

Teste 2 Assi
2 Axis Heads

MORE VALUE FOR YOUR MACHINE.

HSD
MECHATRONICS

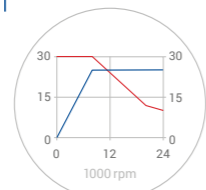


Teste 2 Assi
2 Axis Heads **DIRECT DRIVE**

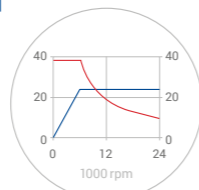


TESTE 2 ASSI HSD 2 AXIS HEADS	DIRECT DRIVE	HS610 - SINGLE SIDED	HS610 - DOUBLE SIDED
Coppia Max. Asse A A Axis Max torque	Nm	480	480
Coppia Max. Asse C C Axis Max torque	Nm	680	680
Coppia di bloccaggio freni asse A; C Clamping torque Axis brakes A; C	Nm	1800/2000	1800/2000
Max velocità di rotazione asse A; C Max. speed Axis A; C	°/sec	180;180	180;180
Precisione sistema di misura A; C Measuring system Accuracy A; C	arcsec	4;4	5;4
Angolo di rotazione Asse A; C A; C Axis Rotation		+110°;±270°	+110°;±270°
Rotazione infinita Asse A; C (Slip Ring) A; C Axis endless Rotation		No/No	No/No
Encoder Assi Axis Encoder		Absolute	Absolute
Freni Assi Axis Brake		Hydraulic	Hydraulic
Peso Weight	Kg	260	290
Elettromandri disponibili Available electropindles		ES505 HSK A63	ES510 HSK A63
Coppia S1/S6 Torque S1/S6	Nm	30/36	38/46
Potenza S1/S6 Power S1/S6	kW	25/30 Synch	24/28,8 Asyn
Velocità Massima Max Speed	rpm	20000 Grease 24000 Air-oil	18000 Grease 24000 Air-oil
Velocità Nominale Rated Speed	rpm	8000	6000
Encoder Encoder		Yes	Yes

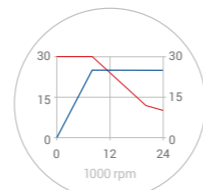
HS810 - SINGLE SIDED		HS810 - DOUBLE SIDED		
	707			1414
	1250			1250
	2000/4000			4000/4000
	180;180			180;180
	2;2			2;2
	+110°;±270°			+110°;±270°
	No;No			No;No
	Absolute			Absolute
	Hydraulic			Hydraulic
	550			740
ES510 HSK A63	ES510 HSK A100	ES510 HSK A63	ES510 HSK A100	ES511 ISO 50/HSK A100
67/87,5	95,5/124	67/87,5	95,5/124	150/202
42/55 Synch	50/65 Synch	42/55 Synch	50/65 Synch	47/63,5 Synch
18000 Grease 24000 Air-oil	12000 Grease 15000 Air-oil	18000 Grease 24000 Air-oil	12000 Grease 15000 Air-oil	8000 Grease (ISO50) 12000 Grease (A100) 13000 Air-oil (A100)
6000	5000	6000	5000	3000
Yes	Yes	Yes	Yes	Yes



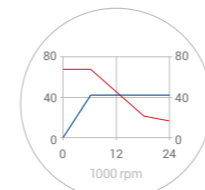
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[Nm] S1



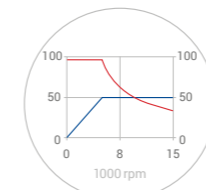
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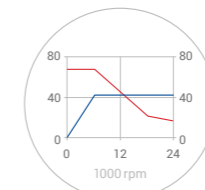
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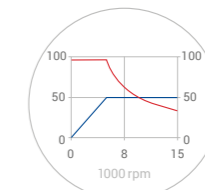
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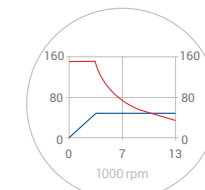
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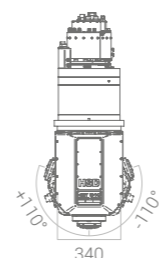
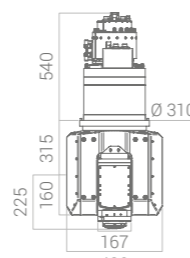
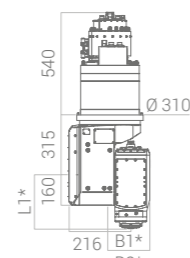
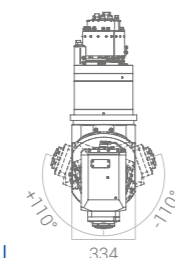
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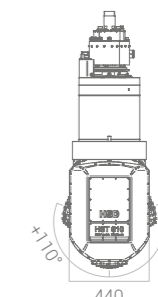
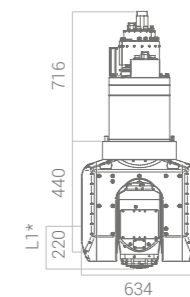
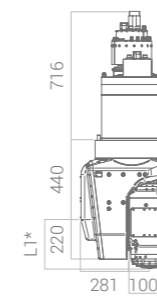
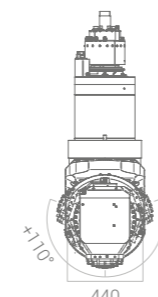
[kW] S1
[Nm] S1



