAN SOLUTIONS CORP (A)	HLMN	Industrials
HIMS AND HERS HEALTH INC (A)	HIMS	Health Care
HIPPO HOLDINGS INC (A)	HIPO	Financials
HOLLEY INC (A)	HLLY	Consumer Discretionary
HUDSON TECH INC	HDSN	Industrials
HUMACYTE INC (A)	HUMA	Health Care
HYCROFT MINING HOLDING CORP (A)	HYMC	Basic Materials
HYZON MOTORS INC (A)	HYZN	Industrials
INDIE SEMICONDUCTOR INC (A)	INDI	Technology
INFORMATION SERVICES GROUP INC.	III	Industrials
INNOVID CORP (A)	CTV	Technology
INSPIRATO INCORPORATED (A)	ISPO	Consumer Discretionary
INSPIRED ENTERTAINMENT	INSE	Consumer Discretionary
INVENTRUST PROPERTIES	IVT	Real Estate
IONQ INC (A)	IONQ	Technology
IRONNET INC (A)	IRNT	Technology
JACKSON FINANCIAL	JXN	Financials
JANUS INTERNATIONAL GROUP (A)	JBI	Consumer Discretionary
JOBY AVIATION INC	JOBY	Industrials
JOHN MARSHALL BANCORP INC	JMSB	Financials
KALEYRA	KLR	Technology
KNOWBE4	KNBE	Technology
KORE GROUP HOLDINGS INC (A)	KORE	Technology
LATCH INC (A)	LTCH	Industrials

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
LEAFLY HOLDINGS INC	LFLY	Technology
LIGHTNING EMOTORS INC	ZEV	Industrials
LIGHTWAVE LOGIC	LWLG	Financials
LINDE PLC	LIN	Basic Materials
LIQUIDIA CORPORATION	LQDA	Health Care
LIVEVOX HOLDINGS INC (A)	LVOX	Technology
LOCAL BOUNTI CORPORATION (A)	LOCL	Consumer Staples
LSB INDUSTRIES	LXU	Basic Materials
LUCID GROUP INC (A)	LCID	Consumer Discretionary
LUMINAR TECHNOLOGIES INC (A)	LAZR	Consumer Discretionary
MANNING & NAPIER	MN	Financials
MARKFORGED HOLDING CORPORATION (A)	MKFG	Industrials
MARQETA	MQ	Industrials
MATTERPORT INC (A)	MTTR	Technology
MICROVAST HOLDINGS INC	MVST	Industrials
MIRION TECHNOLOGIES INC	MIR	Industrials
MOMENTUS INC (A)	MNTS	Industrials
MONEYLION INC (A)	ML	Industrials
MONTAUK RENEWABLES	MNTK	Energy
MOONLAKE IMMUNOTHERAPEUTICS (A)	MLTX	Health Care
MULLEN AUTOMOTIVE INC	MULN	Consumer Discretionary
NACCO INDS INC	NC	Energy
NANO X IMAGING	NNOX	Health Care
NAUTILUS BIOTECHNOLOGY INC	NAUT	Health Care
NAVITAS SEMICONDUCTOR CORP (A)	NVTS	Technology
NERDWALLET	NRDS	Technology
NERDY INC (A)	NRDY	Consumer Discretionary
NEWEGG COMMERCE INC (N SHARES)	NEGG	Health Care
NEXPOINT REAL ESTATE FINANCE	NREF	Financials
NEXTDECADE	NEXT	Energy
NEXTNAV INC (A)	NN	Technology
NOBLE	NE	Energy
NORTHEAST BANK	NBN	Financials
NUSCALE POWER CORPORATION (A)	SMR	Utilities
NUTEX HEALTH	NUTX	Technology
OFFERPAD SOLUTIONS INC (A)	OPAD	Real Estate
OLO	OLO	Technology
ONDAS HOLDINGS	ONDS	Consumer Discretionary
OPFI INC	OPFI	Financials
ORIGIN MATERIALS INC (A)	ORGN	Basic Materials
OSCAR HEALTH	OSCR	Financials
OWLET INC (A)	OWLT	Consumer Discretionary
P3 HEALTH PARTNERS INC (A)	PIII	Health Care
PARDES BIOSCIENCES INC (A)	PRDS	Health Care
PARKE BANCORP	PKBK	Financials
PAYONEER GLOBAL INC (A)	PAYO	Industrials
PCB BANCORP	PCB	Financials
PEAR THERAPEUTICS INC (A)	PEAR	Health Care
PEPGEN INC	PEPG	Health Care

