

Class of Instrument

AA99

Equity instruments- Shares and share certificates

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XNYS New York (NYSE) (NAY)	58,01 %	10,05 %	100,00 %	0,00 %	100,00 %
XSWX Zürich (ESE)	18,34 %	59,30 %	100,00 %	0,00 %	100,00 %
XBRN Bern (ESR)	15,58 %	10,55 %	100,00 %	0,00 %	100,00 %
XNAS New York - NASDAQ (NAD)	7,34 %	18,59 %	100,00 %	0,00 %	100,00 %
XAMS Amsterdam (ENA)	0,68 %	0,50 %	100,00 %	0,00 %	100,00 %



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Equity instruments- Shares and share certificates

Tick Size

liquidity band A and liquidity band B

				directed orders
57,61 %	35,88 %	100,00 %	0,00 %	100,00 %
16,83 %	43,90 %	100,00 %	0,00 %	99,91 %
12,43 %	4,61 %	56,86 %	43,14 %	100,00 %
8,61 %	9,74 %	100,00 %	0,00 %	99,74 %
1,49 %	1,24 %	100,00 %	0,00 %	100,00 %
	16,83 % 12,43 % 8,61 %	16,83 % 43,90 % 12,43 % 4,61 % 8,61 % 9,74 %	16,83 %       43,90 %       100,00 %         12,43 %       4,61 %       56,86 %         8,61 %       9,74 %       100,00 %	16,83 %       43,90 %       100,00 %       0,00 %         12,43 %       4,61 %       56,86 %       43,14 %         8,61 %       9,74 %       100,00 %       0,00 %



Class of Instrument

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Equity instruments- Shares and share certificates

Tick Size

liquidity band C and liquidity band D

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETR XETRA (EDE)	48,47 %	22,36 %	59,95 %	40,05 %	99,94 %
XNYS New York (NYSE) (NAY)	34,91 %	61,40 %	100,00 %	0,00 %	100,00 %
XLON London (EUL)	7,29 %	10,37 %	100,00 %	0,00 %	100,00 %
XNAS New York - NASDAQ (NAD)	4,27 %	1,27 %	100,00 %	0,00 %	100,00 %
XWBO Wien (EAV)	2,24 %	1,43 %	100,00 %	0,00 %	100,00 %



Class of Instrument A

AA99

Equity instruments- Shares and share certificates

Tick Size

liquidity band E and liquidity band F

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETR XETRA (EDE)	43,34 %	25,17 %	59,75 %	40,25 %	99,95 %
XNYS New York (NYSE) (NAY)	13,42 %	33,93 %	100,00 %	0,00 %	99,97 %
XPAR Paris (EFP)	13,06 %	12,38 %	100,00 %	0,00 %	100,00 %
XNAS New York - NASDAQ (NAD)	10,16 %	7,49 %	100,00 %	0,00 %	100,00 %
XCSE Kopenhagen (SDC)	4,20 %	3,52 %	100,00 %	0,00 %	100,00 %



Class of Instrument

AB99

Equity instruments- Shares and share certificates

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DINV New York Birdsh OTC (NIJD)	100 00 %	100 00 %	100 00 9/	0 00 9/	100 00 0/

PINX New York-PinkSh.-OTC (NUP)

100,00 %

100,00 %

100,00 %

0,00 %



Class of Instrument

AB99

Equity instruments- Shares and share certificates

Tick Size

liquidity band A and liquidity band B

Top five	execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XLON	London (EUL)	82,66 %	57,70 %	100,00 %	0,00 %	100,00 %
XNAS	New York - NASDAQ (NAD)	9,17 %	21,46 %	100,00 %	0,00 %	100,00 %
XFRA	Frankfurt (EDF)	4,77 %	4,04 %	100,00 %	0,00 %	100,00 %
XNYS	New York (NYSE) (NAY)	2,55 %	6,07 %	100,00 %	0,00 %	100,00 %
XNAS	New York (Nasdaq) (NAN)	0,74 %	10,42 %	100,00 %	0,00 %	100,00 %



Class of Instrument

AB99

Equity instruments- Shares and share certificates

Tick Size

liquidity band C and liquidity band D

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XNYS New York (NYSE) (NAY)	26,79 %	17,11 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	26,21 %	26,32 %	100,00 %	0,00 %	100,00 %
XLON London (EUL)	19,91 %	31,58 %	100,00 %	0,00 %	100,00 %
XNAS New York - NASDAQ (NAD)	16,07 %	9,21 %	100,00 %	0,00 %	100,00 %
XETR XETRA (EDE)	8,85 %	13,16 %	30,00 %	70,00 %	100,00 %



