



The Most suitable for :

- High Speed Engraving M/C
- Precision Machining Center
- Milling M/C
- Grinding M/C
- Drilling M/C



High Frequency Spindle



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 〒169-0072 倉庫：東京都新宿区大久保2-17-48 佐藤ヒルズ101
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各種スピンドル、AMB移送ローラシステム、
 工作機械の開発、輸入販売



High Performance of STA Motor Spindle.
 Patent Technology has enhanced the mechanical structure to design.
 Hybrid Bearings making for longer service life and stability in higher speed.
 Anticollision Motor Start, them also common.
 You can enjoy use 10000 rpm speed performance.
 Spindle is the core motor of High Speed Cutting Machine.
 STA spindle is truly one of the most sophisticated technology.
 We can guide up your achievement.

SPINDLE SELECTION INFORMATION



* MANUAL TOOL CHANGE (ER/SK COLLET) LUBRICATION (GREASE)

CLASS	MODEL	MOUNT DIA. (mm)	MAX SPEED (Rpm)	OUTPUT (KW)	TORQUE (Nm)	VOLTAGE (V)	COLLET
SP6	7006-M2	60	70,000	0.6	0.09	156	SK6
	9006-M2		90,000	0.8	0.09	200	
SP8	3024-M4	80	30,000	2.4	0.70	220	ER16 /SK10
	4024-M4		40,000	2.6	1.00		
	4026-M4		40,000	2.6	1.00		
	3033-M4		30,000	3.3	1.00		
	4033-M4		40,000	3.3	1.00		SK6
	4014-M2		40,000	1.4	0.55		
	5012-M4		50,000	1.2	0.38		
	6012-M4		60,000	1.2	0.38		
SP9	5533-M4	90	55,000	3.3	1.00	220/380	SK10
SP10	3032-M4	100	30,000	3.2	1.30	220/380	ER20
	3060-M4		30,000	6.0	2.40	380	
SP11	2450-M4	110	24,000	5.0	2.65	380	ER25
SP12	2495-M4	120	24,000	9.5	5.00	380	ER25
SP155	24125-M4	155	24,000	12.5	10.10	380	ER32
SC9	9034-M4	90	90,000	3.4	0.46	220/380	SK6
SC10	4532-M4	100	45,000	3.2	1.30	220	ER20

* AUTOMATIC TOOL CHANGE (HSK, BT, PC, SK) LUBRICATION (GREASE)

CLASS	MODEL	MOUNT DIA. (mm)	MAX SPEED (Rpm)	OUTPUT (KW)	TORQUE (Nm)	VOLTAGE (V)	COLLET
SP62	6012-A2	61.9	60,000	1.2	0.29	220	PC(Y) (8mm)
SP8	3023-A4	80	30,000	2.3	0.90	220	EO 20
	3033-A4-PC		30,000	3.3	1.00	220/380	
SP9	4033-A4-PC	90	40,000	3.3	1.00	220/380	HSK E25
	5033-A4-PC		50,000	3.3	1.00		
	5533-A4-PC		55,000	3.3	1.00		
	3033-A4		30,000	3.3	1.00		
	4033-A4		40,000	3.3	1.00		
	5033-A4		50,000	3.3	1.00		
SP10	5533-A4	100	55,000	3.3	1.00	220/380	HSK E32
	3033-A4-W		30,000	3.3	1.00		
	4033-A4-W		40,000	3.3	1.00		
	3032-A4		30,000	3.2	1.30		
	3035-A4		30,000	3.5	1.10		
	3035-A4 (S)		30,000	3.5	1.10		
	4035-A4		40,000	3.5	1.10		
4035-A4 (S)	40,000	3.5	1.10				
SP11	3060-A4	110	30,000	6.0	2.40	380	BT30
	2433-A4		24,000	3.3	1.30	380	
SP11F	2460-A4	110	24,000	6.0	3.30	380	HSK E40 /BT30
	2433-A4		24,000	3.3	1.30	380	
SP12	2460-A4	120	24,000	6.0	3.30	380	HSK E40 /BT30
	2495-A4 (S)		24,000	9.5	5.00	380	
SP12F	2495-A4	120	24,000	9.5	5.00	380	HSK E40 /BT30
SP155F	24125-A4	155	24,000	12.5	10.10	380	HSK E40 /BT30

TOOL HOLDER	PC(Y) COLLET	ISO 20	HSK E25	HSK E32	HSK E40	BT30
		ER16	ER16	ER16 /ER20	ER16 /ER25	ER32

ER/SK/PC COLLET(mm)	PC(Y)	ER11	ER16	ER20	ER25	ER32	SK6	SK10	SK16	
		3~10	0.5~7	1~10	1~13	1~16	2~20	0.7~6	1.75~10	2.75~16

* STA 스프린들은 Stainless Steel로 제작되어 내구성이 탁월합니다. *상기 모델들의 주요 제작 사양은 분기 버립니다.

HIGH FREQUENCY SPINDLE

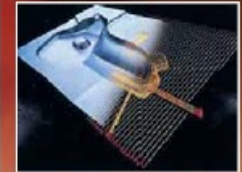
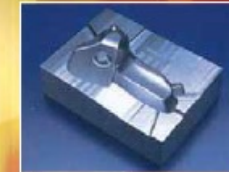


STA Inc. is a professional company that can design and produce

"High Frequency Motor Spindle".

