

TRADING PLATFORM

Product Guide

The most up to date information for the following corresponding instrument Spreads, Margin Rates, Overnight Interest (daily) buy /sell as well as other important details can be found within the Trading Platform and on our website within the Trading Info page at the following link: <https://www.avatrade.ca/trading-info/financial-instruments-index>

FX Instrument	Min Nominal Trade Size	Trading hours (GMT)	Symbol	Exclusive to MT5
EUR/USD	1000	24/5	EURUSD	No
GBP/USD	1000	24/5	GBPUSD	No
USD/JPY	1000	24/5	USDJPY	No
EUR/JPY	1000	24/5	EURJPY	No
AUD/USD	1000	24/5	AUDUSD	No
EUR/CHF	1000	24/5	EURCHF	No
EUR/GBP	1000	24/5	EURGBP	No
USD/CAD	1000	24/5	USDCAD	No
USD/CHF	1000	24/5	USDCHF	No
NZD/USD	1000	24/5	NZDUSD	No
AUD/JPY	1000	24/5	AUDJPY	No
GBP/JPY	1000	24/5	GBPJPY	No
EUR/CAD	1000	24/5	EURCAD	No
EUR/AUD	1000	24/5	EURAUD	No
AUD/CAD	1000	24/5	AUDCAD	No
AUD/CHF	1000	24/5	AUDCHF	No
AUD/NZD	1000	24/5	AUDNZD	No
CAD/CHF	1000	24/5	CADCHF	No
CAD/JPY	1000	24/5	CADJPY	No
CHF/JPY	1000	24/5	CHFJPY	No
EUR/NOK	1000	24/5	EURNOK	No
EUR/NZD	1000	24/5	EURNZD	No

EUR/SEK	1000	24/5	EURSEK	No
EUR/TRY	1000	24/5	EURTRY	No
GBP/AUD	1000	24/5	GBPAUD	No
GBP/CAD	1000	24/5	GBPCAD	No
GBP/CHF	1000	24/5	GBPCHF	No
GBP/NZD	1000	24/5	GBPNZD	No
NZD/CAD	1000	24/5	NZDCAD	No
NZD/CHF	1000	24/5	NZDCHF	No
NZD/JPY	1000	24/5	NZDJPY	No
USD/MXN	1000	24/5	USDMXN	No
USD/NOK	1000	24/5	USDNOK	No
USD/SEK	1000	24/5	USDSEK	No
USD/TRY	1000	24/5	USDTRY	No
USD/ZAR	1000	24/5	USDZAR	No
USD/CNY*	1000	24/5	USDCNY	No

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Commodities									
Instrument	Currency	Minimum Trade Size	Increment	Trading hours (GMT)	Quoted Months	Exchange	Units	Symbol	Exclusive to MT5
Crude Oil	USD	10	0.01	22:00-20:59	Monthly	NYMEX	Barrel	CrudeOIL	No
Crude Oil Monthly Futures	USD	10	0.01	22:00-20:59	Jan - Dec (Closed at Expiry)	NYMEX	Barrel	OIL_*month*	No
Gold	USD	1.00	0.01	22:00-20:59	None - Spot Market	#NA	Troy Oz	GOLD	No
Silver	USD	100.00	0.001	22:00-20:59	None - Spot Market	#NA	Troy Oz	SILVER	No
Platinum	USD	1.00	0.10	22:00-20:59	Jan, Apr, Jul, Oct	NYMEX	Troy Oz	PLATINUM	No
Corn	USD	1.00	0.25	00:00-12:44 & 13:30-18:19	Mar, May, Jul, Sep, Dec	CBOT	Bushels (100)	CORN	No
Soybean	USD	1	0.25	00:00-12:44 & 13:30-18:19	Jan, Mar, May, Jul, Aug, Sep, Nov	CBOT	Bushels (100)	SOYBEAN	No
Wheat	USD	1	0.25	00:00-12:44 & 13:30-18:19	Mar, May, Jul, Sep, Dec	CBOT	Bushels (100)	WHEAT	No
Natural Gas	USD	100	0.001	22:00-20:59	Monthly	NYMEX	mmBtu	NATURAL_GAS	No
Heating Oil	USD	1,000	0.0001	22:00-20:59	Monthly	NYMEX	Gallons	HEATING_OIL	No
Gasoline	USD	1,000.00	0.0001	22:00-20:59	Monthly	NYMEX	Gallons	GASOLINE	No
Coffee C	USD	10.00	0.05	08:15-17:29	Mar, May, Jul, Sep, Dec	ICE US	lbs (100)	COFFEE_C	No
Sugar no. 11	USD	100.00	0.01	07:30-16:59	Mar, May, Jul, Oct, Dec	ICE US	lbs (100)	SUGAR#11	No
Cotton no. 2	USD	10.00	0.01	01:00-18:19	Mar, May, Jul, Oct, Dec	ICE US	lbs (100)	COTTON#2	No
Brent Oil	USD	10	0.01	00:00-21:59	Monthly	ICE EUROPE	Barrel	BRENT_OIL	No
Palladium	USD	1	0.05	22:00-20:59	Mar, Jun, Sept, Dec	NYMEX	Troy Oz	PALLADIUM	No
Cocoa	USD	1	1.00	08:45-17:29	Mar, May, Jul, Sep, Dec	ICE US	Metric Ton	COCOA	No

Copper	USD	100	0.0005	22:00-20:59	Monthly (not all months are liquid)	COMEX	lbs (100)	COPPER	No
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Indices										
Instrument	Country	Currency	Min Trade Size	Increment	Trading hours (GMT)	Quoted Months	Exchange	Units	Symbol	Exclusive to MT5
S&P500	US	USD	1	0.25	22:00-20:14 & 20:30-20:59	Mar, Jun, Sep, Dec	CME	Index	S&P500	No
NASDAQ 100	US	USD	1	0.25	22:00-20:14 & 20:30-20:59	Mar, Jun, Sep, Dec	CME	Index	NASDAQ 100	No
DJ 30	US	USD	0.1	1	22:00-20:14 & 20:30-20:59	Mar, Jun, Sep, Dec	CBOT	Index	DJ30	No
CAC 40	France	EUR	1	0.5	06:00-19:59	Monthly (not all months are liquid)	Euronext	Index	CAC40	No
DAX 30	Germany	EUR	0.1	0.5	00:10 - 19:59	Mar, Jun, Sep, Dec	EUREX	Index	DAX30	No
FTSE 100	UK	GBP	0.1	0.5	00:00-19:59	Mar, Jun, Sep, Dec	ICE EUROPE	Index	FTSE100	No

RUSSELL2000	US	USD	1	0.1	22:00-20:14 & 20:30-20:59	Mar, Jun, Sep, Dec	CME	Index	RUSSELL2000	No
DJ EURO STOXX50	EU	EUR	1	1	00:10 - 19:59	Mar, Jun, Sep, Dec	EUREX	Index	DJ_EURO50	No
NIKKEI225	Japan	JPY	100	5	23:30-06:24 & 06:55-20:44	Mar, Jun, Sep, Dec	SGX - Singapore Derivatives Exchange	Index	NIKKEI225	No
SPAIN 35	Spain	EUR	0.1	1	06:00-17:59	Monthly	MEFF	Index	SPAIN35	No
HSI	Hong Kong	HKD	0.1	1	01:15-03:59 & 05:00-08:29 & 09:15-18:59	Monthly	Hong Kong Futures Exchange	Index	HSI	No
SPI 200	Australia	AUD	1	1	23:50-06:29 & 07:10-20:59	Mar, Jun, Sep, Dec	Sydney Futures Exchange	Index	SPI200	No
DOLLAR INDEX	US	USD	10	0.005	00:00-20:59	Mar, Jun, Sep, Dec	ICE US	Index	DOLLAR_INDEX	No
CHINA A50	China	USD	0.1	2.5	01:00-08:29 & 09:00-20:44	Monthly	SGX - Singapore Derivatives Exchange	Index	CHINA_A50	No
TDAX	Germany	EUR	1	0.5	06:00-19:59	Mar, Jun, Sep, Dec	EUREX	Index	TDAX	Yes
MDAX	Germany	EUR	0.1	1	06:00-19:59	Mar, Jun, Sep, Dec	EUREX	Index	MDAX	Yes

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Individual Equities						
Instrument	Country	Min Trade Size	Trading hours (GMT)	Exchange	Symbol	Exclusive to MT5
GROUPON	US	10	13:30-19:59	NASDAQ	#GROUPON	No
APPLE	US	1	13:30-19:59	NASDAQ	#APPLE	No
CISCO SYSTEMS	US	10	13:30-19:59	NASDAQ	#CISCO	No
GOOGLE	US	1	13:30-19:59	NASDAQ	#GOOGLE	No
AMAZON	US	1	13:30-19:59	NASDAQ	#AMAZON	No
INTEL	US	10	13:30-19:59	NASDAQ	#INTEL	No
FACEBOOK	US	10	13:30-19:59	NASDAQ	#FACEBOOK	No
MICROSOFT	US	10	13:30-19:59	NASDAQ	#MICROSOFT	No
TESLA	US	1	13:30-19:59	NASDAQ	#TESLA	No
NETFLIX	US	1	13:30-19:59	NASDAQ	#NETFLIX	No
TEVA	US	10	13:30-19:59	NYSE	#TEVA	No
AMERICAN EXPRESS	US	10	13:30-19:59	NYSE	#AMERICAN_E	No
AT&T	US	10	13:30-19:59	NYSE	#AT&T	No
BERKSHIRE HATHAWAY.B	US	10	13:30-19:59	NYSE	#BERKSHIRE	No
BANK OF AMERICA	US	10	13:30-19:59	NYSE	#BOA	No
BOEING	US	10	13:30-19:59	NYSE	#BOEING	No
CATERPILLAR	US	10	13:30-19:59	NYSE	#CAT	No
CHEVRON	US	10	13:30-19:59	NYSE	#CHEVRON	No
CITIGROUP	US	10	13:30-19:59	NYSE	#CITIGROUP	No
COCA COLA	US	10	13:30-19:59	NYSE	#COCA-COLA	No
WALT DISNEY	US	10	13:30-19:59	NYSE	#DISNEY	No
EXXON MOBIL	US	10	13:30-19:59	NYSE	#EXXONMOBIL	No
GENERAL ELECTRIC	US	10	13:30-19:59	NYSE	#GE	No
GM	US	10	13:30-19:59	NYSE	#GM	No