Class of Instrument

AB99

Equity instruments- Shares and share certificates

Tick Size

liquidity band E and liquidity band F

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XETR XETRA (EDE)	84,74 %	83,15 %	29,73 %	70,27 %	100,00 %
XNAS New York - NASDAQ (NAD)	15,26 %	16,85 %	100,00 %	0,00 %	100,00 %



Class of Instrument A

AC99

Exchange traded products (ETPs)Exc

Tick Size

not used

Top five	execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BRFQ	BIOCKMATCH MTF RFQ (BRFQ)	66,50 %	60,66 %	100,00 %	0,00 %	100,00 %
XETR	XETRA (EDE)	20,57 %	21,90 %	37,88 %	62,12 %	100,00 %
XLON	London (EUL)	6,71 %	11,94 %	100,00 %	0,00 %	100,00 %
XOFF	ausserbörslich EMSX (AUSC)	4,18 %	2,06 %	100,00 %	0,00 %	100,00 %
XAMS	Amsterdam (ENA)	0,84 %	1,35 %	100,00 %	0,00 %	100,00 %



Class of Instrument

AD99

other instruments

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XSWX Zürich (ESE)	81,99 %	88,18 %	100,00 %	0,00 %	100,00 %
XSWX Zurich - Swiss Blue (ESZ)	12,81 %	9,98 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	3,90 %	1,19 %	100,00 %	0,00 %	100,00 %
XHAM Hamburg (EDH)	1,30 %	0,65 %	100,00 %	0,00 %	100,00 %



Class of Instrument

AE99

other instruments

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XMAD Madrid (EEM)	60,39 %	94,94 %	100,00 %	0,00 %	98,49 %
XSWX Zürich (ESE)	32,88 %	0,48 %	100,00 %	0,00 %	100,00 %
XETR XETRA (EDE)	5,86 %	4,01 %	79,76 %	20,24 %	3,57 %
XPAR Paris (EFP)	0,66 %	0,10 %	100,00 %	0,00 %	100,00 %
XDUS Düsseldorf (EDD)	0,11 %	0,05 %	100,00 %	0,00 %	100,00 %



Class of Instrument

BA10

Debt instruments

Tick Size

not used

Top five	execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF	Bloomberg (BLOM)	88,55 %	85,56 %	100,00 %	0,00 %	100,00 %
XFRA	Frankfurt (EDF)	9,84 %	13,53 %	100,00 %	0,00 %	100,00 %
XSTU	Stuttgart (EDS)	1,34 %	0,80 %	0,00 %	100,00 %	100,00 %
XMUN	München (EDM)	0,15 %	0,03 %	0,00 %	100,00 %	100,00 %
XHAN	Hannover (EDI)	0,09 %	0,05 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BA11

Debt instruments

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF Bloomberg (BLOM)	96,77 %	84,68 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	2,87 %	13,51 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	0,35 %	1,80 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BA12

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
VEDA E 16 (/EDE)	100.00.0/	100.00.0/	100.00.0/	0.00.0/	100.00.0/

XFRA Frankfurt (EDF)

100,00 %

100,00 %

100,00 %

0,00 %



Class of Instrument

BA13

Debt instruments

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF Bloomberg (BLOM)	85,47 %	66,48 %	100,00 %	0,00 %	100,00 %
XFRA Frankfurt (EDF)	7,93 %	30,56 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	6,13 %	2,51 %	4,55 %	95,45 %	100,00 %
XMUN München (EDM)	0,39 %	0,34 %	0,00 %	100,00 %	100,00 %
XDUS Düsseldorf (EDD)	0,08 %	0,11 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BA14

Debt instruments

Tick Size

not used

Top five	execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF	Bloomberg (BLOM)	88,20 %	67,54 %	100,00 %	0,00 %	100,00 %
XFRA	Frankfurt (EDF)	8,74 %	28,26 %	100,00 %	0,00 %	100,00 %
XSTU	Stuttgart (EDS)	2,52 %	3,20 %	0,00 %	100,00 %	100,00 %
XMUN	München (EDM)	0,22 %	0,21 %	0,00 %	100,00 %	100,00 %
XBER	Berlin-Bremen (EDB)	0,15 %	0,22 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BA15

Debt instruments

Tick Size

not used

Top five	execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
BMTF	Bloomberg (BLOM)	91,35 %	79,50 %	100,00 %	0,00 %	100,00 %
XFRA	Frankfurt (EDF)	7,03 %	18,97 %	100,00 %	0,00 %	100,00 %
XSTU	Stuttgart (EDS)	1,17 %	0,96 %	0,00 %	100,00 %	100,00 %
XBER	Berlin-Bremen (EDB)	0,23 %	0,21 %	0,00 %	100,00 %	100,00 %
XHAN	Hannover (EDI)	0,16 %	0,29 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BD10

other derivatives

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: Y

	centage of Percentage of Percentage of directed orders
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XEUR EUREX (EDT)