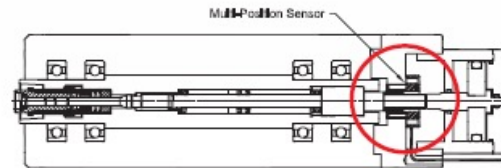
As a result of supplying our product to High Speed & Precision Processing of Asia,

We have been given a favorable reception in performance & durability respect.

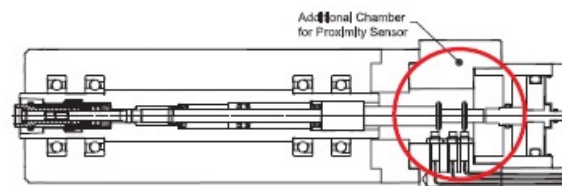


Multi - Position Sensor

No need of position adjusting, calibration
Easy to fit spindle
No need of additional chamber



STA Multi-Position Sensor



Proximity Sensor

SP6 - 7006-M2 9008-M2

High-frequency spindle



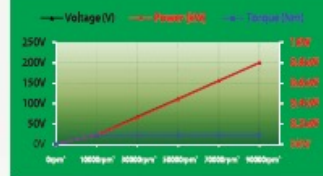
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

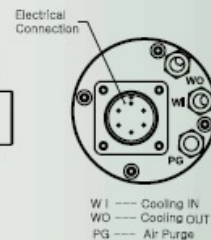
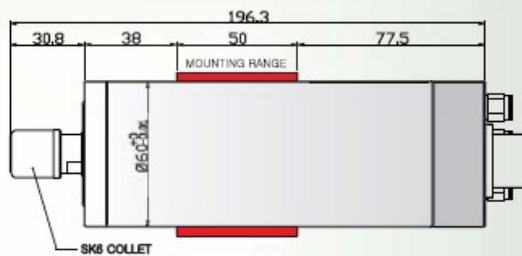
Speed	R.P.M	Max. 70,000 / 90,000
Max Frequency	Hz	Max. 1,167 / 1,500
Voltage	V	156 / 200
Output	kW	0.62 / 0.80
Torque	Nm	0.09
Current	A	3.3
Motor Poles	P	2
Collet / Tool Holder		SK6
Tool Change		Manual Tool Change
Tool Clamping Range	mm	0.7 ~ 6.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	60
Weight	kg	3.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	10,000	30,000	50,000	70,000	90,000
Frequency (Hz)	167	500	833	1,167	1,500
Power (kW)	0.09	0.26	0.44	0.62	0.80
Torque (Nm)	0.09	0.09	0.09	0.09	0.09
Voltage (V)	22	67	111	156	200
Current (A)	3.3	3.3	3.3	3.3	3.3



Dimensions



SP8 - 3024-M4 4024-M4

High-frequency spindle



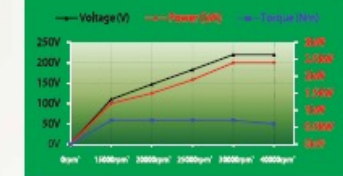
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

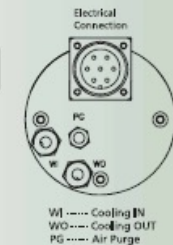
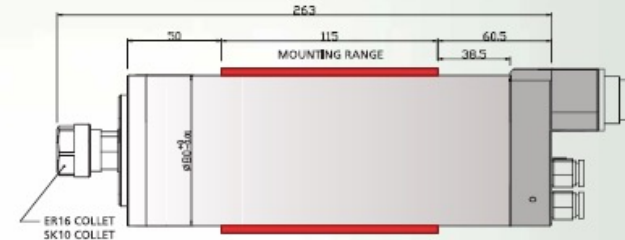
Speed	R.P.M	Max. 30,000 / 40,000
Max Frequency	Hz	Max. 1,000 / 1,334
Voltage	V	220
Output	kW	2.40
Torque	Nm	0.70
Current	A	10.0
Motor Poles	P	4
Collet / Tool Holder		ER16 / SK10
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 10.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	6.8
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	15,000	20,000	25,000	30,000	40,000
Frequency (Hz)	500	667	834	1,000	1,334
Power (kW)	1.20	1.50	1.90	2.40	2.40
Torque (Nm)	0.70	0.70	0.70	0.70	0.6
Voltage (V)	110	147	183	220	220
Current (A)	10.0	10.0	10.0	10.0	10.0



Dimensions



**SP8 -
4026-M4**
High-frequency spindle



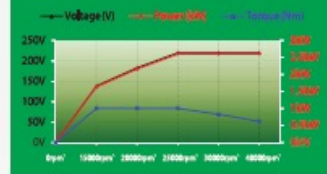
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

