

# SuperX ATS Monthly Statistics

SuperX is Deutsche Bank's Alternative Trading System (ATS) in the US. The SuperX ATS is a non-displayed order book for listed equities that can be accessed by clients directly, or using one of Deutsche Bank's equity trading platforms.

October 2020

### SUMMARY STATISTICS

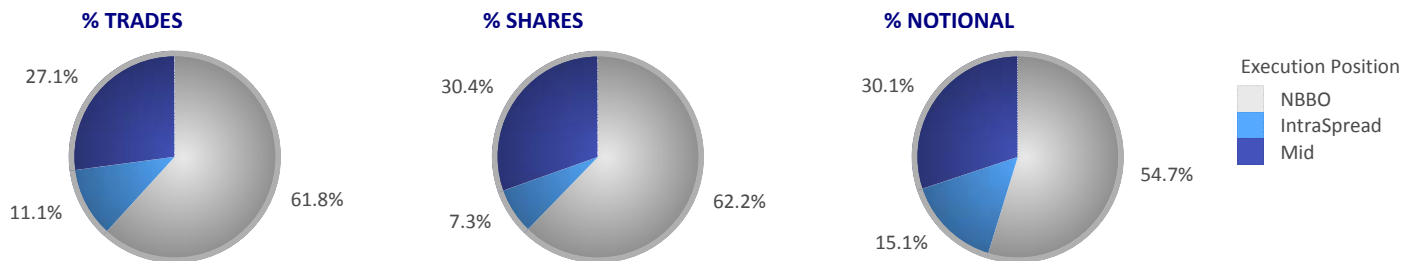
ADV - Shares (MM) *	20.9
ADV - Notional (MM) *	1,035.9
# Symbols traded	8,088

\* These figures are single counted.

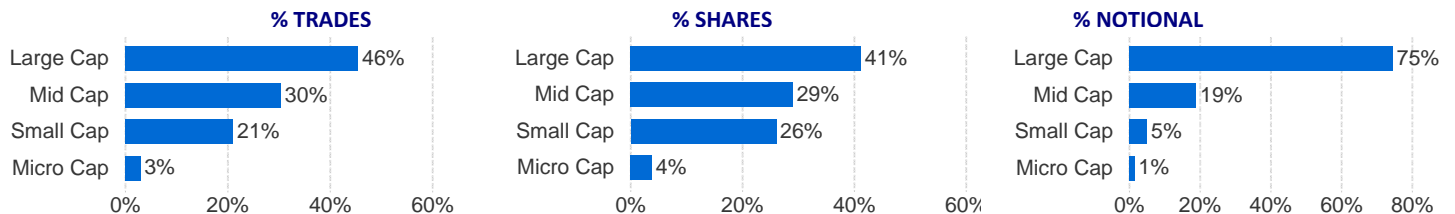
### TRADE SIZE STATISTICS

Avg Trade Size (shares)	148
% trades >= 10k shares	0.90%
% trades >= \$200k	1.20%

