

Venom Trading - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2022

October 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
99.46	0.00	78.99	20.93	0.09

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq Stock Market (XNAS)	25.13		13.15	70.01	100.00	0		-167	-7.5824	2,621	28.0984	0	0.0000
IBKR ATS (IATS)	23.94		30.15	0.63	0.00	0		0	0.0000	0	0.0000	0	
CBOE EDGX Exchange (EDGX)	7.22		6.15	11.29	0.00	0		-66	-13.5172	20	25.1831	0	
NYSE Arca (ARCX)	5.95		7.48	0.21	0.00	0		-242	-27.3457	0	25.0000	0	
MEMX LLC (MEMX)	4.72		5.98	0.00	0.00	0		-62	-17.1601	0		0	
New York Stock Exchange (XNYS)	4.46		2.10	13.38	0.00	0		14	2.9755	22	11.7335	0	
CBOE BZX Exchange (BATS)	3.48		4.40	0.00	0.00	0		-54	-11.6980	0		0	
IEX (IEXD)	3.06		3.88	0.00	0.00	0		-23	-7.9800	0		0	
XTX Execution Services LLC (XTXE)	2.62		3.16	0.63	0.00	0		0	0.0000	0	0.0000	0	
CBOE EDGA Exchange (EDGA)	2.23		2.82	0.00	0.00	0		-51	-16.5718	0		0	
UBS ATS (UBSA)	2.08		2.63	0.00	0.00	0		0	0.0000	0		0	
HRT Execution Services LLC (HRTX)	2.06		2.60	0.00	0.00	0		0	0.0000	0		0	
Virtu Americas LLC "PRO" (VIRT)	2.03		2.57	0.00	0.00	0		0	0.0000	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
MIAX PEARL Equities (EPRL)	1.71		2.16	0.00	0.00	0		54	17.0636	0		0	
SG Americas Securities, LLC (SGAS)	1.66		2.10	0.00	0.00	0		0	0.0000	0		0	
Citadel Securities "PRO" (CDRG)	1.33		1.69	0.00	0.00	0		0	0.0000	0		0	
CBOE BYX Exchange (BATY)	1.18		0.47	3.87	0.00	0		-6	-10.0348	0		0	
CODA (CODA)	0.96		1.22	0.00	0.00	0		0	0.0000	0		0	
NYSE CHX (XCHI)	0.90		1.14	0.00	0.00	0		-6	-10.0000	0		0	
Nasdaq PSX (XPSX)	0.83		1.05	0.00	0.00	0		21	10.4820	0		0	
Jane Street Capital LLC "PRO" (JSJX)	0.61		0.78	0.00	0.00	0		0	0.0000	0		0	
Crossfinder (CAES)	0.50		0.64	0.00	0.00	0		0	10.0000	0		0	
The Barclays ATS (LATS)	0.50		0.64	0.00	0.00	0		0		0		0	
Nasdaq BX (XBOS)	0.31		0.39	0.00	0.00	0		-0	-1.5804	0		0	
NYSE American (XASE)	0.31		0.39	0.00	0.00	0		-4	-25.1429	0		0	
Level ATS (EBXL)	0.13		0.17	0.00	0.00	0		0	0.0000	0		0	
NYSE National (XCIS)	0.09		0.11	0.00	0.00	0		0	0.0000	0		0	

Material Aspects:

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IBKR ATS (IATS):

IBKR operates the IBKR ATS in accordance with SEC Regulation ATS. IBKR uses the IBKR ATS to execute IBKR client orders against each other or against one or more professional liquidity providers who quote into the IBKR ATS. Order executions on the IBKR ATS are faster, eliminate exchange fees, and may offer Price Improvement. Statistical information regarding the quality of executions for orders effected through the IBKR ATS (e.g., average execution speed, percentage of orders receiving Price Improvement, etc.) is available on the IBKR website at: <https://ibkr.com/regulatoryreports>.

CBOE EDGX Exchange (EDGX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca (ARCX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MEMX LLC (MEMX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

New York Stock Exchange (XNYS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

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CBOE BZX Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IEX (IEXD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGA Exchange (EDGA):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL Equities (EPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BYX Exchange (BATY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE CHX (XCHI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PSX (XPSX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX (XBOS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American (XASE):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE National (XCIS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

October 2022

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
97.26	0.00	71.39	28.61	0.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(USD)
Nasdaq Stock Market (XNAS)	20.52		13.60	37.79		0		-1,260	-26.2410	4,743	27.4952	0
CBOE EDGX Exchange (EDGX)	14.32		6.20	34.57		0		-511	-21.6330	373	23.8779	0