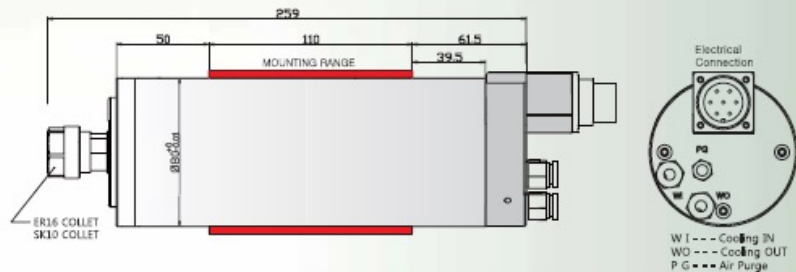
Speed	R.P.M	Max. 40,000
Max Frequency	Hz	Max. 1,334
Voltage	V	220
Output	kW	2.60
Torque	Nm	1.00
Current	A	11.7
Motor Poles	P	4
Collet / Tool Holder		ER16 / SK10
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 10.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	7.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	15,000	20,000	25,000	30,000	40,000
Frequency (Hz)	500	667	834	1,000	1,334
Power (kW)	1.63	2.16	2.60	2.60	2.60
Torque (Nm)	1.00	1.00	1.00	0.83	0.62
Voltage (V)	138	183	220	220	220
Current (A)	11.7	11.7	11.7	10.1	7.6



Dimensions



**SP8 -
3033-M4
4033-M4**
High-frequency spindle



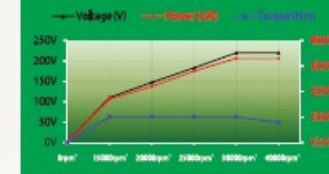
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

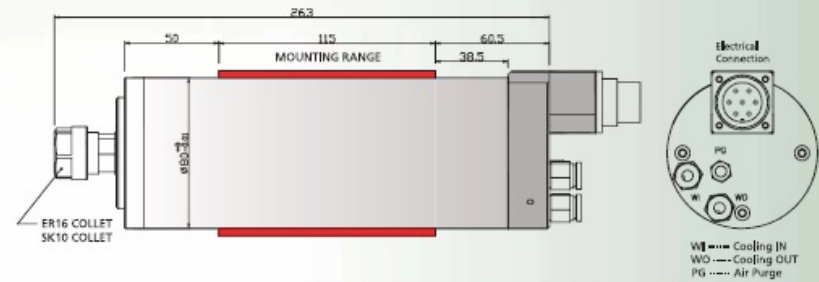
Speed	R.P.M	Max. 30,000 / 40,000
Max Frequency	Hz	Max. 1,000 / 1,334
Voltage	V	220
Output	kW	3.30
Torque	Nm	1.00
Current	A	16.0 / 13.3
Motor Poles	P	4
Collet / Tool Holder		ER16 / SK10
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 10.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	7.6
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	15,000	20,000	25,000	30,000	40,000
Frequency (Hz)	500	667	834	1,000	1,334
Power (kW)	1.70	2.20	2.80	3.30	3.30
Torque (Nm)	1.00	1.00	1.00	1.00	0.8
Voltage (V)	110	147	183	220	220
Current (A)	13.1	13.1	13.1	13.1	12.7



Dimensions



SP8 - 4014-M2

High-frequency spindle



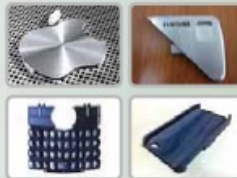
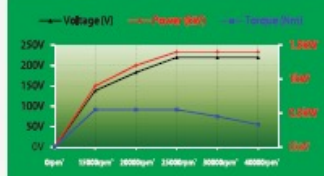
This is highly resistant to corrosion due to the material being **STAINLESS STEEL**.

Technical Specification

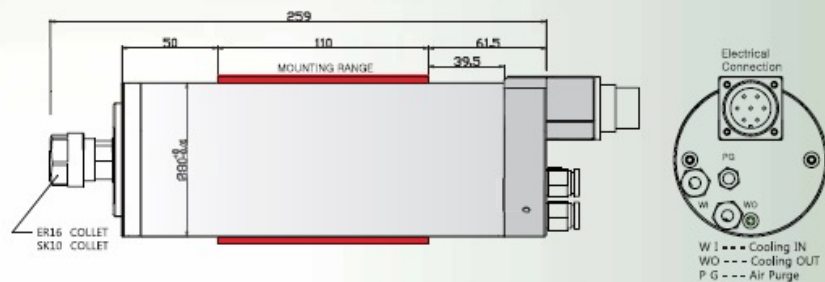
Speed	R.P.M	Max. 40,000
Max Frequency	Hz	Max. 667
Voltage	V	220
Output	kW	1.40
Torque	Nm	0.55
Current	A	4.7
Motor Poles	P	2
Collet / Tool Holder		ER16 / SK10
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 10.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	6.8
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	15,000	20,000	25,000	30,000	40,000
Frequency (Hz)	250	333	400	500	667
Power (kW)	0.90	1.20	1.40	1.40	1.40
Torque (Nm)	0.55	0.55	0.55	0.45	0.33
Voltage (V)	138	183	220	220	220
Current (A)	4.7	4.7	4.7	4.7	4.7



Dimensions



SP8 - 5012-M4 6012-M4

High-frequency spindle



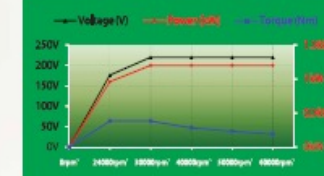
This is highly resistant to corrosion due to the material being **STAINLESS STEEL**.

