Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –120

Water-Cooling



EDS–120g



EDS–E40

EBS/EDS Series

Specifications \ Type			120(ISO–30)		120(HSK–E40)	
			EB(M)S–120g	EB(M)S–120m	ED(C)S–120g	ED(C)S–120m
Model	Total length	mm	461.5/482.5		461.5/482.5	
	Approx.weight	kg	26		26	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		30000	36000	30000	42000
Motor	Number of pole	pole	4		4	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	36/21		36/21	
	Max.frequency	Hz	1000/1200		1000/1200	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	7.5/11.3		7.5/11.3	
	Torque S1 100% / S6 60%(T)	N.m	6.4/8.8		6.4/8.8	
	at speed (n0)	1/min	11300		11300	
Clamping System	Front bearing size	mm	Φ45		Φ45	
	Taper size		ISO–30		HSK–E40	
	Drive dogs		–		–	
	Tool dimensions	mm	Φ2～Φ20		Φ2～Φ20	
	Static clamping force(static)	N	2400		6800	
	Tool release pressure	Bar	Air > 6/Oil 60~80		Air > 6/Oil 60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	2		2	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –150

Water-Cooling



HFS–150wg



HFS–BBT40

HCS/ HFS Series

Specifications \ Type			150WG(HSK–A63)		150WG(BBT–40)	
			HCS–150wg	HCS–150wm	HFS–150wg	HFS–150wm
Model	Total length	mm	607.5~662.5		607.5~662.5	
	Approx.weight	kg	55		55	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		12000	15000	12000	15000
Motor	Number of pole	pole	8		8	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	52/30		52/30	
	Max.frequency	Hz	810		810	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	15/18		15/18	
	Torque S1 100% / S6 60%(T)	N.m	53/61		53/61	
	at speed (n0)	1/min	5600		5600	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		HSK–A63		BBT–40	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		8000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –150

Water-Cooling



HFS–150Lg



HFS–A63

HCS/HFS Series

Specifications \ Type			150(HSK–A50/E50)		150L(SK–40)		150L(HSK–A63)	
			HCS–150g	HCS–150m	HFS–150Lg	HFS–150g	HCS–150Lg	HCS–150Lm
Model	Total length	mm	481.5~529.5		494/549		494/549	
	Approx.weight	kg	50		54		54	
	Flange mounting		Yes		Yes		Yes	
	Operation position		V/H		V/H		V/H	
Lubrication	Grease		Yes	–	Yes		Yes	
	Oil/air lubrication		–	Yes	–		–	
	Oil injection lubrication		–	–	–		–	
	Spindle model		24000	30000	20000		20000/24000	
Motor	Number of pole	pole	4		4		4	
	Voltage	V	220/380		220/380		220/380	
	Max current (200V/380V)	A	49/30		52/30		52/30	
	Max.frequency	Hz	1000		810		810	
	Rotation direction		CW/CCW		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	15/22		15.7/16.8		15. 7/16.8	
	Torque S1 100% / S6 60%(T)	N.m	20/30		27/32		27/32	
	at speed (n0)	1/min	7200		5500		5500	
Clamping System	Front bearing size	mm	Φ55		Φ65		Φ65	
	Taper size		HSK–E50		ISO–40		HSK–A63	
	Drive dogs		S		S		S	
	Tool dimensions	mm	–		–		–	
	Static clamping force(static)	N	11000		8000		18000	
	Tool release pressure	Bar	60~80		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		5		6	
	Shaft positioning(vector control)		128T		128T		128T	
	Front seal	Bar	1~1.5		1~1.5		1~1.5	
	Cooling system	kw	4		4		4	
	Tool detection		S		S		S	
Options	External coolant		S		S		S	
	CTS		op		op		op	
	Bearing temperature		op		op		op	
	Accelerate gauge		op		op		op	

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Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –155

Water-Cooling



HCS–155Lg



HCS–A63

HFS/HCS Series

Specifications \ Type			155(SK–40)		155(HSK–A63)	
			HFS–155Lg	HFS–155g	HCS–155Lg	HCS–155Lm
Model	Total length	mm	510/557		510/557	
	Approx.weight	kg	55		55	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		18000	18000	18000	18000
Motor	Number of pole	pole	6		6	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	50/29		50/29	
	Max.frequency	Hz	910		910	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	15		15	
	Torque S1 100% / S6 60%(T)	N.m	50/60		50/60	
	at speed (n0)	1/min	3000		3000	
Clamping System	Front bearing size	mm	Φ65		Φ65	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		5	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –170