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
IBKR ATS (IATS)	10.84		15.04	0.35		0		0	0.0000	0	0.0000	0	
NYSE Arca (ARCX)	9.69		10.32	8.13		0		-1,265	-22.9282	4,927	29.4855	0	
New York Stock Exchange (XNYS)	6.98		4.15	14.05		0		-451	-26.1936	2,555	19.5685	0	
MEMX LLC (MEMX)	5.35		7.49	0.03		0		-462	-29.6189	0		0	
CBOE BZX Exchange (BATS)	3.94		5.49	0.08		0		-326	-29.7587	0	16.0000	0	
IEX (IEXD)	3.03		4.23	0.03		0		-22	-7.3021	0		0	
HRT Execution Services LLC (HRTX)	2.79		3.90	0.00		0		0	0.0000	0		0	
MIAX PEARL Equities (EPRL)	2.43		2.67	1.81		0		-138	-28.7237	47	29.0000	0	
UBS ATS (UBSA)	2.38		3.34	0.00		0		0	0.0000	0		0	
Virtu Americas LLC "PRO" (VIRT)	2.33		3.26	0.00		0		0	0.0000	0		0	
Citadel Securities "PRO" (CDRG)	2.14		3.00	0.00		0		0	0.0000	0		0	
CBOE EDGA Exchange (EDGA)	1.99		2.78	0.00		0		53	16.6360	0		0	
CODA (CODA)	1.81		2.53	0.00		0		0	0.0000	0		0	
CBOE BYX Exchange (BATY)	1.68		1.27	2.69		0		2	0.6080	0		0	
Crossfinder (CAES)	1.40		1.96	0.00		0		2	10.0000	0		0	
The Barclays ATS (LATS)	1.38		1.93	0.00		0		0	0.0000	0		0	
Nasdaq PSX (XPSX)	1.34		1.87	0.03		0		-45	-17.8015	3	20.0000	0	
Jane Street Capital LLC "PRO" (JSJX)	1.07		1.49	0.00		0		0	0.0000	0		0	
XTX Execution Services LLC (XTXE)	1.04		1.36	0.23		0		0	0.0000	0	0.0000	0	
NYSE American (XASE)	0.48		0.59	0.20		0		-44	-29.8637	0		0	
NYSE CHX (XCHI)	0.40		0.55	0.00		0		-8	-10.0000	0		0	
Nasdaq BX (XBOS)	0.24		0.34	0.00		0		3	4.6665	0		0	
NYSE National (XCIS)	0.22		0.30	0.00		0		0	0.0000	0		0	
Level ATS (EBXL)	0.20		0.28	0.00		0		0	0.0000	0		0	
NASDAQ Retail Liquidity	0.02		0.03	0.00		0		0	21.0000	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Program (NASD)													
Virtu Americas LLC "LITE" (NITE)	0.01		0.01	0.03		0		1	12.0000	3	48.0000	0	
Citadel Securities "LITE" (CDED)	0.01		0.01	0.00		0		5	12.0000	0		0	

Material Aspects:

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

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NYSE Arca (ARCX):

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New York Stock Exchange (XNYS):

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MEMX LLC (MEMX):

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CBOE BZX Exchange (BATS):

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MIAX PEARL Equities (EPRL):

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CBOE EDGA Exchange (EDGA):

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CBOE BYX Exchange (BATY):

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Nasdaq PSX (XPSX):

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NYSE American (XASE):

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Nasdaq BX (XBOS):

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NYSE National (XCIS):

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NASDAQ Retail Liquidity Program (NASD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Virtu Americas LLC "LITE" (NITE):

IBKR-LITE clients are charged zero commission for NMS stock and ETF orders, except for certain order types, orders that execute at the open or close, and orders that execute outside of regular trading hours ("Outside-RTH"), if the volume of such On Open and On Close orders or Outside-RTH in any given month exceeds a certain percentage of the account's aggregate US stock trading volume in that same month. IBKR-LITE orders are normally routed to select over-the-counter market makers for handling. IBKR's agreements with the market makers provide Interactive Brokers payment for order flow from each market maker (subject to certain exclusions detailed below). For trades executed with respect to a marketable customer order, each market maker pays IBKR a rebate of 12% of the spread between the National Best Bid and Offer of the routed stock at the time the order was received by the market maker. For trades executed with respect to a non-marketable customer order, each market maker pays IBKR \$0.27 per 100 shares for execution prices greater than or equal to \$1.00 and \$0.0027 per 100 shares for execution prices less than \$1.00. A potential effect of these payments is reduced price improvement on executions received by IBKR-LITE clients, in proportion to the payment received by IBKR. For both marketable and non-marketable orders, IBKR receives no payments for executions outside of regular trading hours and executions resulting from On Open and On Close orders.