Technical Specification

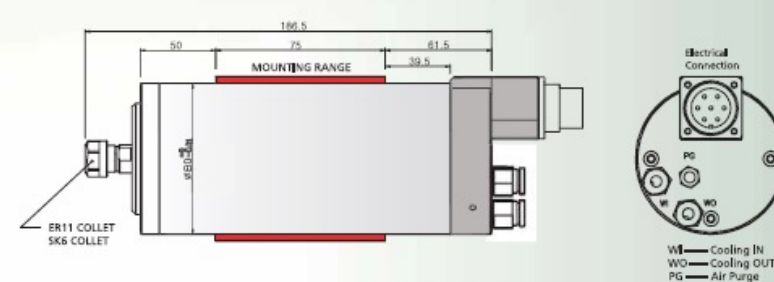
Speed	R.P.M	Max. 50,000 / 60,000
Max Frequency	Hz	Max. 1,667 / 2,000
Voltage	V	220
Output	kW	1.20
Torque	Nm	0.38
Current	A	6.2
Motor Poles	P	4
Collet / Tool Holder		SK6
Tool Change		Manual Tool Change
Tool Clamping Range	mm	0.7 ~ 6.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	6.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m)	24,000	30,000	40,000	50,000	60,000
Frequency (Hz)	800	1,000	1,334	1,667	2,000
Power (kW)	0.96	1.20	1.20	1.20	1.20
Torque (Nm)	0.38	0.38	0.28	0.23	0.19
Voltage (V)	176	220	220	220	220
Current (A)	6.2	6.2	6.2	6.2	6.2



Dimensions



SP10 - 3060 - M4

High-frequency spindle



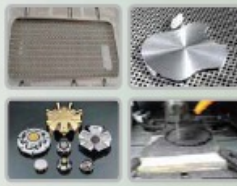
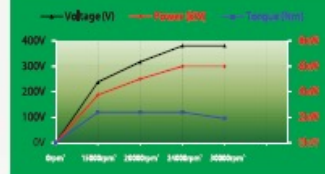
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

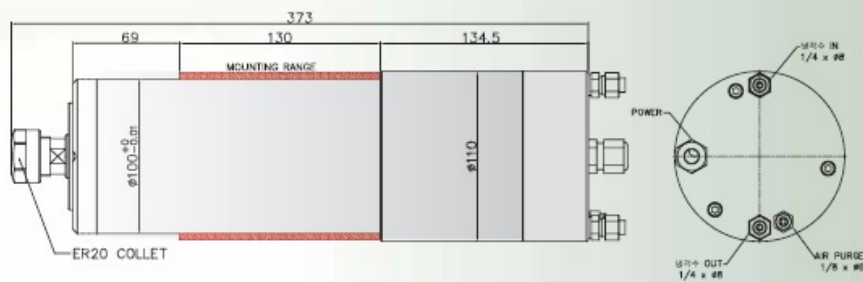
Speed	R.P.M	Max. 30,000
Max Frequency	Hz	Max. 1,000
Voltage	V	380
Output	kW	6.00
Torque	Nm	2.40
Current	A	14.3
Motor Poles	P	4
Collet / Tool Holder		ER20
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 13.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	100
Weight	kg	15.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	15,000	20,000	24,000	30,000
Frequency (Hz)	500	667	800	1,000
Power (kW)	3.75	5.00	6.00	6.00
Torque (Nm)	2.40	2.40	2.40	1.90
Voltage (V)	238	317	380	380
Current (A)	14.3	14.3	14.3	13.4



Dimensions



SP11 - 2450 - M4

High-frequency spindle



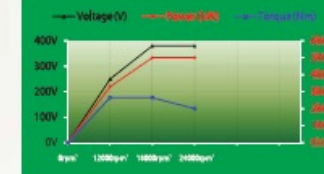
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

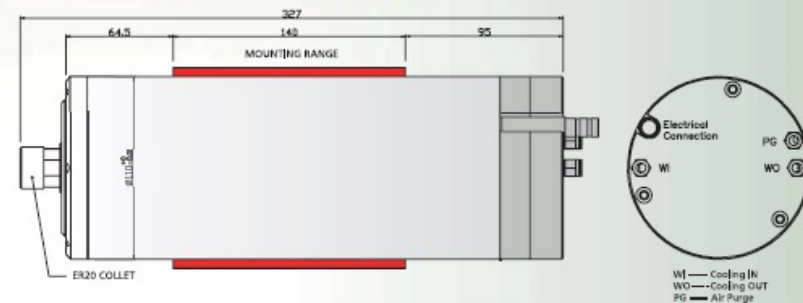
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	5.0
Torque	Nm	2.65
Current	A	13.0
Motor Poles	P	4
Collet / Tool Holder		ER20 / ER25
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1~13 / 1~16
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	110
Weight	kg	18
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000
Frequency (Hz)	400	600	800
Power (kW)	3.30	5.00	5.00
Torque (Nm)	2.65	2.65	2.00
Voltage (V)	250	380	380
Current (A)	13.0	13.0	12.0



Dimensions



**SP12 -
2495-M4**
High-frequency spindle



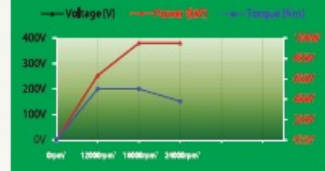
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