GOLDMAN SACHS GROUP	US	10	13:30-19:59	NYSE	#GS	No
JOHNSON & JOHNSON	US	10	13:30-19:59	NYSE	#JNJ	No
JP MORGAN CHASE	US	10	13:30-19:59	NYSE	#JP_MORGAN	No
MCDONALDS	US	10	13:30-19:59	NYSE	#MCDONALDS	No
PFIZER	US	10	13:30-19:59	NYSE	#PFIZER	No
NIKE	US	10	13:30-19:59	NASDAQ	#NIKE	No
UNDER ARMOUR	US	10	13:30-19:59	NASDAQ	#UNDERARM	No
PROCTER & GAMBLE	US	10	13:30-19:59	NYSE	#PG	No
WAL MART	US	10	13:30-19:59	NYSE	#WAL_MART	No
TWITTER	US	1	13:30-19:59	NYSE	#TWITTER	No
ALIBABA	US	1	13:30-19:59	NYSE	#ALIBABA	No
VISA	US	1	13:30-19:59	NYSE	#VISA	No
MASTERCARD	US	1	13:30-19:59	NYSE	#MASTERCARD	No
SNAPCHAT	US	10	13:30-19:59	NYSE	#SNAPCHAT	No
UBER	US	1	13:30-19:59	NYSE	#UBER	No
HSBC	UK	100	07:00-15:29	London Stock Exchange	_HSBC	No
VODAFONE	UK	1000	07:00-15:29	London Stock Exchange	_VODAFONE	No
BARCLAYS	UK	100	07:00-15:29	London Stock Exchange	_BARCLAYS	No
RIO TINTO.UK	UK	10	07:00-15:29	London Stock Exchange	_RIO.UK	No
TESCO.UK	UK	1000	07:00-15:29	London Stock Exchange	_TESCO.UK	No
ADIDAS	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_ADIDAS	No
E.ON	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_E.ON	No
SIEMENS	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_SIEMENS	No
BAYER	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_BAYER	No
DEUTSCHE BANK	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_DEUTSCHE_B	No
SAP.DE	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_SAP.DE	No
DEUTSCHE TELEKOM.DE	GERMANY	100	07:00-15:29	Frankfurt Stock Exchange	_DTE.DE	No
RWE.DE	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_RWE.DE	No
BMW.DE	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_BMW.DE	No
DAIMLER.DE	GERMANY	10	07:00-15:29	Frankfurt Stock Exchange	_DAI.DE	No

CREDIT AGRICOLE	FRANCE	10	07:00-15:29	EURONEXT PARIS	_ACA.FR	No
TOTAL	FRANCE	10	07:00-15:29	EURONEXT PARIS	_TOTAL	No
PEUGEOT.FR	FRANCE	10	07:00-15:29	EURONEXT PARIS	_UG.FR	No
VALLOUREC.FR	FRANCE	10	07:00-15:29	EURONEXT PARIS	_VK.FR	No
CARREFOUR.FR	FRANCE	10	07:00-15:29	EURONEXT PARIS	_CA.FR	No
INTESA SANPAOLO	ITALY	100	07:00-15:29	Borsa Italiana	_INTESA_SAN	No
UNICREDITO	ITALY	10	07:00-15:29	Borsa Italiana	_UNICREDITO	No
GENERALI ASSICURAZIONI	ITALY	100	07:00-15:29	Borsa Italiana	_GENERALI	No
TELECOM ITALIA	ITALY	1000	07:00-15:29	Borsa Italiana	_TELECOM_IT	No
SAIPEM.IT	ITALY	10	07:00-15:29	Borsa Italiana	_SPM.IT	No
KINDER MORGAN INC	US	10	13:30-19:59	NYSE	#KINDERMORGAN	Yes
JD.COM INC-ADR	US	1	13:30-19:59	NASDAQ	#JD.COM	Yes
SCHWAB (CHARLES) CORP	US	1	13:30-19:59	NYSE	#CHARLESSCHWAB	Yes
SCHLUMBERGER LTD	US	1	13:30-19:59	NYSE	#SCHLUMBERGER	Yes
MICRON TECHNOLOGY INC	US	1	13:30-19:59	NASDAQ	#MICRONTECH	Yes
BOSTON SCIENTIFIC CORP	US	1	13:30-19:59	NYSE	#BOSTONSCIENTIFIC	Yes
BANK OF NEW YORK MELLON CORP	US	1	13:30-19:59	NYSE	#BNYMELLON	Yes
COMCAST CORP-CLASS A	US	1	13:30-19:59	NASDAQ	#COMCAST	Yes
BRISTOL-MYERS SQUIBB CO	US	1	13:30-19:59	NYSE	#BRISTOL-MYERS	Yes
WELLS FARGO & CO	US	1	13:30-19:59	NYSE	#WELLSFARGO	Yes
ALTRIA GROUP INC	US	1	13:30-19:59	NYSE	#ALTRIA	Yes
OCCIDENTAL PETROLEUM CORP	US	1	13:30-19:59	NYSE	#OCCIDENTAL	Yes
EXELON CORP	US	1	13:30-19:59	NYSE	#EXELON	Yes
US BANCORP	US	1	13:30-19:59	NYSE	#BANCORP	Yes
CVS HEALTH CORP	US	1	13:30-19:59	NYSE	#CVS	Yes
TJX COMPANIES INC	US	1	13:30-19:59	NYSE	#TJX	Yes
MONDELEZ INTERNATIONAL INC-A	US	1	13:30-19:59	NASDAQ	#MONDELEZ	Yes
WALGREENS BOOTS ALLIANCE INC	US	1	13:30-19:59	NASDAQ	#WALGREENS	Yes
SOUTHERN CO/THE	US	1	13:30-19:59	NYSE	#SOUTHERN	Yes
ORACLE CORP	US	1	13:30-19:59	NYSE	#ORACLE	Yes

CONOCOPHILLIPS	US	1	13:30-19:59	NYSE	#CONOCOPHILLIPS	Yes
GILEAD SCIENCES INC	US	1	13:30-19:59	NASDAQ	#GILEAD	Yes
ABBVIE INC	US	1	13:30-19:59	NYSE	#ABBVIE	Yes
COLGATE-PALMOLIVE CO	US	1	13:30-19:59	NYSE	#COLGATE	Yes
QUALCOMM INC	US	1	13:30-19:59	NASDAQ	#QUALCOMM	Yes
CSX CORP	US	1	13:30-19:59	NASDAQ	#CSX	Yes
DOMINION ENERGY INC	US	1	13:30-19:59	NYSE	#DOMINION	Yes
T-MOBILE US INC	US	1	13:30-19:59	NASDAQ	#T-MOBILE	Yes
PHILIP MORRIS INTERNATIONAL	US	1	13:30-19:59	NYSE	#PHILIPMORRIS	Yes
PROLOGIS INC	US	1	13:30-19:59	NYSE	#PROLOGIS	Yes
MERCK & CO. INC	US	1	13:30-19:59	NYSE	#MERCK	Yes
ABBOTT LABORATORIES	US	1	13:30-19:59	NYSE	#ABBOTT	Yes
EOG RESOURCES INC	US	1	13:30-19:59	NYSE	#EOG	Yes
DUKE ENERGY CORP	US	1	13:30-19:59	NYSE	#DUKEENERGY	Yes
INTERCONTINENTAL EXCHANGE IN	US	1	13:30-19:59	NYSE	#ICE	Yes
CELGENE CORP	US	1	13:30-19:59	NASDAQ	#CELGENE	Yes
UNITED PARCEL SERVICE-CL B	US	1	13:30-19:59	NYSE	#UNITEDPARCEL	Yes
MARSH & MCLENNAN COS	US	1	13:30-19:59	NYSE	#MMC	Yes
LOWE'S COS INC	US	1	13:30-19:59	NYSE	#LOWES	Yes
ELI LILLY & CO	US	1	13:30-19:59	NYSE	#ELILILLY	Yes
BAIDU INC - SPON ADR	US	1	13:30-19:59	NASDAQ	#BAIDU	Yes
ZOETIS INC	US	1	13:30-19:59	NYSE	#ZOETIS	Yes
TEXAS INSTRUMENTS INC	US	1	13:30-19:59	NASDAQ	#TEXASINSTRUMENTS	Yes
WASTE MANAGEMENT INC	US	1	13:30-19:59	NYSE	#WASTEMGMT	Yes
PAYPAL HOLDINGS INC	US	1	13:30-19:59	NASDAQ	#PAYPAL	Yes
PEPSICO INC	US	1	13:30-19:59	NASDAQ	#PEPSICO	Yes
CROWN CASTLE INTL CORP	US	1	13:30-19:59	NYSE	#CROWNCastle	Yes
HCA HEALTHCARE INC	US	1	13:30-19:59	NYSE	#HCA	Yes
MARRIOTT INTERNATIONAL -CL A	US	1	13:30-19:59	NASDAQ	#MARRIOTT	Yes
IBM	US	1	13:30-19:59	NASDAQ	#IBM	Yes

PNC FINANCIAL SERVICES GROUP	US	1	13:30-19:59	NYSE	#PNC	Yes
DANAHER CORP	US	1	13:30-19:59	NYSE	#DANAHER	Yes
ILLINOIS TOOL WORKS	US	1	13:30-19:59	NYSE	#ITW	Yes
CHUBB LTD	US	1	13:30-19:59	NYSE	#CHUBB	Yes
SALESFORCE.COM INC	US	1	13:30-19:59	NYSE	#SALESFORCE	Yes
CIGNA CORP	US	1	13:30-19:59	NYSE	#CIGNA	Yes
NVIDIA CORP	US	1	13:30-19:59	NASDAQ	#NVIDIA	Yes
FEDEX CORP	US	1	13:30-19:59	NYSE	#FEDEX	Yes
DEERE & CO	US	1	13:30-19:59	NYSE	#JOHNDEERE	Yes
SIMON PROPERTY GROUP INC	US	1	13:30-19:59	NYSE	#SIMONPROPERTY	Yes
AUTOMATIC DATA PROCESSING	US	1	13:30-19:59	NASDAQ	#ADP	Yes
3M CO	US	1	13:30-19:59	NYSE	#3M	Yes
UNION PACIFIC CORP	US	1	13:30-19:59	NYSE	#UNIONPACIFIC	Yes
RAYTHEON COMPANY	US	1	13:30-19:59	NYSE	#RAYTHEON	Yes
HONEYWELL INTERNATIONAL INC	US	1	13:30-19:59	NYSE	#HONEYWELL	Yes
VERTEX PHARMACEUTICALS INC	US	1	13:30-19:59	NASDAQ	#VERTEX	Yes
GENERAL DYNAMICS CORP	US	1	13:30-19:59	NYSE	#GD	Yes
ESTEE LAUDER COMPANIES-CL A	US	1	13:30-19:59	NYSE	#ESTEELAUDER	Yes
ASML HOLDING NV-NY REG SHS	US	1	13:30-19:59	Euronext Amsterdam	#ASML	Yes
ACCENTURE PLC-CL A	US	1	13:30-19:59	NYSE	#ACCENTURE	Yes
NORFOLK SOUTHERN CORP	US	1	13:30-19:59	NYSE	#NORFOLKSOUTHERN	Yes
ECOLAB INC	US	1	13:30-19:59	NYSE	#ECOLAB	Yes
LINDE PLC	US	1	13:30-19:59	NYSE	#LINDE	Yes
CME GROUP INC	US	1	13:30-19:59	NASDAQ	#CMEGROUP	Yes
NEXTERA ENERGY INC	US	1	13:30-19:59	NYSE	#NEXTENERGY	Yes
STRYKER CORP	US	1	13:30-19:59	NYSE	#STRYKER	Yes
HOME DEPOT INC	US	1	13:30-19:59	NYSE	#HOMEDEPOT	Yes
WORKDAY INC-CLASS A	US	1	13:30-19:59	NASDAQ	#WORKDAY	Yes
BIOGEN INC	US	1	13:30-19:59	NASDAQ	#BIOGEN	Yes
S&P GLOBAL INC	US	1	13:30-19:59	NYSE	#S&PGLOBAL	Yes