Citadel Securities "LITE" (CDED):

IBKR-LITE clients are charged zero commission for NMS stock and ETF orders, except for certain order types, orders that execute at the open or close, and orders that execute outside of regular trading hours ("Outside-RTH"), if the volume of such On Open and On Close orders or Outside-RTH in any given month exceeds a certain percentage of the account's aggregate US stock trading volume in that same month. IBKR-LITE orders are normally routed to select over-the-counter market makers for handling. IBKR's agreements with the market makers provide Interactive Brokers payment for order flow from each market maker (subject to certain exclusions detailed below). For trades executed with respect to a marketable customer order, each market maker pays IBKR a rebate of 12% of the spread between the National Best Bid and Offer of the routed stock at the time the order was received by the market maker. For trades executed with respect to a non-marketable customer order, each market maker pays IBKR \$0.27 per 100 shares for execution prices greater than or equal to \$1.00 and \$0.0027 per 100 shares for execution prices less than \$1.00. A potential effect of these payments is reduced price improvement on executions received by IBKR-LITE clients, in proportion to the payment received by IBKR. For both marketable and non-marketable orders, IBKR receives no payments for executions outside of regular trading hours and executions resulting from On Open and On Close orders.

October 2022

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	0.05	24.44	73.99	1.52

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq Options Market (XNDQ)	15.50	0.00	2.31	20.19	0.00	0		-26	-48.5926	321	85.4827	0	
Chicago Board Options Exchange (XCBO)	14.52	0.00	8.85	14.91	87.00	0		-248	-32.4607	-13	-3.6903	-45	-61.0608
NYSE Arca Options (ARCO)	14.02	0.00	6.42	16.81	1.00	0		-102	-49.1731	502	64.0498	0	
CBOE C2 Exchange (C2OX)	13.14	0.00	1.50	17.14	6.00	0		-55	-42.1756	352	42.0000	2	35.0000

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Cboe EDGX Options Exchange (EDGO)	12.28	0.00	6.05	14.50	5.00	0		60	27.9403	197	21.0000	5	49.0000
Nasdaq MRX (MCRY)	11.38	0.00	46.26	0.10	0.00	0		565	30.4303	2	27.2949	0	
Nasdaq GEMX (GMNI)	7.70	0.00	1.12	10.03	0.00	0		-3	-9.0703	112	40.4348	0	
MIAX Emerald Exchange (EMLD)	3.43	0.00	0.87	4.33	1.00	0		-2	-19.0000	49	43.0000	0	
Nasdaq BX Options (XBKO)	1.54	0.00	6.30	0.00	0.00	0		-78	-35.8571	0		0	
BOX Exchange (XBOX)	1.45	0.00	5.92	0.00	0.00	0		134	51.9209	0		0	
Nasdaq PHLX (XPHL)	1.19	0.00	4.11	0.25	0.00	0		60	27.0545	0	0.0000	0	
Nasdaq ISE (XISX)	1.16	100.00	3.87	0.23	0.00	0		7	5.1902	2	86.0000	0	
Cboe BZX Options Exchange (BATS)	1.05	0.00	2.00	0.76	0.00	0		-38	-50.0000	1	85.0000	0	
NYSE American Options (AMXO)	0.70	0.00	0.75	0.70	0.00	0		5	13.6410	0	0.0000	0	
MIAX PEARL (MPRL)	0.59	0.00	2.43	0.00	0.00	0		-34	-45.1974	0		0	
MIAX Options Exchange (XMIO)	0.35	0.00	1.25	0.06	0.00	0		14	43.0625	0	0.0000	0	

Material Aspects:

Nasdaq Options Market (XNDQ):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Chicago Board Options Exchange (XCBO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca Options (ARCO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE C2 Exchange (C2OX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe EDGX Options Exchange (EDGO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq MRX (MCRY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq GEMX (GMNI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Emerald Exchange (EMLD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX Options (XBXO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

BOX Exchange (XBOX):

An affiliate under common control with IBKR has a substantial, minority investment in the Boston Options Exchange Group LLC, which operates the Boston Options Exchange. To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PHLX (XPHL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq ISE (XISX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe BZX Options Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American Options (AMXO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL (MPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Options Exchange (XMIO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

November 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
99.70	0.00	80.83	19.14	0.03