Water-Cooling



HCS–170g



HCS–A63

HFS/HCS Series

Specifications \ Type			170(SK–40)		170(HSK–A63)	
			HFS–170g	HFS–170m	HCS–170g	HCS–170m
Model	Total length	mm	581.9/630		581.9/630	
	Approx.weight	kg	76		76	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	20000
Motor	Number of pole	pole	6		6	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	59/34		59/34	
	Max.frequency	Hz	912		912	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	15/18		15/18	
	Torque S1 100% / S6 60%(T)	N.m	50/60		50/60	
	at speed (n0)	1/min	3000		3000	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A30	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		5	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	5		5	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

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Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive motorized spindle –180

Water-Cooling



HFS–180g



HCS–A63

HFS/HCS Series

Specifications \ Type			180(SK–40)		180(HSK–A63)	
			HFS–180g	HFS–180m	HCS–180g	HCS–180m
Model	Total length	mm	608/663		608/663	
	Approx.weight	kg	90		90	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	20000
Motor	Number of pole	pole	6		6	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	112/65		112/65	
	Max.frequency	Hz	1005		1005	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	28/33.5		28/33.5	
	Torque S1 100% / S6 60%(T)	N.m	100/120		100/120	
	at speed (n0)	1/min	2600		2600	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	7		7	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –190

Water-Cooling



HCS–190g



HCS–A63

HFS/HCS Series

Specifications \ Type			190(SK–40)		190(HSK–A63)	
			HFS–190g	HFS–190m	HCS–190g	HCS–190m
Model	Total length	mm	554.5/602.5		554.5/602.5	
	Approx.weight	kg	90		90	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	20000
Motor	Number of pole	pole	6		6	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	112/65		112/65	
	Max.frequency	Hz	1005		1005	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	28/33.5		28/33.5	
	Torque S1 100% / S6 60%(T)	N.m	100/120		100/120	
	at speed (n0)	1/min	2650		2650	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	7		7	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

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Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive spindle 190–50NM

Water-Cooling





HFS/HCS Series

Specifications \ Type			190(SK–40)		190(HSK–A63)	
			HFS–190g	HFS–190m	HCS–190g	HCS–190m
Model	Total length	mm	555/602		555/602	
	Approx.weight	kg	90		90	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	20000
Motor	Number of pole	pole	4		4	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	65		65	
	Max.frequency	Hz	1000		1000	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	15		15	
	Torque S1 100% / S6 60%(T)	N.m	50		50	
	at speed (n0)	1/min	4000		4000	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –220

Water-Cooling





HFS/HCS Series

Specifications \ Type			220(SK–50)		220(HSK–A100)	
			HFS–220g	HFS–220m	HCS–220g	HCS–220m
Model	Total length	mm	690/750		690/750	
	Approx.weight	kg	200		200	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		10000	10000	12000	15000
Motor	Number of pole	pole	8		8	
	Voltage	V	380		380	
	Max current (200V/380V)	A	120		120	
	Max.frequency	Hz	800		800	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	42		42	
	Torque S1 100% / S6 60%(T)	N.m	200		200	
	at speed (n0)	1/min	2000		2000	
Clamping System	Front bearing size	mm	Φ100		Φ100	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	6		6	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –220

Water-Cooling



HFS–220g



HFS–A100

HFS/HCS Series

Specifications \ Type			220(SK–50)		220(HSK–A100)	
			HFS–220g	HFS–220m	HCS–220g	HCS–220m
Model	Total length	mm	690.5/750.6		690.5/750.6	
	Approx.weight	kg	200		200	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		10000	10000	12000	15000
Motor	Number of pole	pole	8		8	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	123/118		123/118	
	Max.frequency	Hz	1010		1010	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	26/33		26/33	
	Torque S1 100% / S6 60%(T)	N.m	165/200		165/200	
	at speed (n0)	1/min	1500		1500	
Clamping System	Front bearing size	mm	Φ100		Φ100	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	6		6	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –250