BECTON DICKINSON AND CO	US	0.1	13:30-19:59	NYSE	#BECTONDICKINSON	Yes
COSTCO WHOLESALE CORP	US	0.1	13:30-19:59	NASDAQ	#COSTCO	Yes
INTUIT INC	US	0.1	13:30-19:59	NASDAQ	#INTUIT	Yes
BROADCOM INC	US	0.1	13:30-19:59	NASDAQ	#BROADCOM	Yes
ANTHEM INC	US	0.1	13:30-19:59	NYSE	#ANTHEM	Yes
REGENERON PHARMACEUTICALS	US	0.1	13:30-19:59	NASDAQ	#REGENERON	Yes
THERMO FISHER SCIENTIFIC INC	US	0.1	13:30-19:59	NYSE	#THERMOFISHER	Yes
ADOBE INC	US	0.1	13:30-19:59	NASDAQ	#ADOBE	Yes
NORTHROP GRUMMAN CORP	US	0.1	13:30-19:59	NYSE	#NORTHROP	Yes
ILLUMINA INC	US	0.1	13:30-19:59	NASDAQ	#ILLUMINA	Yes
CHARTER COMMUNICATIONS INC-A	US	0.1	13:30-19:59	NASDAQ	#CHARTER	Yes
BLACKROCK INC	US	0.1	13:30-19:59	NYSE	#BLACKROCK	Yes
INTUITIVE SURGICAL INC	US	0.1	13:30-19:59	NASDAQ	#INTUITIVE	Yes
BOOKING HOLDINGS INC	US	0.1	13:30-19:59	NASDAQ	#BOOKING.COM	Yes
CANOPY GROWTH CORP	US	1	13:30-19:59	NYSE	#CANOPYGROWTH	Yes
KRAFT HEINZ CO	US	1	13:30-19:59	NASDAQ	#KRAFTHEINZ	Yes
TARGET CORP	US	1	13:30-19:59	NYSE	#TARGET	Yes
EBAY INC	US	1	13:30-19:59	NASDAQ	#EBAY	Yes
DELTA AIR LINES INC	US	1	13:30-19:59	NYSE	#DELTAAIR	Yes
BP	UK	100	07:00-15:29	LSE	_BP	Yes
AIRBUS	FRE	1	07:00-15:29	Euronext	_AIRBUS	Yes
UNITEDHEALTH GROUP INC	US	1	13:30-19:59	NYSE	#UNITEDHEALTH	Yes
AMGEN INC	US	1	13:30-19:59	NASDAQ	#AMGEN	Yes
AMERICAN TOWER CORP	US	1	13:30-19:59	NYSE	#AMERICANTOWER	Yes
EMERSON ELECTRIC CO	US	1	13:30-19:59	NYSE	#EMERSONELEC	Yes
PHILLIPS 66	US	1	13:30-19:59	NYSE	#PHILLIPS66	Yes
PROGRESSIVE CORP	US	1	13:30-19:59	NYSE	#PROGRESSIVE	Yes
KIMBERLY-CLARK CORP	US	1	13:30-19:59	NYSE	#KIMBERLYCLARK	Yes
METLIFE INC	US	1	13:30-19:59	NYSE	#METLIFE	Yes
DOW INC	US	1	13:30-19:59	NYSE	#DOWINC	Yes

AIR PRODUCTS & CHEMICALS INC	US	1	13:30-19:59	NYSE	#APD	Yes
BAXTER INTERNATIONAL INC	US	1	13:30-19:59	NYSE	#BAXTER	Yes
AON PLC	US	1	13:30-19:59	NYSE	#AON	Yes
AMERICAN ELECTRIC POWER	US	1	13:30-19:59	NYSE	#AEP	Yes
SHERWIN-WILLIAMS CO/THE	US	0.1	13:30-19:59	NYSE	#SHW	Yes
MARATHON PETROLEUM CORP	US	1	13:30-19:59	NYSE	#MARATHON	Yes
ANALOG DEVICES INC	US	1	13:30-19:59	NASDAQ	#ANALOGDEV	Yes
CAPITAL ONE FINANCIAL CORP	US	1	13:30-19:59	NYSE	#CAPITALONEFIN	Yes
EDWARDS LIFESCIENCES CORP	US	1	13:30-19:59	NYSE	#EDWARDSLIFESC	Yes
APPLIED MATERIALS INC	US	1	13:30-19:59	NASDAQ	#AMAT	Yes
PRUDENTIAL FINANCIAL INC	US	1	13:30-19:59	NYSE	#PRUDENTIAL	Yes
EQUINIX INC	US	0.1	13:30-19:59	NASDAQ	#EQUINIX	Yes
AMERICAN INTERNATIONAL GROUP	US	1	13:30-19:59	NYSE	#AIG	Yes
BB&T CORP	US	1	13:30-19:59	NYSE	#BB&T	Yes
AFLAC INC	US	1	13:30-19:59	NYSE	#AFLAC	Yes
FIDELITY NATIONAL INFO SERV	US	1	13:30-19:59	NYSE	#FIDELITY	Yes
ACTIVISION BLIZZARD INC	US	1	13:30-19:59	NASDAQ	#BLIZZARD	Yes
ROPER TECHNOLOGIES INC	US	0.1	13:30-19:59	NYSE	#ROPERTECH	Yes
AUTODESK INC	US	1	13:30-19:59	NASDAQ	#AUTODESK	Yes
TRAVELERS COS INC/THE	US	1	13:30-19:59	NYSE	#TRAVELERS	Yes
FORD MOTOR CO	US	10	13:30-19:59	NYSE	#FORD	Yes
CARNIVAL CORP	US	1	13:30-19:59	NYSE	#CARNIVAL	Yes
HUMANA INC	US	0.1	13:30-19:59	NYSE	#HUMANA	Yes
WILLIAMS COS INC	US	1	13:30-19:59	NYSE	#WILLIAMS	Yes
VALERO ENERGY CORP	US	1	13:30-19:59	NYSE	#VALERO	Yes
FISERV INC	US	1	13:30-19:59	NASDAQ	#FISERV	Yes
EATON CORP PLC	US	1	13:30-19:59	NYSE	#EATON	Yes
MOODY'S CORP	US	1	13:30-19:59	NYSE	#MOODYS	Yes
SEMPRA ENERGY	US	1	13:30-19:59	NYSE	#SEMPRA	Yes
ROSS STORES INC	US	1	13:30-19:59	NASDAQ	#ROST	Yes

VF CORP	US	1	13:30-19:59	NYSE	#VFC	Yes
SYSCO CORP	US	1	13:30-19:59	NYSE	#SYSCO	Yes
NETEASE INC-ADR	US	0.1	13:30-19:59	NASDAQ	#NETEASE	Yes
XILINX INC	US	1	13:30-19:59	NASDAQ	#XLNX	Yes
ALLSTATE CORP	US	1	13:30-19:59	NYSE	#ALLSTATE	Yes
ALEXION PHARMACEUTICALS INC	US	1	13:30-19:59	NASDAQ	#ALEXION	Yes
WELLTOWER INC	US	1	13:30-19:59	NYSE	#WELLTOWER	Yes
O'REILLY AUTOMOTIVE INC	US	0.1	13:30-19:59	NASDAQ	#OREILLYAUTO	Yes
YUM! BRANDS INC	US	1	13:30-19:59	NYSE	#YUMBRANDS	Yes
DOLLAR GENERAL CORP	US	1	13:30-19:59	NYSE	#DOLLARGENERAL	Yes
GENERAL MILLS INC	US	1	13:30-19:59	NYSE	#GENERALMILLS	Yes
NXP SEMICONDUCTORS NV	US	1	13:30-19:59	NASDAQ	#NXPSEMI	Yes
HP INC	US	10	13:30-19:59	NYSE	#HP	Yes
PUBLIC SERVICE ENTERPRISE GP	US	1	13:30-19:59	NYSE	#PEG	Yes
AMPHENOL CORP-CL A	US	1	13:30-19:59	NYSE	#AMPHENOL	Yes
SOUTHWEST AIRLINES CO	US	1	13:30-19:59	NYSE	#SOUTHWESTAIR	Yes
PAYCHEX INC	US	1	13:30-19:59	NASDAQ	#PAYCHEX	Yes
MONSTER BEVERAGE CORP	US	1	13:30-19:59	NASDAQ	#MONSTER	Yes
ADVANCED MICRO DEVICES	US	1	13:30-19:59	NASDAQ	#AMD	Yes
ONEOK INC	US	1	13:30-19:59	NYSE	#ONEOK	Yes
FORTIVE CORP	US	1	13:30-19:59	NYSE	#FORTIVE	Yes
SIRIUS XM HOLDINGS INC	US	10	13:30-19:59	NASDAQ	#SIRIUSXM	Yes
XCEL ENERGY INC	US	1	13:30-19:59	NASDAQ	#XCEL	Yes
TE CONNECTIVITY LTD	US	1	13:30-19:59	NYSE	#TECONNECT	Yes
IQVIA HOLDINGS INC	US	1	13:30-19:59	NYSE	#IQVIA	Yes
LAM RESEARCH CORP	US	1	13:30-19:59	NASDAQ	#LRCX	Yes
AVALONBAY COMMUNITIES INC	US	1	13:30-19:59	NYSE	#AVALONBAYCOMM	Yes
EQUITY RESIDENTIAL	US	1	13:30-19:59	NYSE	#EQR	Yes
BAKER HUGHES A GE CO	US	1	13:30-19:59	NYSE	#BAKERHUGHES	Yes
SUNTRUST BANKS INC	US	1	13:30-19:59	NYSE	#SUNTRUST	Yes