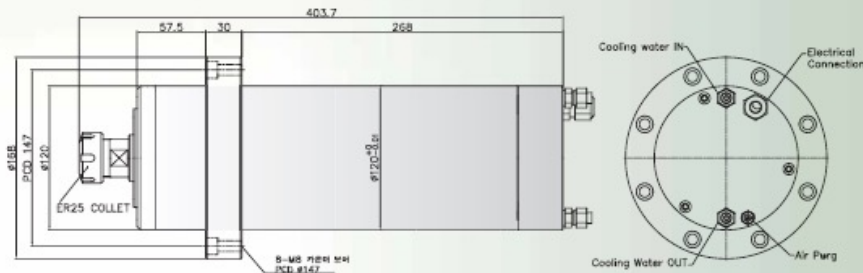
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	9.50
Torque	Nm	5.00
Current	A	20.0
Motor Poles	P	4
Collet / Tool Holder		ER25
Tool Change		Manual Tool Change
Tool Clamping Range	mm	1.0 ~ 16.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	120
Weight	kg	26.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000	
Frequency (Hz)	400	600	800	
Power (kW)	6.30	9.50	9.50	
Torque (Nm)	5.00	5.00	3.80	
Voltage (V)	253	380	380	
Current (A)	20.0	20.0	18.0	



Dimensions



**SP155 -
24125-M4**
High-frequency spindle



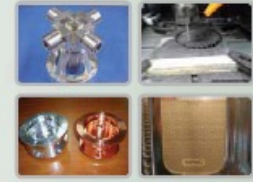
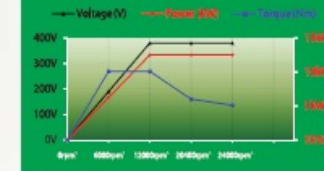
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

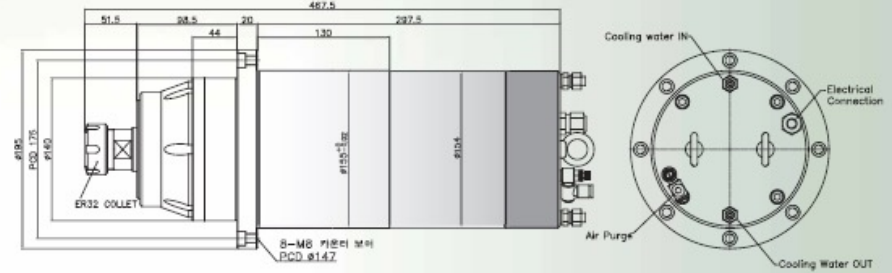
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	12.50
Torque	Nm	10.10
Current	A	26.0
Motor Poles	P	4
Collet / Tool Holder		ER32
Tool Change		Manual Tool Change
Tool Clamping Range	mm	2.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	155
Weight	kg	38.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	6,000	12,000	20,400	24,000	
Frequency (Hz)	200	400	680	800	
Power (kW)	6.25	12.50	12.50	12.50	
Torque (Nm)	10.10	10.10	6.00	5.10	
Voltage (V)	190	380	380	380	
Current (A)	26.0	26.0	25.0	25.0	



Dimensions



**SP62 -
6012-A2**
High-frequency spindle



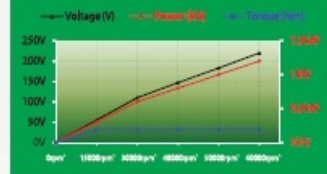
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

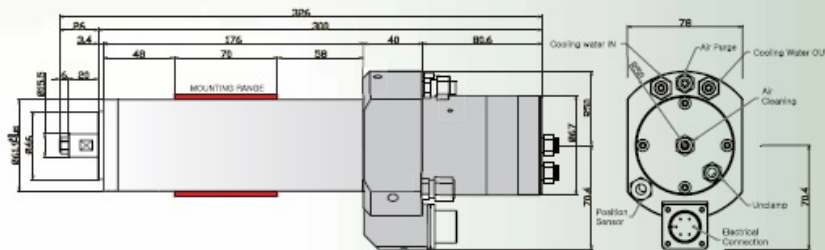
Speed	R.P.M	Max. 60,000
Max Frequency	Hz	Max. 1,000
Voltage	V	220
Output	kW	1.20
Torque	Nm	0.19
Current	A	4.1
Motor Poles	P	2
Collet / Tool Holder		PC COLLET
Tool Change		Auto Tool Change
Tool Clamping Range	mm	3.0 ~ 6.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	61.9
Weight	kg	5.2
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	15,000	30,000	40,000	50,000	60,000
Frequency (Hz)	250	500	667	834	1,000
Power (kW)	0.20	0.60	0.80	1.00	1.20
Torque (Nm)	0.19	0.19	0.19	0.19	0.19
Voltage (V)	55	110	147	183	220
Current (A)	4.1	4.1	4.1	4.1	4.1



Dimensions



**SP8 -
3023-A4**
High-frequency spindle



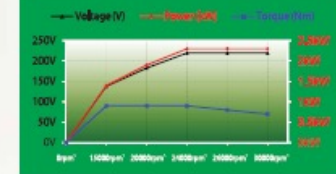
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