Water-Cooling



HFS/HCS Series

Specifications		Type	250(SK–50)		250(HSK–A100)	
			HFS–250g	HFS–250m	HCS–250g	HCS–250m
Model	Total length	mm	814/882		814/882	
	Approx.weight	kg	220		220	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		10000	10000	12000	15000
Motor	Number of pole	pole	8		8	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	83		83	
	Max.frequency	Hz	810		810	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	31		31	
	Torque S1 100% / S6 60%(T)	N.m	298		298	
	at speed (n0)	1/min	1000		1000	
Clamping System	Front bearing size	mm	Φ100		Φ100	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	7		7	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –270

Water-Cooling



HFS–270g

HFS/HCS Series

Specifications		Type	270(SK–50)		270(HSK–A100)	
			HFS–270g	HFS–270m	HCS–270g	HCS–270m
Model	Total length	mm	909/964		909/964	
	Approx.weight	kg	240		240	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		8000	8000	8000	10000
Motor	Number of pole	pole	4		4	
	Voltage	V	380		380	
	Max current (200V/380V)	A	89		89	
	Max.frequency	Hz	337		337	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	45/54		45/54	
	Torque S1 100% / S6 60%(T)	N.m	420/516		420/516	
	at speed (n0)	1/min	1000		1000	
Clamping System	Front bearing size	mm	Φ110		Φ110	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	10		10	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –285

Water-Cooling



HCS–285g

HFS/HCS Series

Specifications \ Type			285(SK–50)		285(HSK–100)	
			HFS–285g	HFS–285m	HCS–285g	HCS–285m
Model	Total length	mm	1027/1082		1027/1082	
	Approx.weight	kg	245		245	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		8000	8000	8000	10000
Motor	Number of pole	pole	4		4	
	Voltage	V	380		380	
	Max current (200V/380V)	A	89		89	
	Max.frequency	Hz	337		337	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	45/54		45/54	
	Torque S1 100% / S6 60%(T)	N.m	420/516		420/516	
	at speed (n0)	1/min	1000		1000	
Clamping System	Front bearing size	mm	Φ110		Φ110	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	10		10	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –290

Water-Cooling



HCS–290g

HFS/HCS Series

Specifications \ Type			290(SK–50)		290(HSK–A100)	
			HFS–290g	HFS–290m	HCS–290g	HCS–290m
Model	Total length	mm	932/987		932/987	
	Approx.weight	kg	250		250	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		8000	8000	8000	10000
Motor	Number of pole	pole	4		4	
	Voltage	V	380		380	
	Max current (200V/380V)	A	89		89	
	Max.frequency	Hz	337		337	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	45/54		45/54	
	Torque S1 100% / S6 60%(T)	N.m	420/516		420/516	
	at speed (n0)	1/min	1000		1000	
Clamping System	Front bearing size	mm	Φ110		Φ110	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	10		10	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –300g

Water-Cooling



HCS–300g

HFS/HCS Series

Specifications \ Type			300(SK–50)		300(HSK–A100)	
			HFS–300g	HFS–300m	HCS–300g	HCS–300m
Model	Total length	mm	932/987		932/987	
	Approx.weight	kg	250		250	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		8000	8000	8000	10000
Motor	Number of pole	pole	4		4	
	Voltage	V	380		380	
	Max current (200V/380V)	A	89		89	
	Max.frequency	Hz	337		337	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	45/54		45/54	
	Torque S1 100% / S6 60%(T)	N.m	420/516		420/516	
	at speed (n0)	1/min	1000		1000	
Clamping System	Front bearing size	mm	Φ110		Φ110	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	10		10	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

Direct drive electric spindle –335

Water-Cooling



HFS–335g

HFS/HCS Series

Specifications \ Type			335(SK–50)		335(HSK–A100)	
			HFS–335g	HFS–335m	HCS–335g	HCS–335m
Model	Total length	mm	992		992	
	Approx.weight	kg	300		300	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		8000	8000	8000	10000
Motor	Number of pole	pole	4		4	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	336		336	
	Max.frequency	Hz	225		225	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	55/66		55/66	
	Torque S1 100% / S6 60%(T)	N.m	808/1355		808/1355	
	at speed (n0)	1/min	600		600	
Clamping System	Front bearing size	mm	Φ110		Φ110	
	Taper size		ISO–50		HSK–A100	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	18000		45000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	4		4	
	Cooling system	kw	10		10	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