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
IBKR ATS (IATS)	19.33		23.64	1.12	0.00	0		0	0.0000	0	0.0000	0	
Nasdaq Stock Market (XNAS)	15.68		12.06	31.01	0.00	0		30	0.8571	3,493	27.3015	0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
New York Stock Exchange (XNYS)	11.13		2.43	47.72	100.00	0		-67	-24.6594	432	19.7558	0	
CBOE EDGX Exchange (EDGX)	8.73		7.09	15.66	0.00	0		-69	-5.2968	201	20.1105	0	
MEMX LLC (MEMX)	5.59		6.92	0.00	0.00	0		-155	-29.9035	0		0	
NYSE Arca (ARCX)	5.56		6.85	0.15	0.00	0		-220	-12.5453	4	19.9680	0	
CBOE BZX Exchange (BATS)	4.20		5.20	0.00	0.00	0		-107	-19.8256	0		0	
IEX (IEXG)	3.74		4.56	0.30	0.00	0		-45	-8.3295	0		0	
XTX Execution Services LLC (XTXE)	3.27		3.87	0.75	0.00	0		0	0.0000	0	0.0000	0	
HRT Execution Services LLC (HRTX)	3.18		3.94	0.00	0.00	0		0	0.0000	0		0	
Nasdaq PSX (XPSX)	2.31		2.86	0.00	0.00	0		-25	-24.9678	0		0	
CBOE EDGA Exchange (EDGA)	2.28		2.82	0.00	0.00	0		-51	-14.0657	0		0	
MIAX PEARL Equities (EPRL)	2.25		2.78	0.00	0.00	0		-36	-18.7342	0		0	
Virtu Americas LLC "PRO" (VIRT)	2.16		2.68	0.00	0.00	0		0	0.0000	0		0	
UBS ATS (UBSA)	2.01		2.48	0.00	0.00	0		0	0.0000	0		0	
SG Americas Securities, LLC (SGAS)	1.96		2.43	0.00	0.00	0		0	0.0000	0		0	
Jane Street Capital LLC "PRO" (JSJX)	1.03		1.28	0.00	0.00	0		0	0.0000	0		0	
CBOE BYX Exchange (BATY)	1.03		0.50	3.30	0.00	0		1	2.0000	0		0	
CODA (CODA)	0.90		1.12	0.00	0.00	0		0	0.0000	0		0	
Citadel Securities "PRO" (CDRG)	0.89		1.10	0.00	0.00	0		0	0.0000	0		0	
NYSE CHX (XCHI)	0.83		1.03	0.00	0.00	0		-23	-10.0000	0		0	
Crossfinder (CAES)	0.66		0.82	0.00	0.00	0		2	10.0000	0		0	
The Barclays ATS (LATS)	0.52		0.64	0.00	0.00	0		0	0.0000	0		0	
Nasdaq BX (XBOS)	0.29		0.35	0.00	0.00	0		-27	-26.4168	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Level ATS (EBXL)	0.27		0.34	0.00	0.00	0		0	0.0000	0		0	
NYSE American (XASE)	0.11		0.14	0.00	0.00	0		-5	-30.0000	0		0	
NYSE National (XCIS)	0.07		0.09	0.00	0.00	0		-15	-25.1704	0		0	

Material Aspects:

IBKR ATS (IATS):

IBKR operates the IBKR ATS in accordance with SEC Regulation ATS. IBKR uses the IBKR ATS to execute IBKR client orders against each other or against one or more professional liquidity providers who quote into the IBKR ATS. Order executions on the IBKR ATS are faster, eliminate exchange fees, and may offer Price Improvement. Statistical information regarding the quality of executions for orders effected through the IBKR ATS (e.g., average execution speed, percentage of orders receiving Price Improvement, etc.) is available on the IBKR website at: <https://ibkr.com/regulatoryreports>.

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

New York Stock Exchange (XNYS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGX Exchange (EDGX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MEMX LLC (MEMX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca (ARCX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BZX Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PSX (XPSX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGA Exchange (EDGA):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL Equities (EPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BYX Exchange (BATY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE CHX (XCHI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX (XBOS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American (XASE):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to

clients.

NYSE National (XCIS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

November 2022

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
97.67	0.00	67.91	32.06	0.03