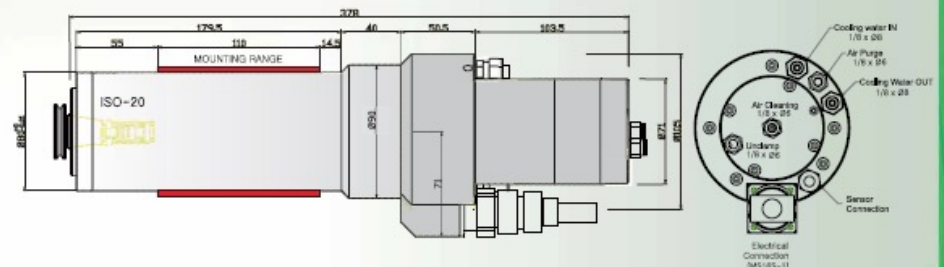
Speed	R.P.M	Max. 30,000
Max Frequency	Hz	Max. 1,000
Voltage	V	220
Output	kW	2.30
Torque	Nm	0.90
Current	A	10.0
Motor Poles	P	4
Collet / Tool Holder		ISO 20
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 10.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	80
Weight	kg	9.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	15,000	20,000	24,000	26,000	30,000
Frequency (Hz)	500	667	800	867	1,000
Power (kW)	1.40	1.90	2.30	2.30	2.30
Torque (Nm)	0.90	0.90	0.90	0.80	0.70
Voltage (V)	138	183	220	220	220
Current (A)	10.0	10.0	10.0	9.5	9.5



Dimensions



SP10 - 3035-A4 4035-A4

High-frequency spindle

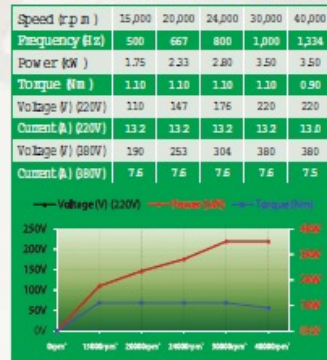


This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

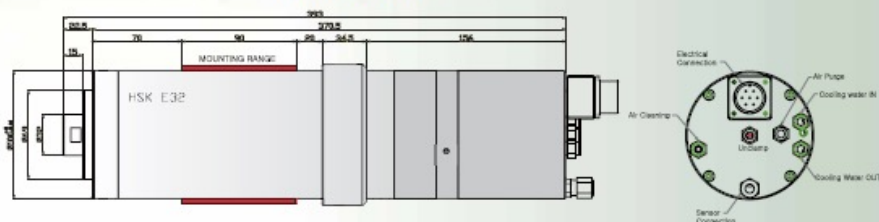
Technical Specification

Speed	R.P.M	Max. 30,000 / 40,000
Max Frequency	Hz	Max. 1,000 / 1,334
Voltage	V	220 / 380
Output	kW	3.50
Torque	Nm	1.10
Current	A	13.2 / 7.6
Motor Poles	P	4
Collet / Tool Holder		HSK E32
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 13.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	100
Weight	kg	15.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram



Dimensions



SP10 - 3035S-A4 4035S-A4

High-frequency spindle



This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

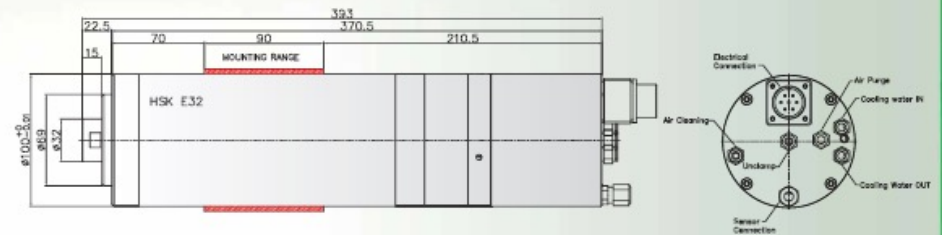
Technical Specification

Speed	R.P.M	Max. 30,000 / 40,000
Max Frequency	Hz	Max. 1,000 / 1,334
Voltage	V	220 / 380
Output	kW	3.50
Torque	Nm	1.10
Current	A	13.2 / 7.6
Motor Poles	P	4
Collet / Tool Holder		HSK E32
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 13.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	100
Weight	kg	15.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram



Dimensions



SP10-3060-A4

High-frequency spindle



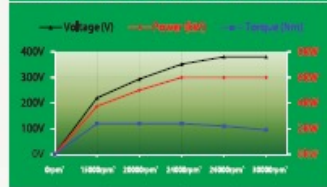
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