CONSOLIDATED EDISON INC	US	1	13:30-19:59	NYSE	#EDISON	Yes
PPG INDUSTRIES INC	US	1	13:30-19:59	NYSE	#PPGIND	Yes
CORNING INC	US	1	13:30-19:59	NYSE	#CORNING	Yes
DIGITAL REALTY TRUST INC	US	1	13:30-19:59	NYSE	#DLR	Yes
HALLIBURTON CO	US	10	13:30-19:59	NYSE	#HALLIBURTON	Yes
ZIMMER BIOMET HOLDINGS INC	US	1	13:30-19:59	NYSE	#ZBH	Yes
AUTOZONE INC	US	0.1	13:30-19:59	NYSE	#AUTOZONE	Yes
STATE STREET CORP	US	1	13:30-19:59	NYSE	#STATESTREET	Yes
TYSON FOODS INC-CL A	US	1	13:30-19:59	NYSE	#TYSONFOODS	Yes
PIONEER NATURAL RESOURCES CO	US	1	13:30-19:59	NYSE	#PXD	Yes
HILTON WORLDWIDE HOLDINGS IN	US	1	13:30-19:59	NYSE	#HILTON	Yes
DOLLAR TREE INC	US	1	13:30-19:59	NASDAQ	#DOLLARTREE	Yes
CTRIP.COM INTERNATIONAL-ADR	US	1	13:30-19:59	NASDAQ	#CTRP	Yes
WEC ENERGY GROUP INC	US	1	13:30-19:59	NYSE	#WECENERGY	Yes
T ROWE PRICE GROUP INC	US	1	13:30-19:59	NASDAQ	#TROWEPRICE	Yes
TRANSDIGM GROUP INC	US	0.1	13:30-19:59	NYSE	#TRANSDIGM	Yes
ROYAL CARIBBEAN CRUISES LTD	US	1	13:30-19:59	NYSE	#ROYALCARIBBEAN	Yes
MERCADOLIBRE INC	US	0.1	13:30-19:59	NASDAQ	#MERCADOLIBRE	Yes
ARISTA NETWORKS INC	US	0.1	13:30-19:59	NYSE	#ARISTANETWORKS	Yes
DISCOVER FINANCIAL SERVICES	US	1	13:30-19:59	NYSE	#DFS	Yes
HERSHEY CO/THE	US	1	13:30-19:59	NYSE	#HERSHEY	Yes
PACCAR INC	US	1	13:30-19:59	NASDAQ	#PACCAR	Yes
ARCHER-DANIELS-MIDLAND CO	US	1	13:30-19:59	NYSE	#ADM	Yes
ALIGN TECHNOLOGY INC	US	0.1	13:30-19:59	NASDAQ	#ALIGNTECH	Yes
MOTOROLA SOLUTIONS INC	US	1	13:30-19:59	NYSE	#MOTOROLA	Yes
HORMEL FOODS CORP	US	1	13:30-19:59	NYSE	#HORMELFOODS	Yes
SYNCHRONY FINANCIAL	US	1	13:30-19:59	NYSE	#SYNCHRONY	Yes
PARKER HANNIFIN CORP	US	1	13:30-19:59	NYSE	#PARKERHANNIFIN	Yes
WILLIS TOWERS WATSON PLC	US	1	13:30-19:59	NASDAQ	#WILLISTOWERS	Yes
PPL CORP	US	1	13:30-19:59	NYSE	#PPL	Yes

VENTAS INC	US	1	13:30-19:59	NYSE	#VENTAS	Yes
DTE ENERGY COMPANY	US	1	13:30-19:59	NYSE	#DTE	Yes
SBA COMMUNICATIONS CORP	US	1	13:30-19:59	NASDAQ	#SBACOMM	Yes
EVERSOURCE ENERGY	US	1	13:30-19:59	NYSE	#EVERSOURCE	Yes
M & T BANK CORP	US	1	13:30-19:59	NYSE	#MTB	Yes
CONCHO RESOURCES INC	US	1	13:30-19:59	NYSE	#CONCHO	Yes
VERISIGN INC	US	1	13:30-19:59	NASDAQ	#VERSIGN	Yes
FOX CORP - CLASS A	US	1	13:30-19:59	NASDAQ	#FOX	Yes
UNITED CONTINENTAL HOLDINGS	US	1	13:30-19:59	NASDAQ	#UNITEDCONTINENTAL	Yes
VERISK ANALYTICS INC	US	1	13:30-19:59	NASDAQ	#VERISK	Yes
REALTY INCOME CORP	US	1	13:30-19:59	NYSE	#REALTYINC	Yes
MCKESSON CORP	US	1	13:30-19:59	NYSE	#MCKESSON	Yes
FIRSTENERGY CORP	US	1	13:30-19:59	NYSE	#FIRSTENERGY	Yes
GLOBAL PAYMENTS INC	US	1	13:30-19:59	NYSE	#GLOBALPAYMENTS	Yes
IHS MARKIT LTD	US	1	13:30-19:59	NASDAQ	#IHSMARKIT	Yes
ROCKWELL AUTOMATION INC	US	1	13:30-19:59	NYSE	#ROCKWELLAUTO	Yes
HEWLETT PACKARD ENTERPRISE	US	10	13:30-19:59	NYSE	#HEWLETPACKARD	Yes
LULULEMON ATHLETICA INC	US	1	13:30-19:59	NASDAQ	#LULULEMON	Yes
CINTAS CORP	US	1	13:30-19:59	NASDAQ	#CINTAS	Yes
FLEETCOR TECHNOLOGIES INC	US	0.1	13:30-19:59	NYSE	#FLEETCOR	Yes
APTIV PLC	US	1	13:30-19:59	NYSE	#APTIV	Yes
BOSTON PROPERTIES INC	US	1	13:30-19:59	NYSE	#BOSTONPROPERTIES	Yes
STANLEY BLACK & DECKER INC	US	1	13:30-19:59	NYSE	#STANLEYBLACK	Yes
MICROCHIP TECHNOLOGY INC	US	1	13:30-19:59	NASDAQ	#MICROCHIP	Yes
ULTA BEAUTY INC	US	0.1	13:30-19:59	NASDAQ	#ULTABEAUTY	Yes
NORTHERN TRUST CORP	US	1	13:30-19:59	NASDAQ	#NORTHERNTRUST	Yes
FIFTH THIRD BANCORP	US	1	13:30-19:59	NASDAQ	#FITB	Yes
CLOROX COMPANY	US	1	13:30-19:59	NYSE	#CLOROX	Yes
KLA-TENCOR CORP	US	1	13:30-19:59	NASDAQ	#KLAC	Yes
MCCORMICK & CO-NON VTG SHRS	US	1	13:30-19:59	NYSE	#MCCORMICK	Yes

WEYERHAEUSER CO	US	1	13:30-19:59	NYSE	#WEYERHAEUSER	Yes
CHIPOTLE MEXICAN GRILL INC	US	0.1	13:30-19:59	NYSE	#CHIPOTLE	Yes
BALL CORP	US	1	13:30-19:59	NYSE	#BALLCORP	Yes
KELLOGG CO	US	1	13:30-19:59	NYSE	#KELLOGG	Yes
IDEXX LABORATORIES INC	US	0.1	13:30-19:59	NASDAQ	#IDEXLAB	Yes
ESSEX PROPERTY TRUST INC	US	0.1	13:30-19:59	NYSE	#ESSESPROP	Yes
BEST BUY CO INC	US	1	13:30-19:59	NYSE	#BESTBUY	Yes
DISCOVERY INC-C	US	1	13:30-19:59	NASDAQ	#DISCOVERY	Yes
HARRIS CORP	US	1	13:30-19:59	NYSE	#HARRISCORP	Yes
NEWMONT MINING CORP	US	1	13:30-19:59	NYSE	#NEWMONTMINING	Yes
AMETEK INC	US	1	13:30-19:59	NYSE	#AMETEK	Yes
FREEPORT-MCMORAN INC	US	10	13:30-19:59	NYSE	#FREEPORT	Yes
KROGER CO	US	10	13:30-19:59	NYSE	#KROGER	Yes
FASTENAL CO	US	1	13:30-19:59	NASDAQ	#FASTENAL	Yes
INTERNATIONAL PAPER CO	US	1	13:30-19:59	NYSE	#INTERNATIONALPAPER	Yes
AMERICAN WATER WORKS CO INC	US	1	13:30-19:59	NYSE	#AWK	Yes
INCYTE CORP	US	1	13:30-19:59	NASDAQ	#INCYTE	Yes
CERNER CORP	US	1	13:30-19:59	NASDAQ	#CERNER	Yes
LIBERTY GLOBAL PLC-A	US	1	13:30-19:59	NASDAQ	#LIBERTYGLOBAL	Yes
AMERIPRISE FINANCIAL INC	US	1	13:30-19:59	NYSE	#AMP	Yes
HESS CORP	US	1	13:30-19:59	NYSE	#HESS	Yes
METTLER-TOLEDO INTERNATIONAL	US	0.1	13:30-19:59	NYSE	#METTLER	Yes
CADENCE DESIGN SYS INC	US	1	13:30-19:59	NASDAQ	#CADENCEDESIGN	Yes
NUCOR CORP	US	1	13:30-19:59	NYSE	#NUCOR	Yes
ENTERGY CORP	US	1	13:30-19:59	NYSE	#ENTERGY	Yes
WATERS CORP	US	1	13:30-19:59	NYSE	#WATERSCORP	Yes
CBS CORP-CLASS B NON VOTING	US	1	13:30-19:59	NYSE	#CBS	Yes
AMEREN CORPORATION	US	1	13:30-19:59	NYSE	#AMEREN	Yes
HARTFORD FINANCIAL SVCS GRP	US	1	13:30-19:59	NYSE	#HIG	Yes
EXPEDIA GROUP INC	US	1	13:30-19:59	NASDAQ	#EXPEDIA	Yes

CHURCH & DWIGHT CO INC	US	1	13:30-19:59	NYSE	#CHD	Yes
SYNOPSYS INC	US	1	13:30-19:59	NASDAQ	#SYNOPSYS	Yes
NETAPP INC	US	1	13:30-19:59	NASDAQ	#NETAPP	Yes
MSCI INC	US	1	13:30-19:59	NYSE	#MSCIINC	Yes
FRANKLIN RESOURCES INC	US	1	13:30-19:59	NYSE	#FRANKLIN	Yes
WW GRAINGER INC	US	0.1	13:30-19:59	NYSE	#WWGRAINGER	Yes
DXC TECHNOLOGY CO	US	1	13:30-19:59	NYSE	#DXCTECH	Yes
CBRE GROUP INC - A	US	1	13:30-19:59	NYSE	#CBRE	Yes
DIAMONDBACK ENERGY INC	US	1	13:30-19:59	NASDAQ	#DIAMONDBACK	Yes
KEYSIGHT TECHNOLOGIES IN	US	1	13:30-19:59	NYSE	#KEYSIGHTTECH	Yes
GARMIN LTD	US	1	13:30-19:59	NASDAQ	#GARMIN	Yes
KEYCORP	US	10	13:30-19:59	NYSE	#KEYCORP	Yes
OMNICOM GROUP	US	1	13:30-19:59	NYSE	#OMNICOM	Yes
GENUINE PARTS CO	US	1	13:30-19:59	NYSE	#GENUINEPARTS	Yes
BIOMARIN PHARMACEUTICAL INC	US	1	13:30-19:59	NASDAQ	#BIOMARIN	Yes
ALEXANDRIA REAL ESTATE EQUIT	US	1	13:30-19:59	NYSE	#ARE	Yes
VULCAN MATERIALS CO	US	1	13:30-19:59	NYSE	#VULCANMATERIALS	Yes
AMERISOURCEBERGEN CORP	US	1	13:30-19:59	NYSE	#ABC	Yes
ANSYS INC	US	1	13:30-19:59	NASDAQ	#ANSS	Yes
CITIZENS FINANCIAL GROUP	US	1	13:30-19:59	NYSE	#CITIZENSFINANCIAL	Yes
CMS ENERGY CORP	US	1	13:30-19:59	NYSE	#CMSENERGY	Yes
DR HORTON INC	US	1	13:30-19:59	NYSE	#DRHORTON	Yes
DISH NETWORK CORP-A	US	1	13:30-19:59	NASDAQ	#DISH	Yes
LENNAR CORP-A	US	1	13:30-19:59	NYSE	#LENNAR	Yes
CENTERPOINT ENERGY INC	US	1	13:30-19:59	NYSE	#CENTERPOINT	Yes
REGIONS FINANCIAL CORP	US	10	13:30-19:59	NYSE	#RFCORP	Yes
RESMED INC	US	1	13:30-19:59	NYSE	#RESMED	Yes
MAXIM INTEGRATED PRODUCTS	US	1	13:30-19:59	NASDAQ	#MAXIMINTEGRATED	Yes
HEALTHPEAK PROPERTIES INC	US	1	13:30-19:59	NYSE	#HEALTHPEAK	Yes
AMERICAN AIRLINES GROUP INC	US	1	13:30-19:59	NASDAQ	#AMERICANAIRLINES	Yes