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq Stock Market (XNAS)	18.56		13.25	29.74	100.00	0		-2,123	-20.3836	6,845	26.5381	0	
CBOE EDGX Exchange (EDGX)	17.86		6.58	41.75	0.00	0		-1,048	-19.5980	1,501	14.4662	0	
IBKR ATS (IATS)	11.21		16.25	0.55	0.00	0		0	0.0000	0	0.0000	0	
NYSE Arca (ARCX)	8.82		10.09	6.15	0.00	0		-2,109	-26.4591	7,293	31.1107	0	
New York Stock Exchange (XNYS)	8.07		4.54	15.55	0.00	0		-749	-19.1075	4,311	19.4659	0	
MEMX LLC (MEMX)	4.08		5.93	0.18	0.00	0		-613	-29.4928	5	20.0000	0	
CBOE BZX Exchange (BATS)	3.65		5.34	0.06	0.00	0		-624	-27.9187	14	16.0000	0	
HRT Execution Services LLC (HRTX)	3.38		4.98	0.00	0.00	0		0	0.0000	0		0	
IEX (IEXD)	3.08		4.44	0.18	0.00	0		-105	-8.2054	-1	-9.0000	0	
UBS ATS (UBSA)	2.33		3.43	0.01	0.00	0		0	0.0000	0		0	
MIAx PEARL Equities (EPRL)	2.31		2.44	2.04	0.00	0		-292	-26.1875	3	29.0000	0	
CBOE EDGA Exchange (EDGA)	2.04		3.00	0.01	0.00	0		155	15.1906	-0	-10.0000	0	
CBOE BYX Exchange (BATY)	1.95		1.39	3.15	0.00	0		8	1.1251	0	2.0000	0	
Citadel Securities "PRO" (CDRG)	1.93		2.83	0.01	0.00	0		0	0.0000	0		0	
Virtu Americas LLC "PRO" (VIRT)	1.77		2.61	0.00	0.00	0		0	0.0000	0		0	
CODA (CODA)	1.67		2.46	0.00	0.00	0		0	0.0000	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
The Barclays ATS (LATS)	1.40		2.05	0.01	0.00	0		0	0.0000	0		0	
Crossfinder (CAES)	1.30		1.92	0.00	0.00	0		1	10.0000	0		0	
XTX Execution Services LLC (XTXE)	1.23		1.62	0.39	0.00	0		0	0.0000	0	0.0000	0	
Jane Street Capital LLC "PRO" (JSJX)	0.91		1.34	0.00	0.00	0		0	0.0000	0		0	
Nasdaq PSX (XPSX)	0.83		1.22	0.01	0.00	0		-74	-28.6109	0		0	
NYSE CHX (XCHI)	0.63		0.93	0.00	0.00	0		-24	-10.0000	0		0	
NYSE American (XASE)	0.35		0.43	0.18	0.00	0		-42	-29.0857	0		0	
Nasdaq BX (XBOS)	0.26		0.39	0.00	0.00	0		-11	-7.6041	0		0	
NYSE National (XCIS)	0.23		0.34	0.00	0.00	0		-0	-0.2283	0		0	
Level ATS (EBXL)	0.14		0.20	0.00	0.00	0		0	0.0000	0		0	
NASDAQ Retail Liquidity Program (NASD)	0.00		0.01	0.00	0.00	0		0	19.0000	0		0	

Material Aspects:

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGX Exchange (EDGX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IBKR ATS (IATS):

IBKR operates the IBKR ATS in accordance with SEC Regulation ATS. IBKR uses the IBKR ATS to execute IBKR client orders against each other or against one or more professional liquidity providers who quote into the IBKR ATS. Order executions on the IBKR ATS are faster, eliminate exchange fees, and may offer Price Improvement. Statistical information regarding the quality of executions for orders effected through the IBKR ATS (e.g., average execution speed, percentage of orders receiving Price Improvement, etc.) is available on the IBKR website at: <https://ibkr.com/regulatoryreports>.

NYSE Arca (ARCX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

New York Stock Exchange (XNYS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MEMX LLC (MEMX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BZX Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IEX (IEXD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

clients.

MIAX PEARL Equities (EPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGA Exchange (EDGA):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BYX Exchange (BATY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PSX (XPSX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE CHX (XCHI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American (XASE):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX (XBOS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE National (XCIS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NASDAQ Retail Liquidity Program (NASD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

November 2022

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
99.84	0.00	31.44	60.85	7.71

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CBOE C2 Exchange (C2OX)	17.17		3.75	24.02	17.81	0		-543	-55.7290	611	42.0000	20	35.0000
Chicago Board Options Exchange (XCBO)	16.89		9.69	21.59	9.13	0		2,462	64.1540	-279	-10.2684	-13	-52.5833