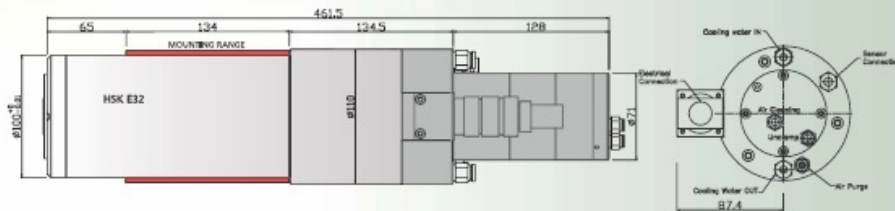
Speed	R.P.M	Max. 30,000
Max Frequency	Hz	Max. 1,000
Voltage	V	380
Output	kW	6.00
Torque	Nm	2.40
Current	A	17.5
Motor Poles	P	4
Collet / Tool Holder		HSK E32
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 13.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	100
Weight	kg	17.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	15,000	20,000	24,000	26,000	30,000
Frequency (Hz)	500	667	800	867	1,000
Power (kW)	3.75	5.00	6.00	6.00	6.00
Torque (Nm)	2.40	2.40	2.40	2.20	1.90
Voltage (V)	220	293	352	380	380
Current (A)	17.5	17.5	17.5	16.5	16.0



Dimensions



SP11-2433-A4

High-frequency spindle



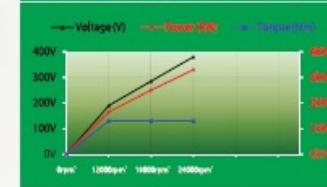
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

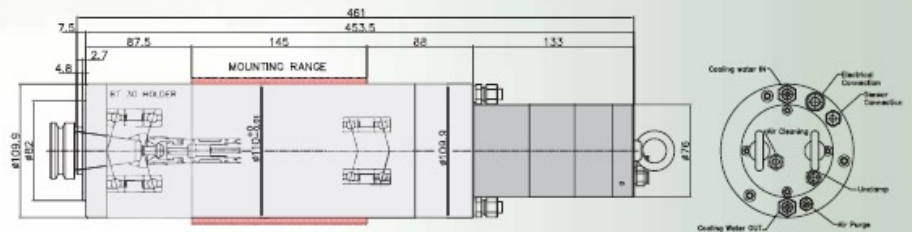
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	3.30
Torque	Nm	1.30
Current	A	8.0
Motor Poles	P	4
Collet / Tool Holder		BT 30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	110
Weight	kg	20.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000
Frequency (Hz)	400	600	800
Power (kW)	1.65	2.50	3.30
Torque (Nm)	1.30	1.30	1.30
Voltage (V)	190	285	380
Current (A)	8.0	8.0	8.0



Dimensions



**SP11 -
2460 - A4**
High-frequency spindle



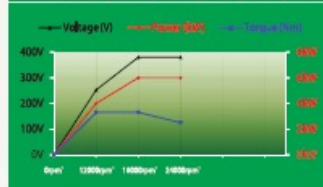
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

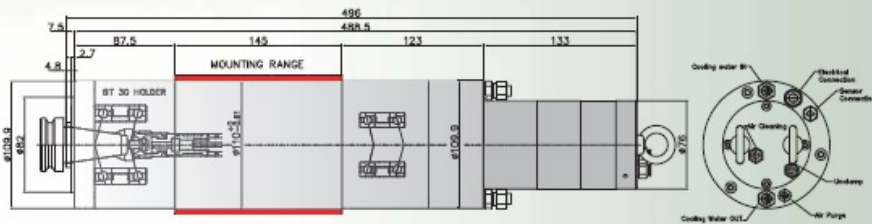
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	6.00
Torque	Nm	3.30
Current	A	13.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	110
Weight	kg	20.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000		
Frequency (Hz)	400	600	800		
Power (kW)	4.00	6.00	6.00		
Torque (Nm)	3.30	3.30	2.50		
Voltage (V)	253	380	380		
Current (A)	13.0	13.0	13.0		



Dimensions



**SP11F -
2433 - A4**
High-frequency spindle



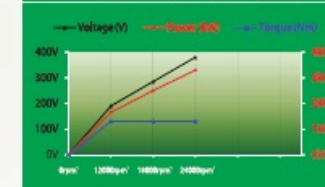
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

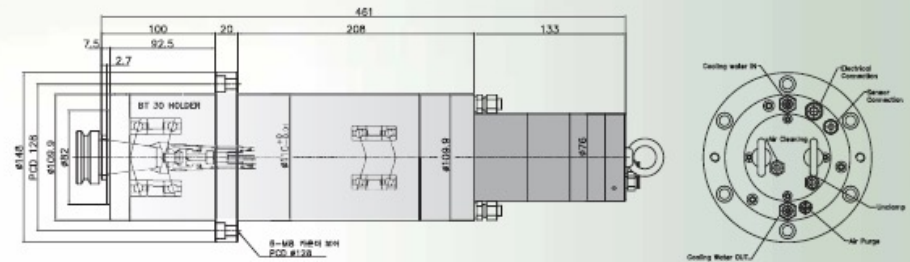
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	3.30
Torque	Nm	1.30
Current	A	8.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	110
Weight	kg	21.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000		
Frequency (Hz)	400	600	800		
Power (kW)	1.65	2.50	3.30		
Torque (Nm)	1.30	1.30	1.30		
Voltage (V)	190	285	380		
Current (A)	8.0	8.0	8.0		



Dimensions



**SP11F -
2460-A4**
High-frequency spindle



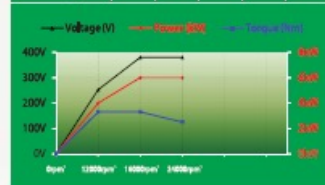
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