NORTON LIFE LOCK	US	1	13:30-19:59	NASDAQ	#NORTONLIFELOCK	Yes
NASDAQ INC	US	1	13:30-19:59	NASDAQ	#NASDAQINC	Yes
COOPER COS INC/THE	US	0.1	13:30-19:59	NYSE	#COOPERINC	Yes
DARDEN RESTAURANTS INC	US	1	13:30-19:59	NYSE	#DARDENREST	Yes
WESTERN DIGITAL CORP	US	1	13:30-19:59	NASDAQ	#WESTERNDIGITAL	Yes
FORTINET INC	US	1	13:30-19:59	NASDAQ	#FORTINET	Yes
EQUIFAX INC	US	1	13:30-19:59	NYSE	#EQUIFAX	Yes
SKYWORKS SOLUTIONS INC	US	1	13:30-19:59	NASDAQ	#SKYWORKS	Yes
ARTHUR J GALLAGHER & CO	US	1	13:30-19:59	NYSE	#AJG	Yes
WYNN RESORTS LTD	US	1	13:30-19:59	NASDAQ	#WYNNRESORTS	Yes
EVERGY INC	US	1	13:30-19:59	NYSE	#EVERGY	Yes
COPART INC	US	1	13:30-19:59	NASDAQ	#COPART	Yes
XYLEM INC	US	1	13:30-19:59	NYSE	#XYLEM	Yes
HOST HOTELS & RESORTS INC	US	10	13:30-19:59	NYSE	#HST	Yes
PRINCIPAL FINANCIAL GROUP	US	1	13:30-19:59	NASDAQ	#PFG	Yes
MGM RESORTS INTERNATIONAL	US	1	13:30-19:59	NYSE	#MGM	Yes
MYLAN NV	US	10	13:30-19:59	NASDAQ	#MYLAN	Yes
CARDINAL HEALTH INC	US	1	13:30-19:59	NYSE	#CARDINALHEALTH	Yes
MARATHON OIL CORP	US	10	13:30-19:59	NYSE	#MARATHONOIL	Yes
CINCINNATI FINANCIAL CORP	US	1	13:30-19:59	NASDAQ	#CINF	Yes
TELEFLEX INC	US	0.1	13:30-19:59	NYSE	#TELEFLEX	Yes
DOVER CORP	US	1	13:30-19:59	NYSE	#DOVERCORP	Yes
INTL FLAVORS & FRAGRANCES	US	1	13:30-19:59	NYSE	#IFF	Yes
HUNTINGTON BANCSHARES INC	US	10	13:30-19:59	NASDAQ	#HBAN	Yes
WELLCARE HEALTH PLANS INC	US	0.1	13:30-19:59	NYSE	#WELLCAREHEALTH	Yes
GARTNER INC	US	1	13:30-19:59	NYSE	#GARTNER	Yes
ROLLINS INC	US	1	13:30-19:59	NYSE	#ROLLINS	Yes
DEVON ENERGY CORP	US	1	13:30-19:59	NYSE	#DEVONENERGY	Yes
SEAGATE TECHNOLOGY	US	1	13:30-19:59	NASDAQ	#SEAGATE	Yes
EXPEDITORS INTL WASH INC	US	1	13:30-19:59	NASDAQ	#EXPD	Yes

CONAGRA BRANDS INC	US	1	13:30-19:59	NYSE	#CONAGRA	Yes
JM SMUCKER CO/THE	US	1	13:30-19:59	NYSE	#JMSMUCKER	Yes
CITRIX SYSTEMS INC	US	1	13:30-19:59	NASDAQ	#CITRIXSYSTEMS	Yes
CENTURYLINK INC	US	10	13:30-19:59	NYSE	#CENTURYLINK	Yes
VORNADO REALTY TRUST	US	1	13:30-19:59	NYSE	#VNO	Yes
MOLSON COORS BREWING CO -B	US	1	13:30-19:59	NYSE	#MOLSONCOORS	Yes
CELANESE CORP	US	1	13:30-19:59	NYSE	#CELANESE	Yes
EXTRA SPACE STORAGE INC	US	1	13:30-19:59	NYSE	#EXTRASPACESTORAGE	Yes
TIFFANY & CO	US	1	13:30-19:59	NYSE	#TIFFANY	Yes
VARIAN MEDICAL SYSTEMS INC	US	1	13:30-19:59	NYSE	#VARIANMEDICAL	Yes
HOLOGIC INC	US	1	13:30-19:59	NASDAQ	#HOLOGIC	Yes
APACHE CORP	US	1	13:30-19:59	NYSE	#APACHE	Yes
UDR INC	US	1	13:30-19:59	NYSE	#UDR	Yes
MARTIN MARIETTA MATERIALS	US	1	13:30-19:59	NYSE	#MLM	Yes
ABIOMED INC	US	0.1	13:30-19:59	NASDAQ	#ABIOMED	Yes
MID-AMERICA APARTMENT COMM	US	1	13:30-19:59	NYSE	#MAA	Yes
LINCOLN NATIONAL CORP	US	1	13:30-19:59	NYSE	#LINCOLN	Yes
ADVANCE AUTO PARTS INC	US	1	13:30-19:59	NYSE	#ADVANCEAUTO	Yes
NOBLE ENERGY INC	US	10	13:30-19:59	NYSE	#NOBLENRG	Yes
NORWEGIAN CRUISE LINE HOLDIN	US	1	13:30-19:59	NYSE	#NORWEGIANCRUISE	Yes
SVB FINANCIAL GROUP	US	1	13:30-19:59	NASDAQ	#SVBFINANCIAL	Yes
QUEST DIAGNOSTICS INC	US	1	13:30-19:59	NYSE	#QUEST	Yes
BROADRIDGE FINANCIAL SOLUTIO	US	1	13:30-19:59	NYSE	#BROADRIDGEFINANCIAL	Yes
C.H. ROBINSON WORLDWIDE INC	US	1	13:30-19:59	NASDAQ	#CHROBINSON	Yes
COMERICA INC	US	1	13:30-19:59	NYSE	#COMERICA	Yes
WABTEC CORP	US	1	13:30-19:59	NYSE	#WABTEC	Yes
AES CORP	US	10	13:30-19:59	NYSE	#AESCORP	Yes
TEXTRON INC	US	1	13:30-19:59	NYSE	#TEXTRON	Yes
VIACOM INC-CLASS B	US	1	13:30-19:59	NASDAQ	#VIACOM	Yes
NRG ENERGY INC	US	1	13:30-19:59	NYSE	#NRGENERGY	Yes

E*TRADE FINANCIAL CORP	US	1	13:30-19:59	NASDAQ	#ETRADE	Yes
TRACTOR SUPPLY COMPANY	US	1	13:30-19:59	NASDAQ	#TRACTORSUPPLY	Yes
KANSAS CITY SOUTHERN	US	1	13:30-19:59	NYSE	#KSU	Yes
ATMOS ENERGY CORP	US	1	13:30-19:59	NYSE	#ATMOSENERGY	Yes
RAYMOND JAMES FINANCIAL INC	US	1	13:30-19:59	NYSE	#RAYMONDJAMES	Yes
CARMAX INC	US	1	13:30-19:59	NYSE	#CARMAX	Yes
MASCO CORP	US	1	13:30-19:59	NYSE	#MASCOCORP	Yes
KOHL'S CORP	US	1	13:30-19:59	NYSE	#KOHL'S	Yes
REGENCY CENTERS CORP	US	1	13:30-19:59	NASDAQ	#REGENCYCENTERS	Yes
CAMPBELL SOUP CO	US	1	13:30-19:59	NYSE	#CAMPBELLSOUP	Yes
DENTSPLY SIRONA INC	US	1	13:30-19:59	NASDAQ	#SIRONA	Yes
DUKE REALTY CORP	US	1	13:30-19:59	NYSE	#DUKEREALTY	Yes
TAKE-TWO INTERACTIVE SOFTWARE	US	1	13:30-19:59	NASDAQ	#TAKETWO	Yes
ALLIANT ENERGY CORP	US	1	13:30-19:59	NASDAQ	#ALLIANT	Yes
CABOT OIL & GAS CORP	US	10	13:30-19:59	NYSE	#CABOTOIL	Yes
EASTMAN CHEMICAL CO	US	1	13:30-19:59	NYSE	#EASTMANCHEM	Yes
JACK HENRY & ASSOCIATES INC	US	1	13:30-19:59	NASDAQ	#JACKHENRY	Yes
LAMB WESTON HOLDINGS INC	US	1	13:30-19:59	NYSE	#LAMBWESTON	Yes
PERKINELMER INC	US	1	13:30-19:59	NYSE	#PERKINELMER	Yes
TECHNIPFMC PLC	US	1	13:30-19:59	NYSE	#TECHNIPFMC	Yes
CBOE GLOBAL MARKETS INC	US	1	13:30-19:59	#N/A	#CBOE	Yes
HASBRO INC	US	1	13:30-19:59	NASDAQ	#HASBRO	Yes
JACOBS ENGINEERING GROUP INC	US	1	13:30-19:59	NYSE	#JACOBSENGINEERING	Yes
PINNACLE WEST CAPITAL	US	1	13:30-19:59	NYSE	#PINNACLEWEST	Yes
MOSAIC CO/THE	US	10	13:30-19:59	NYSE	#MOSAIC	Yes
NISOURCE INC	US	1	13:30-19:59	NYSE	#NISOURCE	Yes
NATIONAL OILWELL VARCO INC	US	10	13:30-19:59	NYSE	#NATIONALOILWELL	Yes
FMC CORP	US	1	13:30-19:59	NYSE	#FMC	Yes
FEDERAL REALTY INVS TRUST	US	1	13:30-19:59	NYSE	#FRT	Yes
IRON MOUNTAIN INC	US	1	13:30-19:59	NYSE	#IRONMOUNTAIN	Yes