100,00 %

100,00 %

35,48 %

64,52 %



Class of Instrument

BD21

Equity derivatives

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XEUR EUREX (EDT)	99,42 %	99,00 %	95,95 %	4,05 %	100,00 %
XCBO Chicago (CBOE) (NAV)	0,58 %	1,00 %	100,00 %	0,00 %	100,00 %



Class of Instrument

BD99

other derivatives

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XEUR EUREX (EDT)	72,82 %	69,23 %	66,67 %	33,33 %	100,00 %
XCME Chicago (CME) (NAG)	27,18 %	30,77 %	100,00 %	0,00 %	100,00 %



Class of Instrument

BE20

securitized derivatives

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders

XFRA Frankfurt (EDF)

100,00 %

100,00 %

100,00 %

0,00 %



Class of Instrument

BE21

securitized derivatives

Tick Size

not used

Top five execution venues ranked in terms of tradir volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XSTU Stuttgart (EDS)	59,27 %	40,09 %	4,65 %	95,35 %	100,00 %
XFRA Frankfurt (EDF)	40,73 %	59,68 %	100,00 %	0,00 %	100,00 %
XNYS New York (NYSE) (NAY)	0,00 %	0,12 %	100,00 %	0,00 %	100,00 %
XSWX Zürich (ESE)	0,00 %	0,12 %	100,00 %	0,00 %	100,00 %



Class of Instrument

BE22

securitized derivatives

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XFRA Frankfurt (EDF)	72,96 %	69,09 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	27,04 %	30,91 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BE24

securitized derivatives

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XFRA Frankfurt (EDF)	98,00 %	97,85 %	100,00 %	0,00 %	100,00 %
XSTU Stuttgart (EDS)	2,00 %	2,15 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BE99

securitized derivatives

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XFRA Frankfurt (EDF)	94,81 %	86,70 %	100,00 %	0,00 %	98,16 %
BMTF Bloomberg (BLOM)	2,62 %	5,32 %	100,00 %	0,00 %	100,00 %
XETR XETRA (EDE)	1,54 %	3,19 %	16,67 %	83,33 %	100,00 %
XSTU Stuttgart (EDS)	0,82 %	3,19 %	0,00 %	100,00 %	100,00 %
XAMS Amsterdam (ENA)	0,14 %	0,53 %	100,00 %	0,00 %	100,00 %



Class of Instrument B

BF99

Exchange traded products (ETPs)

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XLON London (EUL)	56,86 %	21,05 %	100,00 %	0,00 %	100,00 %
XETR XETRA (EDE)	41,06 %	71,05 %	3,70 %	96,30 %	100,00 %
XSTU Stuttgart (EDS)	2,08 %	7,89 %	0,00 %	100,00 %	100,00 %



Class of Instrument

BG99

Exchange traded products (ETPs)

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: Y

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
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XETR XETRA (EDE)

100,00 %

100,00 %

80,00 %

20,00 %



Class of Instrument

C999

no specific classification

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
XVES (VST)	45,59 %	14,43 %	100,00 %	0,00 %	92,86 %
XSTU Stuttgart (EDS)	38,63 %	20,62 %	0,00 %	100,00 %	100,00 %
XHAM Hamburg (EDH)	10,73 %	53,61 %	1,92 %	98,08 %	100,00 %
XFRA Frankfurt (EDF)	3,13 %	10,31 %	100,00 %	0,00 %	100,00 %
XBER Berlin-Bremen (EDB)	1,92 %	1,03 %	0,00 %	100,00 %	100,00 %



Class of Instrument

CA99

Debt instruments

Tick Size

not used

Information on whether an average of < 1 trade per business day was executed in the previous year: N

Top five execution venues ranked in terms of trading volumes (descending order)	-	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
DMTE Discussion (DLOM)	100.00.07	100.00.0/	100 00 0/	0.00.0/	100 00 0/

BMTF Bloomberg (BLOM)

100,00 %

100,00 %

100,00 %

0,00 %



Class of Instrument

CB99

Other instruments

Tick Size

not used

Top five execution venues ranked in terms of trading volumes (descending order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
WIAX Warburg Invest AG (WIAG)	63,66 %	61,68 %	100,00 %	0,00 %	100,00 %
XVES (VST)	35,42 %	38,00 %	100,00 %	0,00 %	99,92 %
XHAM Hamburg (EDH)	0,50 %	0,03 %	0,00 %	100,00 %	100,00 %
XFRA Frankfurt (EDF)	0,19 %	0,12 %	100,00 %	0,00 %	100,00 %
XMUN München (EDM)	0,11 %	0,03 %	0,00 %	100,00 %	100,00 %