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
NYSE Arca Options (ARCO)	15.22		6.55	19.77	14.61	0		-578	-73.4269	2,792	71.0968	3	7.0000
Nasdaq MRX (MCRY)	10.97		34.06	0.26	1.37	0		1,171	42.5901	7	27.4699	25	26.9822
Cboe EDGX Options Exchange (EDGO)	10.62		6.83	11.90	15.98	0		342	24.2926	208	20.9285	25	49.0000
Nasdaq Options Market (XNDQ)	8.77		2.58	13.08	0.00	0		-363	-52.6232	1,777	82.2736	0	
Nasdaq GEMX (GMNI)	3.33		2.41	4.23	0.00	0		-34	-13.9913	410	66.2783	0	
Cboe BZX Options Exchange (BATS)	3.17		2.52	3.91	0.00	0		-879	-82.2800	4,749	78.0853	0	
BOX Exchange (XBOX)	2.96		8.91	0.03	1.83	0		6,660	98.7497	0		9	108.7500
Nasdaq PHLX (XPHL)	2.68		6.11	0.23	7.99	0		191	11.7649	1	34.0000	0	0.0000
Nasdaq ISE (XISX)	2.47		4.09	0.12	14.38	0		107	20.1665	344	86.0000	15	33.8636
MIAX Emerald Exchange (EMLD)	1.87		1.74	0.20	15.53	0		-102	-65.9032	2	43.0000	24	45.3846
Nasdaq BX Options (XBXO)	1.50		4.76	0.00	0.00	0		-237	-58.4074	0		0	
MIAX PEARL (MPRL)	0.95		2.86	0.09	0.00	0		-245	-66.3631	2	85.0000	0	
MIAX Options Exchange (XMIO)	0.77		2.18	0.06	0.68	0		34	3.3771	0	0.0000	0	
NYSE American Options (AMXO)	0.67		0.95	0.52	0.68	0		1	0.7500	0	0.0000	0	

Material Aspects:

CBOE C2 Exchange (C2OX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Chicago Board Options Exchange (XCBO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca Options (ARCO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq MRX (MCRY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe EDGX Options Exchange (EDGO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq Options Market (XNDQ):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq GEMX (GMNI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe BZX Options Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

BOX Exchange (XBOX):

An affiliate under common control with IBKR has a substantial, minority investment in the Boston Options Exchange Group LLC, which operates the Boston Options Exchange. To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PHLX (XPHL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq ISE (XISX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Emerald Exchange (EMLD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX Options (XBXO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL (MPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Options Exchange (XMIO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American Options (AMXO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

December 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
99.98	0.00	82.47	17.53	0.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq Stock Market (XNAS)	38.96		36.63	49.91		0		-245	-9.9395	2,073	27.4077	0	
IBKR ATS (IATS)	20.34		24.53	0.66		0		0	0.0000	0	0.0000	0	
New York Stock Exchange (XNYS)	7.00		1.88	31.12		0		-53	-28.5462	429	19.6580	0	
CBOE EDGX Exchange (EDGX)	4.71		3.75	9.20		0		-81	-14.2929	4	24.9097	0	
NYSE Arca (ARCX)	4.26		4.68	2.28		0		-123	-11.8134	0	1.4286	0	
MEMX LLC (MEMX)	2.48		2.99	0.09		0		-62	-30.0000	0		0	
IEX (IEXG)	2.48		2.99	0.09		0		-20	-9.4667	-0	-10.0000	0	
CBOE BZX Exchange (BATS)	2.31		2.80	0.00		0		-52	-19.9159	0		0	
HRT Execution Services LLC (HRTX)	2.01		2.44	0.00		0		0	0.0000	0		0	
XTX Execution Services LLC (XTXE)	1.91		2.06	1.23		0		0	0.0000	0	0.0000	0	
UBS ATS (UBSA)	1.75		2.12	0.00		0		0	0.0000	0		0	
SG Americas Securities, LLC (SGAS)	1.55		1.88	0.00		0		0	0.0000	0		0	
Virtu Americas LLC "PRO" (VIRT)	1.40		1.69	0.00		0		0	0.0000	0		0	
CBOE BYX Exchange (BATY)	1.18		0.28	5.41		0		-9	-15.2900	0	2.0000	0	
Nasdaq PSX (XPSX)	1.08		1.31	0.00		0		-15	-30.0000	0		0	
CBOE EDGA Exchange (EDGA)	0.98		1.19	0.00		0		-1	-0.9000	0		0	
Citadel Securities "PRO" (CDRG)	0.91		1.11	0.00		0		0	0.0000	0		0	
NYSE CHX (XCHI)	0.82		0.99	0.00		0		-7	-10.0000	0		0	
CODA (CODA)	0.80		0.97	0.00		0		0	0.0000	0		0	
Jane Street Capital LLC "PRO" (JSJX)	0.73		0.89	0.00		0		0	0.0000	0		0	
MIAX PEARL Equities (EPRL)	0.62		0.75	0.00		0		-10	-24.6067	0		0	
The Barclays ATS (LATS)	0.58		0.71	0.00		0		0	0.0000	0		0	
Crossfinder	0.53		0.65	0.00		0		0	10.0000	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
(CAES)													
Level ATS (EBXL)	0.32		0.38	0.00		0		0	0.0000	0		0	
Nasdaq BX (XBOS)	0.27		0.32	0.00		0		1	3.5615	0		0	
NYSE National (XCIS)	0.03		0.04	0.00		0		0	0.0000	0		0	