[kW] S1
[Nm] S1



Electropindles	L1	B1	B2
ES505 A63 25 kW	280	110	204
ES510 A63 24 kW	342	160	276



Electropindles	L1
ES510 A63 42 kW	268
ES510 A100 50 kW	303

Electropindles	L1
ES510 A63 42 kW	256
ES510 A100 50 kW	291
ES511 A100/ ISO50 47 kW	357

Teste 2 Assi 2 Axis Heads



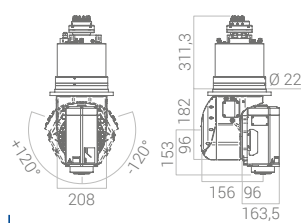
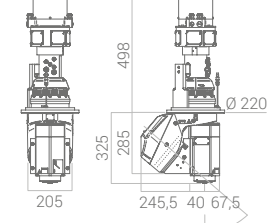
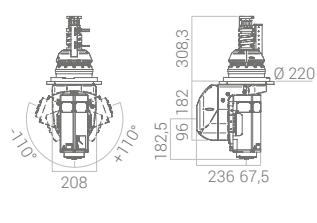
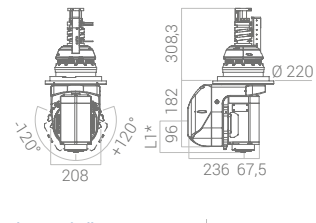
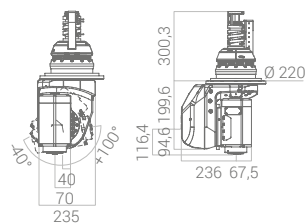
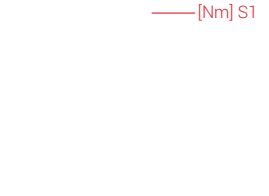
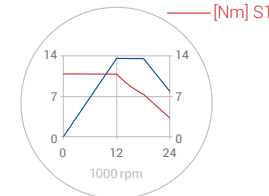
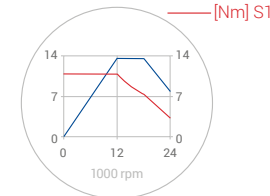
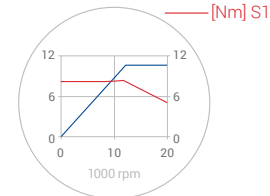
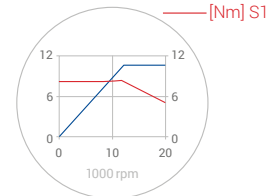
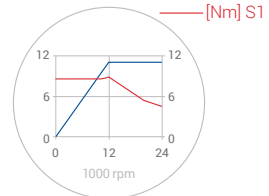
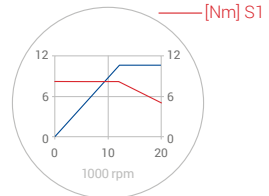
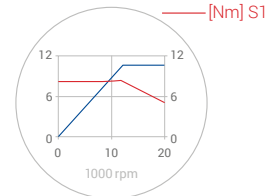
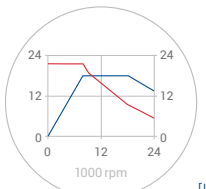
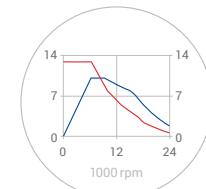
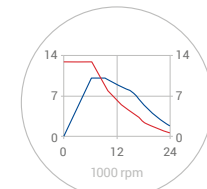
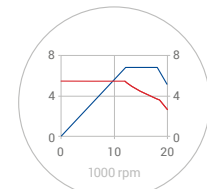
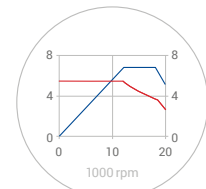
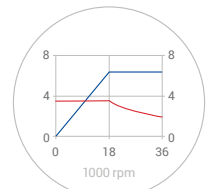
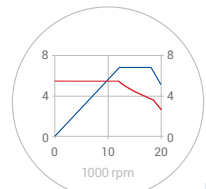
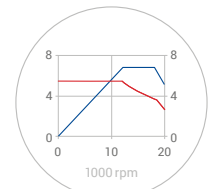
TESTE 2 ASSI HSD 2 AXIS HEADS	HS300	HS300D	HS300D NEW	HS300C	HST310 DIRECT DRIVE	HS450	HS560	HST570 DIRECT DRIVE
Servomotore standard Standard Servomotors	HSD Axis Motors	HSD Axis Motors	HSD Axis Motors	HSD Axis Motors	HSD Axis Motors	Yaskawa;Num;Siemens;Fanuc;Fagor;Mitsubishi;RTA	Yaskawa;Siemens;Num;-Beckhoff	HSD Axis Motors
Coppia di stallo/ Max. Asse A A Axis stall/ Max torque	Nm 270; 480	270; 480	270; 480	270; 480	32; 80	300; 600**	300; 600**	130;200
Coppia di stallo/ Max. Asse C C Axis stall/ Max torque	Nm 270; 480	270; 480	270; 480	270; 480	64; 160	400; 600**	400; 800**	183;300
Coppia di bloccaggio freni asse A; C Clamping torque Axis brakes A; C	Nm -	-	-	-	210; 342	-	-	342;342