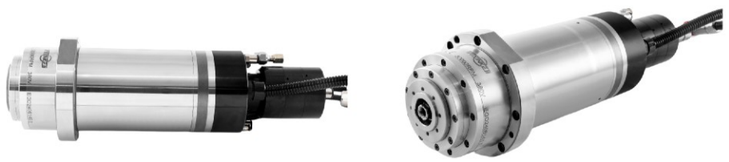
Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –120–56L

Water-Cooling



EBS/EDS Series

Specifications	Type		120(ISO–30)		120(HSK–E40)	
			EB(M)S–120g	EB(M)S–120m	ED(C)S–120g	ED(C)S–120m
Model	Total length	mm	461.5/482.5		461.5/482.5	
	Approx.weight	kg	26		26	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		30000	36000	30000	36000
Motor	Number of pole	pole	4		4	
	Voltage	V	220		220	
	Max current (200V/380V)	A	36		36	
	Max.frequency	Hz	1000		1000	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	7.5		7.5	
	Torque S1 100% / S6 60%(T)	N.m	6.34		6.34	
	at speed (n0)	1/min	11300		11300	
Clamping System	Front bearing size	mm	Φ45		Φ45	
	Taper size		ISO–30		HSK–E40	
	Drive dogs		–		–	
	Tool dimensions	mm	Φ2–Φ20		Φ2–Φ20	
	Static clamping force(static)	N	2400		6800	
	Tool release pressure	Bar	Air > /oil60–80		Air > /oil60–80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	2		2	
	Tool detection		S		S	
Options	External coolant		–		–	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spind

Water-Cooling



HFS/HCS Series

Specifications	Type		150(HSK–E50)		150(HSK–A50)	
			HCS–150g	HCS–150m	HCS–150g	HCS–150m
Model	Total length	mm	481/529		481/529	
	Approx.weight	kg	50		50	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		24000	30000	24000	30000
Motor	Number of pole	pole	4		4	
	Voltage	V	220		220	
	Max current (200V/380V)	A	49		49	
	Max.frequency	Hz	1000		1000	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	11		11	
	Torque S1 100% / S6 60%(T)	N.m	15		15	
	at speed (n0)	1/min	7000		7000	
Clamping System	Front bearing size	mm	Φ55		Φ55	
	Taper size		HSK–E50		HSK–A50	
	Drive dogs		–		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	11000		11000	
	Tool release pressure	Bar	60/80		60/80	
Equipment	Taper blow out(cleaning)	Bar	6		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –150–80L

Water-Cooling





EBS/EDS Series

Specifications \ Type			150L(SK–40)–F		150L(HSK–A63)–F	
			HFS–150g	HFS–150m	HCS–150g	HCS–150m
Model	Total length	mm	494/549		494/549	
	Approx.weight	kg	54		54	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	24000
Motor	Number of pole	pole	4		4	
	Voltage	V	220		220	
	Max current (200V/380V)	A	49		49	
	Max.frequency	Hz	1000		1000	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	20		20	
	Torque S1 100% / S6 60%(T)	N.m	31.3		31.3	
	at speed (n0)	1/min	6000		6000	
Clamping System	Front bearing size	mm	Φ65		Φ65	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive spindle –155–90L

Water-Cooling





HFS/HCS Series

Specifications \ Type			155(SK–40)–F		155(HSK–A63)–F	
			HFS–155lg	HFS–155lm	HCS–155lg	HCS–155lm
Model	Total length	mm	510/557		510/557	
	Approx.weight	kg	55		55	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	24000
Motor	Number of pole	pole	4		4	
	Voltage	V	220		220	
	Max current (200V/380V)	A	50		50	
	Max.frequency	Hz	910		910	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	15/18. 5		15/18. 5	
	Torque S1 100% / S6 60%(T)	N.m	32		32	
	at speed (n0)	1/min	3300		3300	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		128T		128T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive spindle –170–90L