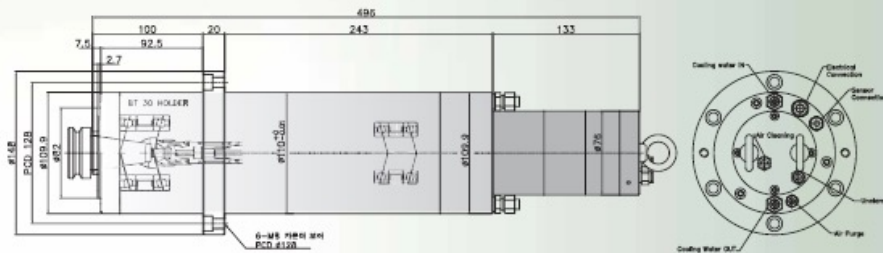
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	6.00
Torque	Nm	3.30
Current	A	13.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	110
Weight	kg	21.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000	
Frequency (Hz)	400	600	800	
Power (kW)	4.00	6.00	6.00	
Torque (Nm)	3.30	3.30	2.50	
Voltage (V)	253	380	380	
Current (A)	13.0	13.0	13.0	



Dimensions



**SP12 -
2495S-A4**
High-frequency spindle



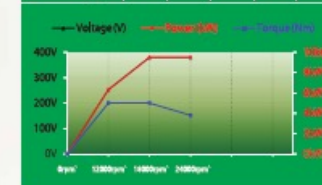
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

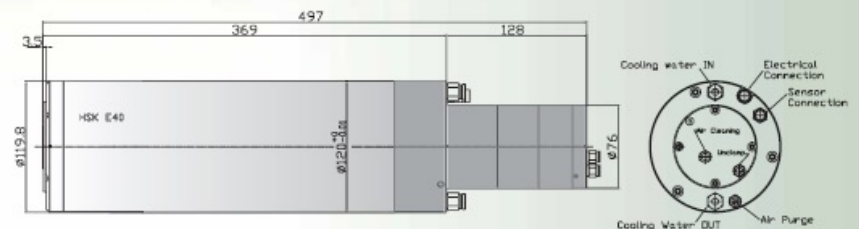
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	9.50
Torque	Nm	5.00
Current	A	20.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	120
Weight	kg	26.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000	
Frequency (Hz)	400	600	800	
Power (kW)	6.20	9.50	9.50	
Torque (Nm)	5.00	5.00	3.80	
Voltage (V)	253	380	380	
Current (A)	20.0	20.0	18.0	



Dimensions



SP12F-2495-A4

High-frequency spindle



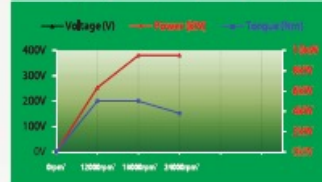
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

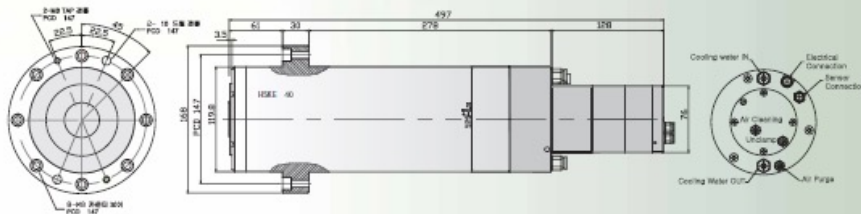
Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	9.50
Torque	Nm	5.00
Current	A	20.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	120
Weight	kg	26.5
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	12,000	18,000	24,000	
Frequency (Hz)	400	600	800	
Power (kW)	6.20	9.50	9.50	
Torque (Nm)	5.00	5.00	3.80	
Voltage (V)	253	380	380	
Current (A)	20.0	20.0	18.0	



Dimensions



SP155F-24125-A4

High-frequency spindle



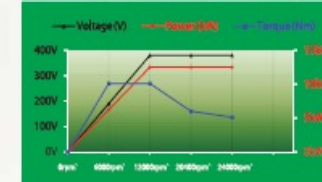
This is highly resistant to corrosion due to the material being **STAINLESS STEEL.**

Technical Specification

Speed	R.P.M	Max. 24,000
Max Frequency	Hz	Max. 800
Voltage	V	380
Output	kW	12.50
Torque	Nm	10.10
Current	A	26.0
Motor Poles	P	4
Collet / Tool Holder		BT30 / HSK E40
Tool Change		Auto Tool Change
Tool Clamping Range	mm	1.0 ~ 20.0
Cooling System		Water / Oil
Bearing(Grease)	Pcs	4
Housing Diameter	φ	155
Weight	kg	42.0
Motor Protection		Thermistor (P.T.C)
Sealing		Air
Inner Taper Run-out	μm	<2
Lubrication		Grease

Power, Torque, Speed Diagram

Speed (r.p.m.)	6,000	12,000	20,400	24,000	
Frequency (Hz)	200	400	680	800	
Power (kW)	6.25	12.50	12.50	12.50	
Torque (Nm)	10.10	10.10	6.00	5.10	
Voltage (V)	190	380	380	380	
Current (A)	26.0	26.0	25.0	25.0	



Dimensions