Max velocità di rotazione asse A; C Max. speed Axis A; C	°/sec 75; 75	75; 75	75; 75	75; 75	180; 180	150; 150**	80; 80**	180;180
Precisione posizionamento A; C Positioning Accuracy A; C	arcsec 60; 60	60; 60	60; 60	60; 60	30; 30	60; 60	60; 60	24;24
Angolo di rotazione Asse A; C A; C Axis Rotation	+100°/-40°; ±220°	±120°; ±220°	±110°; ±220°	Endless; ±220°	120; 220	±120°;±213°/±220°	Endless; ±245°	Endless; Endless
Rotazione infinita Asse A; C (Slip Ring) A; C Axis endless Rotation	No/Option	No/Option*	No/Option*	Yes/Option	No; Option	No/Option	Yes/Option	Yes/Yes
Encoder Assi Axis Encoder	-	-	-	-	Yes (AMO)	-	-	Yes (AMO)
Freni Assi Axis Brake	-	-	-	-	Yes Pneumatic	-	-	Yes Pneumatic
Peso Weight	kg ~ 55	~ 55	~ 55	~ 60	75	~ 100	~ 120	~ 150
Elettromandri disponibili Available electrospindles	ES368 HSK F63	ES368 HSK F63	ES368 HSK F63-E40	ES369 HSK F63	ES368 HSK F63	ES779 HSK F63-E63	ES779 HSK F63-E63	ES367 HSK F63
Coppia S1/S6 Torque S1/S6	Nm 5,6/6,9 Asyn; 8,7/10,3 Synch	5,6/6,9 Asyn; 8,7/10,3 Synch	3,4/4,1 Asyn (E40) 8,7/10,3 Syn (F63)	5,6/6,9 Asyn; 8,7/10,3 Synch	5,6/6,9 Asyn; 8,7/10,3 Synch	12,7/15,3 Asyn; 10,7/12,9 Asyn	12,7/15,3 Asyn; 10,7/12,9 Asyn	21,5/25,8
Potenza S1/S6 Power S1/S6	kW 7/8,7 Asyn; 11/13 Synch	7/8,7 Asyn; 11/13 Synch	6,5/7,8 (E40); 11/13 (F63)	7/8,7 Asyn; 11/13 Synch	7/8,7 Asyn; 11/13 Synch	10/12 Asyn; 13,5/16,2 Asyn	10/12 Asyn; 13,5/16,2 Asyn	18/21,6 Synch
Velocità Massima Max Speed	rpm 20000	20000	24000 (Encoder) (F63) 36000 (No Encoder) (E40)	20000	20000	24000	24000	24000
Velocità Nominale Rated Speed	rpm 12000	12000	12000 18000	12000	12000	7500/12000	7500/12000	8000
Encoder Encoder	-	TTL/sincos (Option)	TTL/sincos (only for HSK F63)	-	TTL/sincos (Option)	TTL/sincos (Option)	Option (TTL)	-