Water-Cooling





EBS/EDS Series

Specifications		Type	170(SK–40)		170(HSK–A63)	
			HFS–170g	HFS–170m	HCS–170g	HCS–170m
Model	Total length	mm	581/630		581/630	
	Approx.weight	kg	76		76	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	24000
Motor	Number of pole	pole	4		4	
	Voltage	V	220		220	
	Max current (200V/380V)	A	50		50	
	Max.frequency	Hz	910		910	
	Rotation direction		CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw	15/18.5		15/18.5	
	Torque S1 100% / S6 60%(T)	N.m	32		32	
	at speed (n0)	1/min	3300		3300	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		5	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1–1.5		1–1.5	
	Cooling system	kw	4		4	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –180–112m

Water-Cooling





HFS/HCS Series

Specifications		Type	180(SK–40)		180(HSK–A63)	
			HFS–180g	HFS–180m	HCS–180g	HCS–180m
Model	Total length	mm	554.5/602.5		554.5/602.5	
	Approx.weight	kg	90		90	
	Flange mounting		Yes		Yes	
	Operation position		V/H		V/H	
Lubrication	Grease		Yes	–	Yes	–
	Oil/air lubrication		–	Yes	–	Yes
	Oil injection lubrication		–	–	–	–
	Spindle model		20000	20000	20000	20000
Motor	Number of pole	pole	6		6	
	Voltage	V	220/380		220/380	
	Max current (200V/380V)	A	112/65		112/65	
	Max.frequency	Hz	1005		1005	
	Rotation direction		CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw	28/33.5		28/33.5	
	Torque S1 100% / S6 60%(T)	N.m	100/120		100/120	
	at speed (n0)	1/min	2650		2650	
Clamping System	Front bearing size	mm	Φ70		Φ70	
	Taper size		ISO–40		HSK–A63	
	Drive dogs		S		S	
	Tool dimensions	mm	–		–	
	Static clamping force(static)	N	8000		18000	
	Tool release pressure	Bar	60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar	5		6	
	Shaft positioning(vector control)		256T		256T	
	Front seal	Bar	1~1.5		1~1.5	
	Cooling system	kw	7		7	
	Tool detection		S		S	
Options	External coolant		S		S	
	CTS		op		op	
	Bearing temperature		op		op	
	Accelerate gauge		op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –190–112M

Water-Cooling





HFS/HCS Series

Specifications			Type	190(SK–40)		190(HSK–A63)	
				HFS–190g	HFS–190m	HCS–190g	HCS–190m
Model	Total length	mm		555/603		555/603	
	Approx.weight	kg		90		90	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			20000	20000	20000	24000
Motor	Number of pole	pole		6		6	
	Voltage	V		220		220	
	Max current (200V/380V)	A		104		104	
	Max.frequency	Hz		1000		1000	
	Rotation direction			CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw		11/15		11/15	
	Torque S1 100% / S6 60%(T)	N.m		70		70	
	at speed (n0)	1/min		1500		1500	
Clamping System	Front bearing size	mm		Φ70		Φ70	
	Taper size			ISO–40		HSK–A63	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		8000		18000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		5		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		1–1.5		1–1.5	
	Cooling system	kw		4		4	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –220–132L

Water-Cooling





EBS/EDS Series

Specifications			Type	220(SK–50)		220(HSK–A100)	
				HFS–220g	HFS–220m	HCS–220g	HCS–220m
Model	Total length	mm		690/750		690/750	
	Approx.weight	kg		200		200	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			10000	10000	12000	15000
Motor	Number of pole	pole		6		6	
	Voltage	V		220		220	
	Max current (200V/380V)	A		123		123	
	Max.frequency	Hz		1000		1000	
	Rotation direction			CW		CW	
Duty	Power S1 100% / S6 60%(P)	kw		15		15	
	Torque S1 100% / S6 60%(T)	N.m		161		161	
	at speed (n0)	1/min		900		900	
Clamping System	Front bearing size	mm		Φ100		Φ100	
	Taper size			ISO–50		HSK–A100	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		18000		45000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		6		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		4		4	
	Cooling system	kw		6		6	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –250–112L