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
PERELLA WEINBERG PARTNERS	FTIV	Financials
PERIMETER SOLUTIONS SA	PRM	Basic Materials
PFSWEB INC	PFSW	Industrials
PIEDMONT LITHIUM	PLL	Basic Materials
PLANET LABS PBC (A)	PL	Technology
PLAYSTUDIOS INC (A)	MYPS	Consumer Discretionary
POINT BIOPHARMA GLOBAL INC	PNT	Health Care
POSHMARK	POSH	Consumer Discretionary
PROFESSIONAL HOLDING	PFHD	Financials
PROTERRA INC (A)	PTRA	Industrials
PUBMATIC	PUBM	Technology
QUAD/GRAPHICS INC.	QUAD	Industrials
QUANTUM SI INC (A)	QSI	Health Care
RAMACO RESOURCES	METC	Energy
RED VIOLET	RDVT	Technology
REDBOX ENTERTAINMENT INC (A)	RDBX	Consumer Discretionary
REDWIRE CORP	RDW	Industrials
RESERVOIR MEDIA INC	RSVR	Consumer Discretionary
RESOLUTE FOREST PRODUCTS	RFP	Basic Materials
RIGETTI COMPUTING INC (A)	RGTI	Financials
RING ENERGY INC	REI	Energy
ROBINHOOD MARKETS	HOOD	Financials
ROBLOX	RBLX	Consumer Discretionary
ROCKET LAB USA INC (A)	RKLB	Industrials
ROCKLEY PHOTONICS HOLDINGS LIMITED (A)	RKLY	Technology
ROOT	ROOT	Financials
ROVER GROUP INC (A)	ROVR	Consumer Discretionary
RUMBLEON INC	RMBL	Consumer Discretionary
RUNWAY GROWTH FINANCE	RWAY	Financials
RYAN SPECIALTY GROUP HOLDINGS	RYAN	Financials
SANDRIDGE ENERGY	SD	Energy
SARCOS TECHNOLOGY AND ROBOTICS CORP (A)	STRC	Industrials
SATELLOGIC INC (A)	SATL	Industrials
SCIENCE 37 HOLDINGS INC	SNCE	Health Care
SEMA4 HOLDINGS CORP (A)	SMFR	Health Care
SHARECARE INC	SHCR	Health Care
SHORE BANCSHARES INC	SHBI	Financials
SIERRA ONCOLOGY	SRRA	Health Care
SILVERBOW RESOURCES	SBOW	Energy
SILVERCREST ASSET MANAGEMENT GROUP INC	SAMG	Financials
SKILLSOFT CORP (A)	SKIL	Industrials
SMARTRENT INC	SMRT	Technology
SOFI TECHNOLOGIES INC	SOFI	Financials
SOLID POWER INC (A)	SLDP	Energy
SOMALOGIC INC (A)	SLGC	Health Care
SONDER HOLDINGS INC	SOND	Consumer Discretionary
SPIRE GLOBAL INC (A)	SPIR	Industrials
SQUARESPACE	SQSP	Technology
SSR MINING	SSRM.	Basic Materials

Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
STARRY GROUP HOLDINGS INC (A)	STRY	Telecommunications
STERLING BANCORP INC	SBT	Financials
STRATUS PROPERTIES INC	STRS	Real Estate
SUNLIGHT FINANCIAL HOLDINGS INC (A)	SUNL	Financials
SUNOPTA INC.	STKL	Consumer Staples
SWK HOLDINGS	SWKH	Financials
SYSTEM1 INC (A)	SST	Technology
TANGO THERAPEUTICS INC	TNGX	Health Care
TENON MEDICAL INC	TNON	Health Care
TERAWULF INC	WULF	Technology
TERRAN ORBITAL CORPORATION (A)	LLAP	Industrials
THE BEACHBODY COMPANY INC (A)	BODY	Consumer Staples
THE ONCOLOGY INSTITUTE INC (A)	TOI	Health Care
THREDUP	TDUP	Consumer Discretionary
TILE SHOP HOLDINGS	TTSH	Consumer Discretionary
TOAST	TOST	Technology
TRANSCONTINENTAL REALTY INVESTORS INC	TCI	Real Estate
TRANSPHORM	TGAN	Technology
TRICIDA	TCDA	Health Care
UIPATH	PATH	Technology
UNITY BANCORP	UNTY	Financials
UNIVERSAL TECHNICAL INSTITUTE	UTI	Consumer Discretionary
URBAN ONE	UONE	Consumer Discretionary
URBAN ONE INC CL D	UONEK	Consumer Discretionary
USCB FINANCIAL HOLDINGS INC (A)	USCB	Financials
VAALCO ENERGY	EGY	Energy
VACASA INC (A)	VCSA	Consumer Discretionary
VALARIS	VAL	Energy
VELO3D INC (A)	VLD	Industrials
VERTEX ENERGY INC.	VTNR	Utilities
VICARIOUS SURGICAL INC (A)	RBOT	Health Care
VICTORY CAPITAL HOLDINGS CLASS A	VCTR	Financials
VINCO VENTURES INC	BBIG	Consumer Discretionary
VINTAGE WINE ESTATES	VWE	Consumer Staples
VIRGIN ORBIT HOLDINGS (A)	VORB	Industrials
VIRIDIAN THERAPEUTICS INC	VRDN	Health Care
VIVID SEATS INC (A)	SEAT	Technology
VIZIO HOLDING	VZIO	Consumer Discretionary
VOLTA INC (A)	VLTA	Energy
WARBY PARKER	WRBY	Health Care
WEATHERFORD INTERNATIONAL	WFRD	Energy
WEJO GROUP LIMITED (A)	WEJO	Technology
WEWORK INC (A)	WE	Real Estate
WEYCO GRP INC	WEYS	Consumer Discretionary
WHEELS UP PARTNERS HOLDINGS LLC (A)	UP	Consumer Discretionary
WISH	WISH	Consumer Discretionary
WM TECHNOLOGY INC (A)	MAPS	Technology
XERIS BIOPHARMA HOLDINGS INC	XERS	Health Care
XOS INC (A)	XOS	Industrials