Material Aspects:

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IBKR ATS (IATS):

IBKR operates the IBKR ATS in accordance with SEC Regulation ATS. IBKR uses the IBKR ATS to execute IBKR client orders against each other or against one or more professional liquidity providers who quote into the IBKR ATS. Order executions on the IBKR ATS are faster, eliminate exchange fees, and may offer Price Improvement. Statistical information regarding the quality of executions for orders effected through the IBKR ATS (e.g., average execution speed, percentage of orders receiving Price Improvement, etc.) is available on the IBKR website at: <https://ibkr.com/regulatoryreports>.

New York Stock Exchange (XNYS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGX Exchange (EDGX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca (ARCX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MEMX LLC (MEMX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BZX Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BYX Exchange (BATY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PSX (XPSX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGA Exchange (EDGA):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE CHX (XCHI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL Equities (EPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX (XBOS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE National (XCIS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

December 2022

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
98.86	0.01	63.67	36.27	0.05

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq Stock Market (XNAS)	20.58	100.00	12.46	34.76	62.50	0		-1,599	-19.4507	5,667	21.7585	-1	-15.0000
CBOE EDGX Exchange (EDGX)	15.83	0.00	5.80	33.46	0.00	0		-945	-24.2385	541	14.5482	0	
IBKR ATS (IATS)	9.74	0.00	15.00	0.52	0.00	0		0	0.0000	0	0.0000	0	
NYSE Arca (ARCX)	9.64	0.00	10.13	8.78	0.00	0		-2,124	-22.4224	5,673	31.0062	0	
New York Stock Exchange (XNYS)	8.25	0.00	4.03	15.63	37.50	0		-471	-19.5010	4,090	19.2807	0	
CBOE BZX Exchange (BATS)	4.22	0.00	6.61	0.03	0.00	0		-536	-26.9793	0		0	
MEMX LLC (MEMX)	3.85	0.00	5.74	0.54	0.00	0		-473	-29.3387	7	20.0000	0	
HRT Execution Services LLC (HRTX)	3.52	0.00	5.52	0.00	0.00	0		0	0.0000	0		0	
IEX (IEXD)	2.93	0.00	4.56	0.08	0.00	0		-53	-9.2061	0	0.0000	0	
UBS ATS (UBSA)	2.44	0.00	3.84	0.00	0.00	0		0	0.0000	0		0	
Citadel Securities "PRO" (CDRG)	2.20	0.00	3.45	0.00	0.00	0		0	0.0000	0		0	
CBOE BYX Exchange (BATY)	2.18	0.00	1.28	3.76	0.00	0		2	0.3404	0	1.5152	0	
MIAX PEARL Equities (EPRL)	2.13	0.00	2.41	1.64	0.00	0		-197	-15.8917	78	29.0000	0	
Virtu Americas LLC "PRO" (VIRT)	1.83	0.00	2.88	0.00	0.00	0		0	0.0000	0		0	
CBOE EDGA Exchange	1.75	0.00	2.73	0.02	0.00	0		-67	-6.0727	0		0	

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
(EDGA)													
CODA (CODA)	1.72	0.00	2.70	0.00	0.00	0		0	0.0000	0		0	
The Barclays ATS (LATS)	1.48	0.00	2.32	0.00	0.00	0		0	0.0000	0		0	
Crossfinder (CAES)	1.35	0.00	2.12	0.00	0.00	0		3	10.0000	0		0	
XTX Execution Services LLC (XTXE)	1.13	0.00	1.56	0.36	0.00	0		0	0.0000	0	0.0000	0	
Nasdaq PSX (XPSX)	0.95	0.00	1.47	0.05	0.00	0		-119	-22.9629	0	20.0000	0	
Jane Street Capital LLC "PRO" (JSJX)	0.87	0.00	1.37	0.00	0.00	0		0	0.0000	0		0	
NYSE American (XASE)	0.42	0.00	0.44	0.38	0.00	0		-37	-29.0950	0		0	
NYSE CHX (XCHI)	0.34	0.00	0.54	0.00	0.00	0		-11	-10.0000	0		0	
Nasdaq BX (XBOS)	0.26	0.00	0.40	0.00	0.00	0		1	2.5911	0		0	
Level ATS (EBXL)	0.25	0.00	0.40	0.00	0.00	0		0	0.0000	0		0	
NYSE National (XCIS)	0.15	0.00	0.24	0.00	0.00	0		0	0.0000	0		0	