Water-Cooling



HFS–250



HFS–A100

HFS/HCS Series

Specifications			Type	250(SK–50)–F		250(HSK–A100)–F	
				HFS–250g	HFS–250m	HCS–250g	HCS–250m
Model	Total length	mm		790/845		790/845	
	Approx.weight	kg		220		220	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			10000	10000	12000	15000
Motor	Number of pole	pole		8		8	
	Voltage	V		220		220	
	Max current (200V/380V)	A		80		80	
	Max.frequency	Hz		1010		1010	
	Rotation direction			CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw		31.5/38		31.5/38	
	Torque S1 100% / S6 60%(T)	N.m		99/120		99/120	
	at speed (n0)	1/min		3000		3000	
Clamping System	Front bearing size	mm		Φ100		Φ100	
	Taper size			ISO–50		HSK–A100	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		18000		45000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		6		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		4		4	
	Cooling system	kw		7		7	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	

TAIXINKEJI

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –285–160LL

Water-Cooling





HFS/HCS Series

Specifications			Type	285(SK–50)		285(HSK–A100)	
				HFS–285g	HFS–285m	HCS–285g	HCS–285m
Model	Total length	mm		1027/1082		1027/1082	
	Approx.weight	kg		240		240	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			8000	10000	8000	10000
Motor	Number of pole	pole		4		4	
	Voltage	V		220		220	
	Max current (200V/380V)	A		125		125	
	Max.frequency	Hz		800		800	
	Rotation direction			CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw		22		22	
	Torque S1 100% / S6 60%(T)	N.m		305		305	
	at speed (n0)	1/min		600		600	
Clamping System	Front bearing size	mm		Φ100		Φ100	
	Taper size			ISO–50		HSK–A100	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		18000		45000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		6		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		4		4	
	Cooling system	kw		10		10	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –290–160LL

Water-Cooling



HFS/HCS Series

Specifications			Type	290(SK–50)		290(HSK–A100)	
				HFS–290g	HFS–290m	HCS–290g	HCS–290m
Model	Total length	mm		1027/1082		1027/1082	
	Approx.weight	kg		240		240	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			8000	10000	8000	10000
Motor	Number of pole	pole		4		4	
	Voltage	V		220		220	
	Max current (200V/380V)	A		125		125	
	Max.frequency	Hz		800		800	
	Rotation direction			CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw		22		22	
	Torque S1 100% / S6 60%(T)	N.m		305		305	
	at speed (n0)	1/min		600		600	
Clamping System	Front bearing size	mm		Φ100		Φ100	
	Taper size			ISO–50		HSK–A100	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		18000		45000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		6		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		4		4	
	Cooling system	kw		10		10	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	

Direct Drive Spindle

HIGH DUTY HIGH FREQUENCY MILLING

FANUC Built-In Motors

Direct drive electric spindle –300–160LL

Water-Cooling



HFS/HCS Series

Specifications			Type	300(SK–50)		300(HSK–A100)	
				HFS–300g	HFS–300m	HCS–300g	HCS–300m
Model	Total length	mm		1027/1082		1027/1082	
	Approx.weight	kg		240		240	
	Flange mounting			Yes		Yes	
	Operation position			V/H		V/H	
Lubrication	Grease			Yes	–	Yes	–
	Oil/air lubrication			–	Yes	–	Yes
	Oil injection lubrication			–	–	–	–
	Spindle model			8000	10000	8000	10000
Motor	Number of pole	pole		4		4	
	Voltage	V		220		220	
	Max current (200V/380V)	A		125		125	
	Max.frequency	Hz		800		800	
	Rotation direction			CW/CCW		CW/CCW	
Duty	Power S1 100% / S6 60%(P)	kw		22		22	
	Torque S1 100% / S6 60%(T)	N.m		305		305	
	at speed (n0)	1/min		600		600	
Clamping System	Front bearing size	mm		Φ100		Φ100	
	Taper size			ISO–50		HSK–A100	
	Drive dogs			S		S	
	Tool dimensions	mm		–		–	
	Static clamping force(static)	N		18000		45000	
	Tool release pressure	Bar		60~80		60~80	
Equipment	Taper blow out(cleaning)	Bar		6		6	
	Shaft positioning(vector control)			256T		256T	
	Front seal	Bar		4		4	
	Cooling system	kw		10		10	
	Tool detection			S		S	
Options	External coolant			S		S	
	CTS			op		op	
	Bearing temperature			op		op	
	Accelerate gauge			op		op	