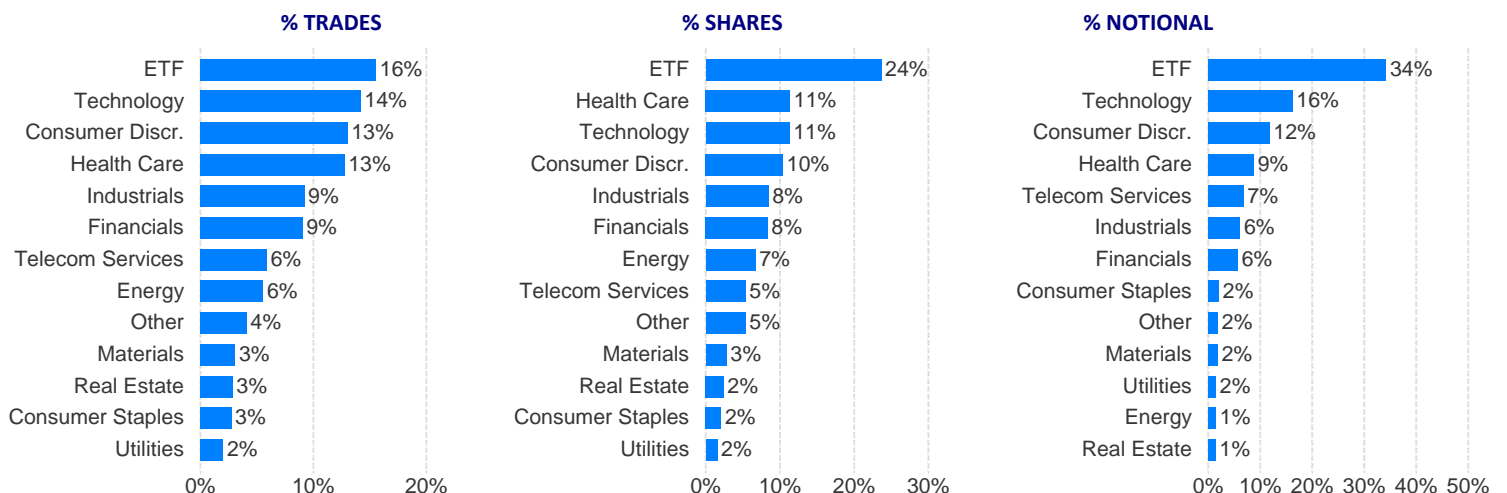
### TRADE PRICE SUMMARY



### MARKET CAP SUMMARY



### SECTOR SUMMARY



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## COUNTERPARTY TYPE SUMMARY

CounterParty Type	% Filled Shares	Average Fill Size	Spread (bps)	Spread Savings (bps)	Spread Savings (%)	Midpoint Slippage (bps)	T+20ms (bps)	T+30s (bps)	T+60min (bps)
1 Principal	0.1%	208	10.33	8.22	81.3%	3.20	-0.51	-2.92	-3.59
2 Agency	1.3%	152	8.59	6.87	80.0%	2.72	-0.81	-0.48	-10.17
3 Direct Low	63.4%	155	9.39	3.87	41.3%	-0.33	0.56	0.57	0.32
4 Direct Medium	20.3%	119	9.02	5.01	55.6%	0.11	-1.08	-0.61	0.77
5 Direct High	15.0%	174	4.96	3.57	72.2%	0.81	-0.25	-1.21	-1.16
<b>Total</b>	<b>100.0%</b>	<b>148</b>	<b>8.64</b>	<b>4.16</b>	<b>50.0%</b>	<b>-0.00</b>	<b>0.02</b>	<b>0.00</b>	<b>0.03</b>

## GLOSSARY

- 1 Principal: DBSI acting as principal
- 2 Agency: Agency client order flow sent from DBSI's Algorithms or Smart Order Routers, where the router or the Algorithm logic elects to route to SuperX
- 3 Direct Low: Agency client orders directly routed to SuperX that are determined by DBSI to have a low average price reversion
- 4 Direct Medium: Agency client orders directly routed to SuperX that are determined by DBSI to have a medium average price reversion
- 5 Direct High: Agency client orders directly routed to SuperX that are determined by DBSI to have a high average price reversion

*% Filled Shares: percentage of shares executed against a counterparty type.*

*Average Fill Size: the arithmetic average of fill size across all executions.*

*Spread (bps): the average difference in ask and bid prices expressed in basis points.*

*Spread Savings (bps): the notionally-weighted difference between fill price and the far touch price at fill time expressed in basis points.*

*Spread Savings (%): the notionally-weighted difference between fill price and the far touch price as a percentage of the bid-ask spread.*

*Midpoint Slippage (bps): the notionally-weighted difference between fill price and the midpoint price of the stock expressed in basis points.*

*T+X (bps): the notionally-weighted difference between the midpoint price at fill +X time units and the midpoint price at fill time expressed in basis points.*

*The above numbers are side-adjusted.*

*Positive mark outs reflect that prices moved in your favor. e.g. When buying, prices increased after the trade.*

*Negative mark outs reflect that prices moved against you. e.g. When buying, prices decreased after the trade.*

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