* Solo senza Encoder Mandrino
* Only without Electrospindles Encoder

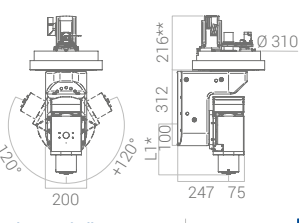
** Questi valori possono cambiare in base al servomotore scelto
** Values depend on the servomotor chosen

*** Con Encoder assi
*** With axis Encoder

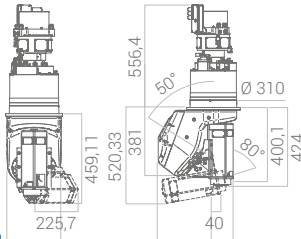
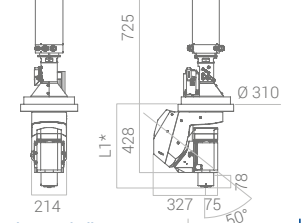
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With Siemens servomotor



With Siemens servomotor



Electrospindles	L1
ES368 No Encoder	118 mm
ES368 Encoder	153 mm

Electrospindles	L1	Electrospindles	L1
ES779 10KW	185 mm	ES779 10KW	469 mm
ES779 10KW LN	235 mm	ES779 10KW LN	519 mm
ES779 13,5KW	251 mm	ES779 13,5KW	519 mm



TESTE 2 ASSI HSD
2 AXIS HEADS

Servomotore standard
Standard Servomotors

Coppia di stallo/ Max. Asse A
A Axis stall/ Max torque

Coppia di stallo/ Max. Asse C
C Axis stall/ Max torque

Coppia di bloccaggio freni asse A; C
Clamping torque Axis brakes A; C

Max velocità di rotazione asse A; C
Max. speed Axis A; C

Precisione posizionamento A; C
Positioning Accuracy A; C

Angolo di rotazione Asse A; C
A; C Axis Rotation

Rotazione infinita Asse A; C (Slip Ring)
A; C Axis endless Rotation

Encoder Assi
Axis Encoder

Freni Assi
Axis Brake

Peso
Weight

Elettromandri disponibili
Available electrospindles

Coppia S1/S6
Torque S1/S6

Potenza S1/S6
Power S1/S6

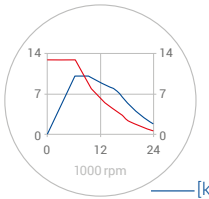
Velocità Massima
Max Speed

Velocità Nominale
Rated Speed

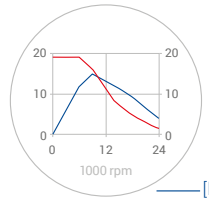
Encoder
Encoder

HS675	HS675	HS655	HS655	HS678	HS678	HS778
Fanuc;Yaskawa;Siemens	Fanuc;Yaskawa;Siemens	Num;Yaskawa;Siemens;Fanuc; Baumueller;Fagor;Mitsubishi;Osai	Fagor;Yaskawa;Siemens;Fanuc; Schneider;Osai;Heidenhain	Yaskawa;Siemens;Fanuc; B&R;Osai;Glenetek	Fanuc;Siemens	Yaskawa;Siemens
300; 1000**	300; 1000**	400; 1000**	400; 1000**	500; 1200**	500; 1200**	1000; 2400**
500; 1200**	500; 1200**	500; 1200**	500; 1200**	500; 1200**	500; 1200**	1000; 2400**
600; 600	600; 600	-	480; 600	1080; 1080	1080; 1080	2000; 3000
130; 200**	130; 200**	170; 270**	170; 270**	120; 200**	120; 200**	140; 250**
60; 60 (30;30)***	60; 60 (30;30)***	60; 60 (30;30)***	60; 60 (30;30)***	30; 30	30; 30	30; 30
±120°; ±245°	±120°; ±245°	±120°; ±245°	±120°; ±245°	±120°; ±245°/270°	±100°; ±245°	±100°; ±262°
No/No	No/No	No/Option	No/Option	No/No	No/No	No/No
Option (AMO)	Option (AMO)	Option (AMO)	Option (AMO)	Yes (Heidenhain)	Yes (Heidenhain)	Yes (Renishaw; AMO)
Option Pneumatic	Option Pneumatic	No	Option Pneumatic	Yes Pneumatic	Yes Pneumatic	Yes Hydraulic
~ 160	~ 160	~ 120	~ 120	~ 250	~ 280	~ 350