RALPH LAUREN CORP	US	1	13:30-19:59	NYSE	#RALPHLAUREN	Yes
WESTROCK CO	US	1	13:30-19:59	NYSE	#WESTROCK	Yes
F5 NETWORKS INC	US	1	13:30-19:59	NASDAQ	#FFIV	Yes
GAP INC/THE	US	10	13:30-19:59	NYSE	#THEGAP	Yes
TAPESTRY INC	US	1	13:30-19:59	NYSE	#TAPESTRY	Yes
PACKAGING CORP OF AMERICA	US	1	13:30-19:59	NYSE	#PKG	Yes
AVERY DENNISON CORP	US	1	13:30-19:59	NYSE	#AVERYDENNISON	Yes
JUNIPER NETWORKS INC	US	1	13:30-19:59	NYSE	#JUNIPER	Yes
UNITED RENTALS INC	US	1	13:30-19:59	NYSE	#UNITEDRENTALS	Yes
PVH CORP	US	1	13:30-19:59	NYSE	#PVH	Yes
ALLIANCE DATA SYSTEMS CORP	US	1	13:30-19:59	NYSE	#ADS	Yes
CF INDUSTRIES HOLDINGS INC	US	1	13:30-19:59	NYSE	#CFINDUSTRIES	Yes
TORCHMARK CORP	US	1	13:30-19:59	NYSE	#TORCHMARK	Yes
MOHAWK INDUSTRIES INC	US	1	13:30-19:59	NYSE	#MOHAWKIND	Yes
HENRY SCHEIN INC	US	1	13:30-19:59	NASDAQ	#HENRYSCHEIN	Yes
LKQ CORP	US	1	13:30-19:59	NASDAQ	#LKQCORP	Yes
QORVO INC	US	1	13:30-19:59	NASDAQ	#QORVO	Yes
DAVITA INC	US	1	13:30-19:59	NYSE	#DAVITA	Yes
SMITH (A.O.) CORP	US	1	13:30-19:59	NYSE	#SMITHCORP	Yes
ARCONIC INC	US	1	13:30-19:59	NYSE	#ARCONIC	Yes
ZIONS BANCORP NA	US	1	13:30-19:59	NASDAQ	#ZIONSBANCORP	Yes
ALLEGION PLC	US	1	13:30-19:59	NYSE	#ALLEGION	Yes
NIELSEN HOLDINGS PLC	US	10	13:30-19:59	NYSE	#NIELSENHOLDINGS	Yes
WHIRLPOOL CORP	US	1	13:30-19:59	NYSE	#WHIRLPOOL	Yes
BORGWARNER INC	US	1	13:30-19:59	NYSE	#BORGWARNER	Yes
COTY INC-CL A	US	10	13:30-19:59	NYSE	#COTYINC	Yes
HOLLYFRONTIER CORP	US	1	13:30-19:59	NYSE	#HOLLUFRONTIER	Yes
WESTERN UNION CO	US	10	13:30-19:59	NYSE	#WESTERNUNION	Yes
INTERPUBLIC GROUP OF COS INC	US	10	13:30-19:59	NYSE	#INTERPUBLICGROUP	Yes
INVESCO LTD	US	10	13:30-19:59	NYSE	#INVESCO	Yes

ROBERT HALF INTL INC	US	1	13:30-19:59	NYSE	#ROBERTHALF	Yes
SL GREEN REALTY CORP	US	1	13:30-19:59	NYSE	#SLGREEN	Yes
PENTAIR PLC	US	1	13:30-19:59	NYSE	#PENTAIR	Yes
KIMCO REALTY CORP	US	10	13:30-19:59	NYSE	#KIMCOREALTY	Yes
PULTEGROUP INC	US	1	13:30-19:59	NYSE	#PULTEGROUP	Yes
MACY'S INC	US	10	13:30-19:59	NYSE	#MACYS	Yes
XEROX CORP	US	1	13:30-19:59	NYSE	#XEROXCORP	Yes
L BRANDS INC	US	1	13:30-19:59	NYSE	#LBRANDS	Yes
UNUM GROUP	US	1	13:30-19:59	NYSE	#UNUMGROUP	Yes
APARTMENT INVT & MGMT CO -A	US	1	13:30-19:59	NYSE	#AIV	Yes
NEWS CORP - CLASS B	US	10	13:30-19:59	NASDAQ	#NEWSCORP	Yes
TRIPADVISOR INC	US	1	13:30-19:59	NASDAQ	#TRIPADVISOR	Yes
ALASKA AIR GROUP INC	US	1	13:30-19:59	NYSE	#ALASKAAIR	Yes
SEALED AIR CORP	US	1	13:30-19:59	NYSE	#SEALEDAIR	Yes
CAPRI HOLDINGS LTD	US	1	13:30-19:59	NYSE	#CAPRIHOLDINGS	Yes
CIMAREX ENERGY CO	US	1	13:30-19:59	NYSE	#CIMAREXENERGY	Yes
FOOT LOCKER INC	US	1	13:30-19:59	NYSE	#FOOTLOCKER	Yes
NORDSTROM INC	US	1	13:30-19:59	NYSE	#NORDSTROM	Yes
FORTUNE BRANDS HOME & SECURI	US	1	13:30-19:59	NYSE	#FORTUNEBRANDS	Yes
FLIR SYSTEMS INC	US	1	13:30-19:59	NASDAQ	#FLIRSYSTEMS	Yes
NEWELL BRANDS INC	US	10	13:30-19:59	NASDAQ	#NEWELLBRANDS	Yes
HANESBRANDS INC	US	10	13:30-19:59	NYSE	#HANESBRANDS	Yes
HELMERICH & PAYNE	US	1	13:30-19:59	NYSE	#HELMERICHPAYNE	Yes
MACERICH CO/THE	US	1	13:30-19:59	NYSE	#MACERICH	Yes
FLOWSERVE CORP	US	1	13:30-19:59	NYSE	#FLOWSERVE	Yes
HARLEY-DAVIDSON INC	US	1	13:30-19:59	NYSE	#HARLEYDAVIDSON	Yes
ASSURANT INC	US	1	13:30-19:59	NYSE	#ASSURANT	Yes
NEKTAR THERAPEUTICS	US	1	13:30-19:59	NASDAQ	#NEKTAR	Yes
JEFFERIES FINANCIAL GROUP IN	US	10	13:30-19:59	NYSE	#JEFFERIESFINANCIAL	Yes
AFFILIATED MANAGERS GROUP	US	1	13:30-19:59	NYSE	#AMG	Yes

LEGGETT & PLATT INC	US	1	13:30-19:59	NYSE	#LEGGETT	Yes
QUANTA SERVICES INC	US	1	13:30-19:59	NYSE	#QUANTA	Yes
FLUOR CORP	US	1	13:30-19:59	NYSE	#FLUOR	Yes
H&R BLOCK INC	US	1	13:30-19:59	NYSE	#HRB	Yes
MATTEL INC	US	10	13:30-19:59	NASDAQ	#MATTEL	Yes
LEVI STRAUSS & CO	US	10	13:30-19:59	NYSE	#LEVI	Yes
SHAKE SHACK INC	US	1	13:30-19:59	NYSE	#SHAKESHACK	Yes
WORLD WRESTLING ENTERTAINMENT INC	US	1	13:30-19:59	NYSE	#WWE	Yes
LYFT INC	US	1	13:30-19:59	NASDAQ	#LYFT	Yes
PINTEREST INC	US	1	13:30-19:59	NYSE	#PINTEREST	Yes
BEYOND MEAT INC	US	1	13:30-19:59	NASDAQ	#BEYONDMEAT	Yes
ZOOM VIDEO COMMUNICATIONS INC	US	1	13:30-19:59	NASDAQ	#ZOOM	Yes
SONY CORP	US	1	13:30-19:59	NYSE	#SONY	Yes
ELECTRONIC ARTS INC	US	1	13:30-19:59	NASDAQ	#EA	Yes

The most up to date information for the following corresponding instrument Spreads, Margin Rates, Overnight Interest (daily) buy /sell as well as other important details can be found within the Trading Platform and on our website within the Trading Info page at the following link: <https://www.avatrade.ca/trading-info/financial-instruments-index>

Bonds									
Instrument	Currency	Min Trade Size	Incrment	Trading hours (GMT)	Quoted months	Exchange	Units	Symbol	Exclusive to MT5
EURO-BUND	EUR	10	0.01	06:00-19:59	Mar, Jun, Sep, Dec	EUREX	Bond	EURO-BUND	No
JAPAN GOVT BOND	JPY	100	0.01	23:45-09:09 & 10:30-17:59	Mar, Jun, Sep, Dec	SGX - Singapore Derivatives Exchange	Bond	JAPAN_BO ND	No

The most up to date information for the following corresponding instrument Spreads, Margin Rates, Overnight Interest (daily) buy /sell as well as other important details can be found within the Trading Platform and on our website within the Trading Info page at the following link: <https://www.avatrade.ca/trading-info/financial-instruments-index>

Options				
Instrument	Lot Size	Trading hours (GMT)	Symbol	Exclusive to MT5
EUR/USD	10,000	24/5	EURUSD	No
GBP/USD	10,000	24/5	GBPUSD	No
USD/JPY	10,000	24/5	USDJPY	No
EUR/JPY	10,000	24/5	EURJPY	No
AUD/USD	10,000	24/5	AUDUSD	No
EUR/CHF	10,000	24/5	EURCHF	No
EUR/GBP	10,000	24/5	EURGBP	No
USD/CAD	10,000	24/5	USDCAD	No
USD/CHF	10,000	24/5	USDCHF	No
NZD/USD	10,000	24/5	NZDUSD	No
AUD/JPY	10,000	24/5	AUDJPY	No

GBP/JPY	10,000	24/5	GBPJPY	No
EUR/CAD	10,000	24/5	EURCAD	No
EUR/AUD	10,000	24/5	EURAUD	No
AUD/CAD	10,000	24/5	AUDCAD	No
AUD/CHF	10,000	24/5	AUDCHF	No
AUD/NZD	10,000	24/5	AUDNZD	No
CAD/CHF	10,000	24/5	CADCHF	No
CAD/JPY	10,000	24/5	CADJPY	No
CHF/JPY	10,000	24/5	CHFJPY	No
EUR/NOK	10,000	24/5	EURNOK	No
EUR/NZD	10,000	24/5	EURNZD	No
EUR/PLN	10,000	24/5	EURPLN	No
EUR/SEK	10,000	24/5	EURSEK	No
GBP/AUD	10,000	24/5	GBPAUD	No
GBP/CAD	10,000	24/5	GBPCAD	No
GBP/CHF	10,000	24/5	GBPCHF	No
GBP/NZD	10,000	24/5	GBPNZD	No
GBP/SEK	10,000	24/5	GBPSEK	No
NZD/CAD	10,000	24/5	NZDCAD	No
NZD/CHF	10,000	24/5	NZDCHF	No
NZD/JPY	10,000	24/5	NZDJPY	No
USD/CNH	10,000	24/5	USDCNH	No
USD/MXN	10,000	24/5	USDMXN	No
USD/NOK	10,000	24/5	USDNOK	No
USD/SEK	10,000	24/5	USDSEK	No
USD/SGD	10,000	24/5	USDSGD	No
USD/ILS	10,000	05:30 - 14:59 (10:29 Fri)	USDILS	No
GBP/NOK	10,000	24/5	GBPNOK	No
NOK/SEK	10,000	24/5	NOKSEK	No
Spot Gold (\$)	10	22:00-20:59	GOLD	No

Spot Silver (\$)	1,000	22:00-20:59	SILVER	No
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All trading instruments offered by Friedberg Direct powered by AvaTrade technology are CFD contracts and not actual cash commodities, stocks, bonds or indices

Explanation of Terms: *from table headings

Instrument – The FX currency pair or underlying asset of the CFD product to be traded.