Material Aspects:

Nasdaq Stock Market (XNAS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGX Exchange (EDGX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IBKR ATS (IATS):

IBKR operates the IBKR ATS in accordance with SEC Regulation ATS. IBKR uses the IBKR ATS to execute IBKR client orders against each other or against one or more professional liquidity providers who quote into the IBKR ATS. Order executions on the IBKR ATS are faster, eliminate exchange fees, and may offer Price Improvement. Statistical information regarding the quality of executions for orders effected through the IBKR ATS (e.g., average execution speed, percentage of orders receiving Price Improvement, etc.) is available on the IBKR website at: <https://ibkr.com/regulatoryreports>.

NYSE Arca (ARCX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

New York Stock Exchange (XNYS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE BZX Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MEMX LLC (MEMX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

IEX (IEXD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

clients.

CBOE BYX Exchange (BATY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL Equities (EPRL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

CBOE EDGA Exchange (EDGA):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq PSX (XPSX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE American (XASE):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE CHX (XCHI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq BX (XBOS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE National (XCIS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

December 2022

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
99.92	0.03	25.45	68.11	6.41

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CBOE C2 Exchange (C2OX)	23.63	100.00	4.44	31.00	21.20	0		-261	-51.1176	180	42.0000	12	35.0000
Cboe EDGX Options Exchange (EDGO)	16.60	0.00	7.26	20.45	12.80	0		355	34.1085	459	21.0000	23	49.0000
NYSE Arca Options (ARCO)	10.42	0.00	6.85	11.68	11.20	0		-171	-57.3077	8,675	74.5627	7	28.8462

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Nasdaq MRX (MCRY)	9.77	0.00	35.48	0.08	10.80	0		8,066	68.0236	1	27.4000	0	0.0000
Nasdaq Options Market (XNDQ)	7.41	0.00	3.12	9.72	0.00	0		2,050	80.4045	2,000	85.7719	0	
MIAX PEARL (MPRL)	4.21	0.00	5.24	4.22	0.00	0		-113	-40.0071	25	27.6374	0	
NYSE American Options (AMXO)	4.13	0.00	0.50	5.88	0.00	0		0	0.0000	0	0.0000	0	
Nasdaq PHLX (XPHL)	3.95	0.00	5.95	2.41	12.40	0		1,001	41.5536	0	0.0000	0	0.0000
Cboe BZX Options Exchange (BATS)	3.54	0.00	1.61	4.60	0.00	0		-58	-73.7821	11,247	84.6538	0	
Nasdaq ISE (XISX)	3.51	0.00	3.43	2.82	11.20	0		2	0.7687	1,545	86.0000	7	25.0000
Chicago Board Options Exchange (XCBO)	3.18	0.00	6.35	2.00	3.20	0		266	10.8684	-19	-44.2500	2	13.4167
Nasdaq GEMX (GMNI)	2.95	0.00	2.12	3.54	0.00	0		-69	-28.6724	1,636	78.2775	0	
BOX Exchange (XBOX)	2.31	0.00	8.57	0.19	0.00	0		11,021	122.7994	0	5.0000	0	
MIAX Options Exchange (XMIO)	1.54	0.00	1.41	1.32	4.40	0		5	0.4239	0	0.0000	2	20.0000
Nasdaq BX Options (XBXO)	1.44	0.00	5.65	0.00	0.00	0		49	15.4625	0		0	
MIAX Emerald Exchange (EMLD)	1.41	0.00	2.02	0.11	12.80	0		113	27.7598	1	85.0000	14	40.0000

Material Aspects:

CBOE C2 Exchange (C2OX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe EDGX Options Exchange (EDGO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

NYSE Arca Options (ARCO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq MRX (MCRY):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq Options Market (XNDQ):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX PEARL (MPRL):

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NYSE American Options (AMXO):

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Nasdaq PHLX (XPHL):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Cboe BZX Options Exchange (BATS):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq ISE (XISX):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Chicago Board Options Exchange (XCBO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

Nasdaq GEMX (GMNI):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

BOX Exchange (XBOX):

An affiliate under common control with IBKR has a substantial, minority investment in the Boston Options Exchange Group LLC, which operates the Boston Options Exchange. To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Options Exchange (XMIO):

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Nasdaq BX Options (XBXO):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.

MIAX Emerald Exchange (EMLD):

To the extent that IBKR receives volume discounts, such discounts are not passed on to clients. Likewise, to the extent that IBKR receives enhanced rebate payments for exceeding volume thresholds on particular markets, it does not pass these enhanced rebate amounts directly to clients.