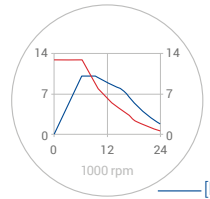
ES779 HSK F63	ES789 HSK F63-A63	ES779 HSK F63-A63-E40/F50	ES789 HSK F63-A63	ES798 HSK A63-E63	ES510 HSK A63	ES510 HSK A63
12,7/15,3	19,1/20,9 Asyn	12,7/15,3 Asyn; 10,7/12,9 Asyn	19,1/20,9 Asyn	28/32 Asyn	38/46 Asyn	67/87,5 Synch
10/12	15/18 Asyn	10/12 Asyn; 13,5/16,2 Asyn	15/18 Asyn	22/25 Asyn	24/28,8 Asyn	42/55 Synch
24000	24000	24000	24000	20000	18000 (Grease) 24000 (Air-oil)	18000 (Grease) 24000 (Air-oil)
7500	9000	7500/12000	9000	7500	6000	6000
TTL/sincos (Option)	TTL/sincos (Option)	TTL/sincos (Option)	TTL/sincos (Option)	Yes	Yes	Yes



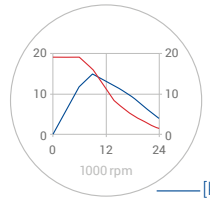
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[Nm] S1



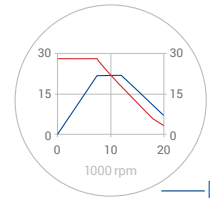
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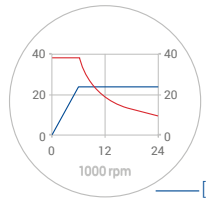
[kW] S1
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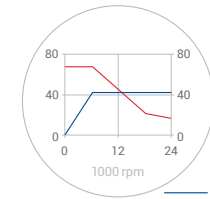
[kW] S1
[Nm] S1



[kW] S1
[Nm] S1

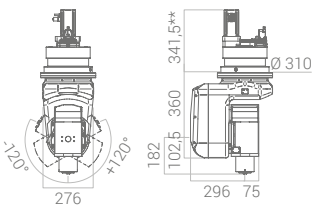


[kW] S1
[Nm] S1

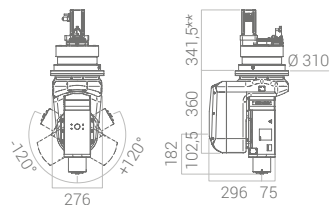


[kW] S1
[Nm] S1

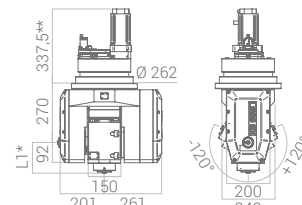
With Yaskawa servomotor



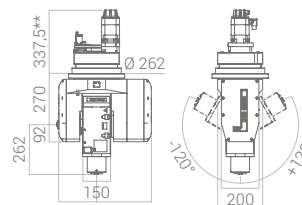
With Yaskawa servomotor



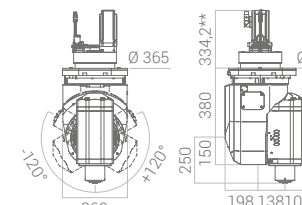
With Fanuc servomotor



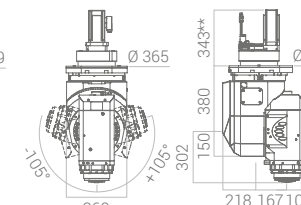
With Fanuc servomotor



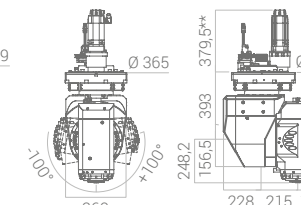
With Siemens servomotor



With Siemens servomotor



With Siemens servomotor



Electrospindles	L1
ES779 10KW	135 mm
ES779 10KW/LN	185 mm
ES779 13,5KW	201 mm



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