Country – The country that the equity or bond is based in.

Lot size – The lot size traded on each platform (Note: Ava Trader lot sizes represent the minimum lot size tradable. MT4 represents the standard lot size).

Standard Spread – The difference between the BID & the ASK price quote for each instrument under normal market conditions.

Leverage – The usage of margin to trade on a larger capital base. Leverage can significantly increase your losses as well as your gains.

Margin Per Lot – The required margin to open a single lot of each instrument (Note: It is shown in notional terms).

Increment – The minimum increment of price movement for each instrument.

Overnight Interest Sell/Buy – The overnight interest debited/credited in daily % terms for each instrument.

Trading Time – The time that trading is available for the specified instrument.

Quoted Months – The months of the futures contracts that Friedberg Direct powered AvaTrade technology quotes on its platforms.

Exchange – The exchange of the underlying asset.

Units – The unit that each lot size is quoted in.

Risk Warning:

Trading CFD's on margin carries a high level of risk, and may not be suitable for all investors.

TRADING CHARGES:

All trading performed on this website/platform shall be subject to the following potential charges:

- **SPREADS**
- **OVERNIGHT INTEREST**

- MATURITY ROLLOVER
- CORPORATE ACTIONS
- INACTIVITY FEE

FX (3)

FX Spread Calculation

The **FX** Trading Conditions display the Standard Bid-Ask Spread (Pips) for FX Instruments unless otherwise stated. Standard Spreads are as stated under Normal Market Conditions. Spreads can widen depending on market conditions.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Secondary Currency*

*Secondary Currency is the Second Currency quoted in an FX pair (CUR1/CUR2 USD/JPY, EUR/USD, etc.)

Example

For a 1,000 EUR/USD Trade, with a Spread of 3 pips (0.0003), the calculation is as follows:

$$0.0003 \times 1,000 = \$0.30^*$$

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

FX Margin/Leverage Calculation

All Instruments are traded on Margin allowing you to Leverage your positions. The **FX** Trading Conditions display both Margin & Leverage Amounts; Margin is displayed as a Percentage (%) while Leverage is displayed as a Ratio.

Percentage Margin Formula: Trade Size x Margin (%) = Margin Required in Primary Currency*

Leverage Margin Formula: Trade Size / Leverage = Margin Required in Primary Currency*

*Primary Currency is the First Currency quoted in an FX pair (CUR1/CUR2: USD/JPY, EUR/USD, etc.)

Example

For a 1,000 EUR/USD Trade, with a Margin Requirement of 0.50% or Leverage of 200:1, the calculation are as follows:

Percentage Margin Requirement: **1,000 x 0.005 = €5.00**

Leverage Margin Requirement: **1,000 / 200 = €5.00**

FX Buy/Sell Overnight Interest Calculation

The **FX** Trading Conditions display the Over-Night (O/N) Interest Rates Charged/Paid on a daily basis for holding a position open past our End of Day time. These rates are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

You can use the following formula to calculate your Daily Overnight Interest amount:

Trade Amount x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

*Overnight Interest Charged/Paid will be calculated in the Primary Currency; Primary Currency is the First Currency quoted in an FX pair (CUR1/CUR2: USD/JPY, EUR/USD, etc.)

Example

For a 1,000 EUR/USD Trade, with a Daily Overnight Interest Buy (or Sell) rate of -0.0053% and subject to a charge for 1 day, the calculation is as follows:

$$1,000 \times -0.000053 = -0.053 = \text{-€0.05* rounded}$$

Note: Ava Trade platforms display overnight interest (swaps) in annualised terms.

Commodities Spread Calculation

The **Commodities** Trading Conditions display the Standard Bid-Ask Spread OR 'Spread Over Market' for Commodity Instruments unless otherwise stated. Standard Spreads are as stated under Normal Market Conditions while the 'Spread Over Market' is the Mark-up Friedberg Direct powered by AvaTrade technology adds to the Current Market Spread.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Currency Instrument is denominated in.

Example

For a 10 barrel Crude Oil Trade, with a Spread of 4 pips (\$0.04), the calculation is as follows:

$$0.04 \times 10 = \$0.40^*$$

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

Commodities Margin Calculation

All Instruments are traded on Margin allowing you to Leverage your positions. The Commodities Trading Conditions display Margin Amounts as a Percentage (%).

Percentage Margin Formula: Position Size x Current Price x Margin (%) = Margin Required*

* Margin Required is calculated in the Currency the Instrument is Denominated in.

Example

For a 10 barrel Crude Oil Trade, with a Market Price of \$98.00 and a Margin Requirement of 1.00%, the calculation is as follows:

$$\text{Percentage Margin Requirement: } 10 \times 98 \times 0.01 = \$9.80^*$$

Commodities Buy/Sell Overnight Interest Calculation

The **Commodities** Trading Conditions display the Over-Night (O/N) Interest Rates Charged/Paid on a daily basis for holding a position open past the End of Day time. These are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

You can use the following formula to calculate your Overnight Interest amount:

Trade Size x End of Day Market Price x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

*Overnight Interest Charged/Paid is calculated in the Currency the Instrument is Denominated in.

Example

For a 10 barrel Crude Oil Trade, with an End of Day Market Price of \$50.00 and a Daily Overnight Interest Buy (or Sell) rate of -0.0028%, and subject to a charge for 1 day, the calculation is as follows:

$$10 \times 50.00 \times -0.000028 = -0.014 = \text{-\$0.01* rounded.}$$

Note: Ava Trade platforms display overnight interest (swaps) in annualised terms.

Stock Indices Spread Calculation

The **Stock Indices** Trading Conditions display the ‘Spread Over Market’ for Stock Index Instruments unless otherwise stated. The ‘Spread Over Market’ is the Mark-up Friedberg Direct powered by AvaTrade technology adds to the Current Market Spread.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Currency Instrument is denominated in.

Example 1

For a 1 index S&P500 Trade, with a Spread of 75 Pips (\$0.75), the calculation is as follows:

$$0.75 \times 1 = \$0.75^*$$

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

Stock Indices Margin Calculation

All Instruments are traded on Margin allowing you to Leverage your positions. The **Stock Indices** Trading Conditions display Margin Amounts as a Percentage (%).

Percentage Margin Formula: Position Size x Current Price x Margin (%) = Margin Required*

* Margin Required is calculated in the Currency the Instrument is Denominated in.

Example

For a 1 Index S&P500 Trade, with a Market Price of \$1400 and a Margin Requirement of 0.50%, the calculation is as follows:

$$\text{Percentage Margin Requirement: } 1 \times 1,400 \times 0.005 = \$7.00^*$$

Stock Indices Buy Sell Overnight Interest Calculation

The **Stock Indices** Trading Conditions display the Over-Night (O/N) Interest Rates Charged/Paid on a daily basis for holding a position open past the End of Day time. These are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

You can use the following formula to calculate your Overnight Interest amount:

Trade Size x End of Day Market Price x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

*Overnight Interest Charged/Paid is calculated in the Currency the Instrument is Denominated in.

Example

For a 1 Index S&P500 Trade, with an End of Day Market Price of \$2000 and a Daily Overnight Interest Buy (or Sell) rate of -0.0028%, and subject to a charge for 1 day, the calculation is as follows:

$$1 \times 2,000 \times -0.000028 = -0.056 = -\$0.06^* \text{ rounded.}$$

Note: Ava Trade platforms display overnight interest (swaps) in annualised terms.

Individual Equities Spread Calculation

The **Individual Equities** Trading Conditions display the ‘Spread Over Market’ for Individual Equity Instruments unless otherwise stated. The ‘Spread Over Market’ is the Mark-up Friedberg Direct powered by AvaTrade technology adds to the Current Market Spread.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Currency Instrument is denominated in.

Example

For a trade of 1 APPLE share, with a Spread of 12 pips (0.12), the calculation is as follows:

$$0.12 \times 1 = \$0.12^*$$

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

Individual Equities Margin Calculation

All Instruments are traded on Margin allowing you to Leverage your positions. The **Individual Equities** Trading Conditions display Margin Amounts as a Percentage (%).

Percentage Margin Formula: Position Size x Current Price x Margin (%) = Margin Required*

**Margin Required is calculated in the Currency the Instrument is Denominated in.*

AVA may double margin requirements on specific stocks prior to earnings release. This is a preventative measure to avoid clients with large exposures in the said equity, falling into negative equity.

Example

For a trade of 1 APPLE share with a Market Price of \$500 and a Margin Requirement of 5.00%, the calculation is as follows:

Percentage Margin Requirement: $1 \times 500 \times 0.05 = \25.00^*

Individual Equities Buy/Sell Overnight Interest Calculation

The **Individual Equities** Trading Conditions display the Over-Night Interest Rates Charged/Paid on a daily basis for holding a position open past the End of Day time. These are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

You can use the following formula to calculate your Overnight Interest amount:

Trade Size x End of Day Market Price x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

* Overnight Interest Charged/Paid is calculated in the Currency the Instrument is Denominated in.

Example

For a trade of 1 APPLE share, with an End of Day Market Price of \$140 and a Daily Overnight Interest Buy (or Sell) rate of -0.0083%, and subject to a charge for 1 day, the calculation is as follows:

$$1 \times 140 \times -0.000083 = -0.012 = -\$0.01^* \text{ rounded.}$$

Note: Ava Trade platforms display overnight interest (swaps) in annualised terms.

Individual Equities Corporate Actions & Calculation

Individual Equities may at some stage partake in a Corporate Action; these can include Dividends, Rights Issues, Stock/Reverse Splits, Mergers, Acquisitions, Takeovers etc.

Dividends: For any individual equity on the Friedberg Direct powered by AvaTrade technology trading platforms that declares a dividend, Friedberg Direct powered by AvaTrade technology will make an Adjustment to every account that holds said equity, at the end of the cum-dividend day. This will be one day before the ex-dividend day.

The adjustment made to accounts will be:

1. **Long Positions** will be Credited with 90% of the Gross dividend.

$$\text{(Amount of Shares x Gross Dividend) x 0.90}$$

2. **Short Positions** will be Debited with 100% of the Gross dividend.

$$\text{(Amount of Shares x Gross Dividend) x -1}$$

Note: There are no other costs to clients in relation to Dividends.

Example

For a trade of 1 APPLE share, with a GROSS Div. of \$1.00, the calculation is as follows:

Long Position: $(1 \times 1.00) \times 0.90 = 1.00 \times 0.90 = +\0.90

Short Position: $(1 \times 1.00) \times -1 = 1.00 \times -1 = -\1.00

For ALL other Corporate Actions: Rights Issue, Stock/Reverse Splits, Mergers, Acquisitions, Takeovers etc, and as these actions can happen suddenly and without prior knowledge, Open Positions and Orders will be Closed/Removed at the end of the cum-action day at market price on the particular equity.

Note: There are no costs to clients in relation to these other Corporate Actions.

Bonds Spread Calculation

The Bonds Trading Conditions display the 'Spread Over Market' for Bond Instruments unless otherwise stated. The 'Spread Over Market' is the Mark-up Friedberg Direct adds to the Current Market Spread.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Currency Instrument is denominated in.