Reconstitution

Russell 3000® Index - Additions

Company	Symbol	Industry
ZETA GLOBAL HOLDINGS	ZETA	Technology
ZIPRECRUITER	ZIP	Industrials
ZOOMINFO TECHNOLOGIES	ZI	Technology



Reconstitution

For more information about our indexes, please visit ftserussell.com.

© 2022 London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE Global Debt Capital Markets Inc. and FTSE Global Debt Capital Markets Limited (together, "FTSE Canada"), (4) MTSNext Limited ("MTSNext"), (5) Mergent, Inc. ("Mergent"), (6) FTSE Fixed Income LLC ("FTSE FI") and (7) The Yield Book Inc ("YB"). All rights reserved.

FTSE Russell® is a trading name of FTSE, Russell, FTSE Canada, MTSNext, Mergent, FTSE FI, YB. "FTSE®", "Russell®", "FTSE Russell®", "MTS®", "FTSE4Good®", "ICB®", "Mergent®", "The Yield Book®" and all other trademarks and service marks used herein (whether registered or unregistered) are trademarks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, MTSNext, FTSE Canada, Mergent, FTSE FI, YB. FTSE International Limited is authorised and regulated by the Financial Conduct Authority as a benchmark administrator.

All information is provided for information purposes only. All information and data contained in this publication is obtained by the LSE Group, from sources believed by it to be accurate and reliable. Because of the possibility of human and mechanical error as well as other factors, however, such information and data is provided "as is" without warranty of any kind. No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the accuracy, timeliness, completeness, merchantability of any information or of results to be obtained from the use of the FTSE Russell Products or the fitness or suitability of the FTSE Russell Products for any particular purpose to which they might be put. Any representation of historical data accessible through FTSE Russell Products is provided for information purposes only and is not a reliable indicator of future performance.

No responsibility or liability can be accepted by any member of the LSE Group nor their respective directors, officers, employees, partners or licensors for (a) any loss or damage in whole or in part caused by, resulting from, or relating to any error (negligent or otherwise) or other circumstance involved in procuring, collecting, compiling, interpreting, analysing, editing, transcribing, transmitting, communicating or delivering any such information or data or from use of this document or links to this document or (b) any direct, indirect, special, consequential or incidental damages whatsoever, even if any member of the LSE Group is advised in advance of the possibility of such damages, resulting from the use of, or inability to use, such information.

No member of the LSE Group nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing contained in this document or accessible through FTSE Russell Products, including statistical data and industry reports, should be taken as constituting financial or investment advice or a financial promotion.

Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index returns shown may not represent the results of the actual trading of investable assets. Certain returns shown may reflect back-tested performance. All performance presented prior to the index inception date is back-tested performance. Back-tested performance is not actual performance, but is hypothetical. The back-test calculations are based on the same methodology that was in effect when the index was officially launched. However, back-tested data may reflect the application of the index methodology with the benefit of hindsight, and the historic calculations of an index may change from month to month based on revisions to the underlying economic data used in the calculation of the index.

This publication may contain forward-looking assessments. These are based upon a number of assumptions concerning future conditions that ultimately may prove to be inaccurate. Such forward-looking assessments are subject to risks and uncertainties and may be affected by various factors that may cause actual results to differ materially. No member of the LSE Group nor their licensors assume any duty to and do not undertake to update forward-looking assessments.

No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the applicable member of the LSE Group. Use and distribution of the LSE Group data requires a licence from FTSE, Russell, FTSE Canada, MTSNext, Mergent, FTSE FI, YB and/or their respective licensors.