Example

For a trade of 10 Bonds on the 5 Year US T-NOTE, with a Spread of 5 pips (0.05), the calculation is as follows:

$$0.05 \times 10 = \$0.50^*$$

Friedberg Direct is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct does not charge commissions on any trade.

Bonds Margin Calculation

All Instruments are traded on Margin allowing you to Leverage your positions. The Bonds Trading Conditions display Margin Amounts as a Percentage (%).

Percentage Margin Formula: Position Size x Current Price x Margin (%) = Margin Required*

* Margin Required is calculated in the Currency the Instrument is Denominated in.

Example

For a trade of 10 Bonds on the 5 Year US T-NOTE, with a Market Price of \$124.50 and a Margin Requirement of 4.00%, the calculation is as follows:

$$\text{Percentage Margin Requirement: } 10 \times 124.50 \times 0.04 = \$50 \text{ USD/ } \$65 \text{ CAD}^*$$

Bonds Buy/Sell Overnight Interest Calculation

The Bonds Trading Conditions display the Over-Night (O/N) Interest Rates Charged/Paid on a daily basis for holding a position open past the End of Day time. These are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

You can use the following formula to calculate your Overnight Interest amount:

Trade Size x End of Day Market Price x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

*Overnight Interest Charged/Paid is calculated in the Currency the Instrument is Denominated in.

Example

For a 10 Bond 5 Year US T-NOTES Trade, with an End of Day Market Price of \$150 and a Daily Overnight Interest Buy (or Sell) rate of -0.0028%, and subject to a charge for 1 day, the calculation is as follows:

$10 \times 150 \times -0.000028 = -0.042 = -\0.04^* rounded.

Note: FD platforms display overnight interest (swaps) in annualized terms.

Fx Spread Calculation

The **AVAOPTIONS** Trading Conditions display the Typical Bid-Ask Spreads (Pips) for Instruments (Spot Spread) as well as for Options on the Instruments (Option Spread). Standard Spreads are as stated under Normal Market Conditions. Option spreads are based on 1-month at-the-money options.

Spread Cost Formula: Spread x Trade Size = Spread Charge in Secondary Currency*

*Secondary Currency is the Second Currency quoted in an FX pair (CUR1/CUR2: USD/JPY, EUR/USD, etc.)

Example

For a 10,000 EUR/USD Spot Trade, with a Spread of 2.1 pips (0.00021), the calculation is as follows:

$$0.00021 \times 10,000 = \$2.10^*$$

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated. Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

Option Premium Calculation

The AVAOPTIONS Trading Platform allows traders to buy and sell options on Instruments, typically FX pairs, as shown in the Trading Conditions.

When purchasing an option, the cost of the option (also called the Option Premium) is deducted from the account cash balance, using free available cash. Free available cash is the cash balance that is in excess of the Required Margin.

When selling an option, the cash proceeds of the sale are immediately credited to the account cash balance. If writing an option (selling an option short), any required margin must be met from free available cash.

If the account does not have sufficient free available cash to meet the required margin, the trade will not be executed.

Option Premium is quoted in Price of the Second Currency.

Option Premium Formula: Price x Trade Size = Cost in Secondary Currency*

*Secondary Currency is the Second Currency quoted in an FX pair (CUR1/CUR2: USD/JPY, EUR/USD, etc.)

Example

For a 10,000 EUR/USD CALL OPTION offered at 0.00560, the calculation is as follows:

0.00560 X 10,000 = USD 56.00

If the Account Currency is not the same as the Second Currency, the Option Premium will be immediately converted into the Account Currency at the prevailing spot rate, which can be found in the Open Positions window.

Friedberg Direct powered by AvaTrade technology is compensated through the Bid-Ask spread, except when otherwise stated.

Friedberg Direct powered by AvaTrade technology does not charge commissions on any trade.

Avaoptions Margin Calculation

The AvaOptions platform calculates required margin according to the riskiness of the portfolio, applying standardized stresses to each currency pair using a system known as SPAN, for Standardized Portfolio Analysis.

We divide customer portfolios by currency pair, and evaluate portfolio values for each currency pair under 16 scenarios:

	Underlying Price	Volatility	% of Risk
1	Down Margin%	Up	100%
2	Down Margin%	Down	100%
3	Down 2/3 Margin%	Up	100%
4	Down 2/3 Margin%	Down	100%
5	Down 1/3 Margin%	Up	100%
6	Down 1/3 Margin%	Down	100%
7	Unchanged	Up	100%
8	Unchanged	Down	100%
9	Up 1/3 Margin%	Up	100%
10	Up 1/3 Margin%	Down	100%

11	Up 2/3 Margin%	Up	100%
12	Up 2/3 Margin%	Down	100%
13	Up Margin%	Up	100%
14	Up Margin%	Down	100%
15	Up 2 * Margin%	Unchanged	35%
16	Down 2 * Margin%	Unchanged	35%

Scenarios 1-14 evaluate the portfolio with volatilities higher and lower at seven spot levels. For a currency pair with a spot margin requirement of 1%, the spot levels are -1%, -.67%, -.33%, Unchanged, +.33%, +67%, and +1%.

Scenarios 15 and 16 move spot up and down by double the margin requirement (e.g. 2%), and take 35% of the observed portfolio change as risk. These scenarios are designed to capture risk of options that are further out of the money, without impacting margin for spot positions.

The greatest portfolio loss observed in these 16 scenarios is taken as margin for that currency pair. The sum of margin for each currency pair is the total Required Margin.

One may note that for a portfolio of spot positions, the margin under SPAN is equal to the Margin% times the total spot position, identical to most spot trading platforms, and neither implied volatilities nor scenarios 15 and 16 have any impact.

Each option's implied volatility is moved up and down according to the following formula:

$$\text{Vol Shift} = \text{Volatility Factor} \times \text{Max}(\text{Implied Vol}, \text{Minimum Vol})$$

Implied Vol = the current mid-market implied volatility of the option

Minimum Vol = 10%

Table of Volatility Factors:

Days to Expiration	G10	EM
7	31%	41%
14	22%	29%
30	15%	20%
90	9%	12%

For example, a 2 week G10 option implied volatility is shifted +/- 22%, with a minimum move of 2.2 vol. For a 6 month option, vol is bumped +/- 9%, with minimum move of 0.9 vol.

The Volatility Factor normalizes volatility of volatility, as a 1 week option’s implied volatility can move more drastically than can that of a 1 year option. Its math is as follows:

Volatility Factor = $\text{SQRT}(30/\text{ADTE}) \times \text{Reserve}$ ADTE = Days to Expiration, with minimum of 7 and maximum of 90. Reserve = 15% for G10 currency pairs, and 20% for pairs including one or more emerging market currencies.

Fx Buy/sell Overnight Interest Calculation

The **AVAOPTIONS** Trading Conditions display the Over-Night (O/N) Interest Rates Charged/Paid on a daily basis for holding a spot position or other instrument open past our End of Day time. These rates are displayed in the “Overnight Interest – Buy” and “Overnight Interest – Sell” columns. End of Day is 22:00 GMT except during Daylight Savings when it changes to 21:00 GMT.

Overnight Interest is not charged for any options positions.

You can use the following formula to calculate your Daily Overnight Interest amount using the published rates:

Trade Amount x Daily Overnight Interest = Daily Overnight Interest Charged/Paid*

*Interest Charged/Paid will be calculated in the Primary Currency; Primary Currency is the First Currency quoted in an FX pair (CUR1/CUR2: USD/JPY, EUR/USD, etc.)

Example

For a 10,000 EUR/USD Trade, with a Daily Overnight Interest Buy (or Sell) rate of -0.0053% and subject to a charge for 1 day, the calculation is as follows:

$$10,000 \times -0.000053 = -\text{€}0.53$$

Note: Ava Trade platforms display overnight interest (swaps) in annualised terms.

Inactivity Fee

Customer acknowledges that the Customer's trading account may be subject to an inactivity fees unless prohibited by law. After 3 consecutive months of non-use ("Inactivity Period"), and every successive Inactivity Period, an inactivity fee will be deducted from the value of the Customer's trading account. This fee is outlined below and subject to client relevant currency based account:

Inactivity Fee:

- USD Account: \$50
- CAD Account: \$50

Applicable fees subject to change periodically.

Administration fee

Customer acknowledges that the Customer's trading account may be subject to an annual administration fee unless prohibited by law. After 12 consecutive months of non-use ("Annual Inactivity Period"), an administration fee will be deducted from the value of the Customer's trading account. This fee is outlined below and subject to client relevant currency based account: This is to offset the cost incurred in making the service available, even though it may not be used.

Administration Fee:

- USD Account: \$100
- CAD Account: \$100

Applicable fees subject to change periodically.

Trading Conditions:

TRADING CONDITIONS:

Spreads:

- All Spreads are Over Market.
- FX Standard Spreads are as stated under Normal Market Conditions.

- FX Pairs may not be tradable shortly before and after End-of-Day (22:00 GMT or 21:00 GMT during US DST) – due to liquidity constraints during the Interbank settlement period
- Gold & Silver spreads may be wider than stated from approx 22:00 – 02:00 GMT.
- Crude & Brent Oil spreads may be wider than stated from approx 22:00 – 05:00 GMT.
- Crude Oil & Natural Gas spreads may be wider during Weekly Inventories.
- PIP FX Pairs = 0.0001; 1 PIP JPY FX Pairs = 0.01.

Overnight Interest Rates:

- All Overnight Interest Rates are indicative and subject to change.
- MT4 FX, Gold & Silver Positions: Saturday/Sunday Overnight Interest will be Debited/Credited on the Wednesday before.
- MT4 Non-FX (excl. Gold & Silver) Positions: Saturday/Sunday Overnight Interest will be Debited/Credited on the Friday before.

Margin:

- Margin requirements can increase based on position size.
- Margin requirements are dependent on the asset the trader wishes to trade and vary given the base currency of your account.
- All margin requirements and rates are subject to change at any time and without any warning
- It is the client's obligation to monitor their margin requirements and ensure that they have sufficient funds to maintain their positions
- These margin requirements and rates are established by the Investment Industry Regulatory Organization of Canada (IIROC). These requirements and rates are periodically updated by IIROC and are subject to change at any time without notice and in line with market conditions.

- Clients should always endeavour to maintain sufficient excess funds in their account to avoid having positions liquidated due to sudden margin rate increases

Maximum Trades/Orders:

- MetaTrader Minimum Nominal Trade Size = 0.01
- Trading Hours may change due to Daylight Savings Time.

Max Positions Limits

- Palladium = \$400K Max*

* Maximum Position Limits may be reduced during periods of volatility.

Friedberg Direct reserves the right to cancel any excess trades or exposures that exceed the outlined threshold limits, all cancelled trades will be closed at their opening rates.

Friedberg Direct reserves the right to modify its threshold limits, affected clients will be notified in advance and may be required to reduce their exposure.

Your access to and use of the website and/or platform constitutes your acceptance of these Trading Conditions and any other legal notices and statements contained on same. Friedberg Direct may modify these Trading Conditions at any time and without prior notice. Your continued access to and use of the website and/or platform constitutes your acceptance of these Trading Conditions as modified.