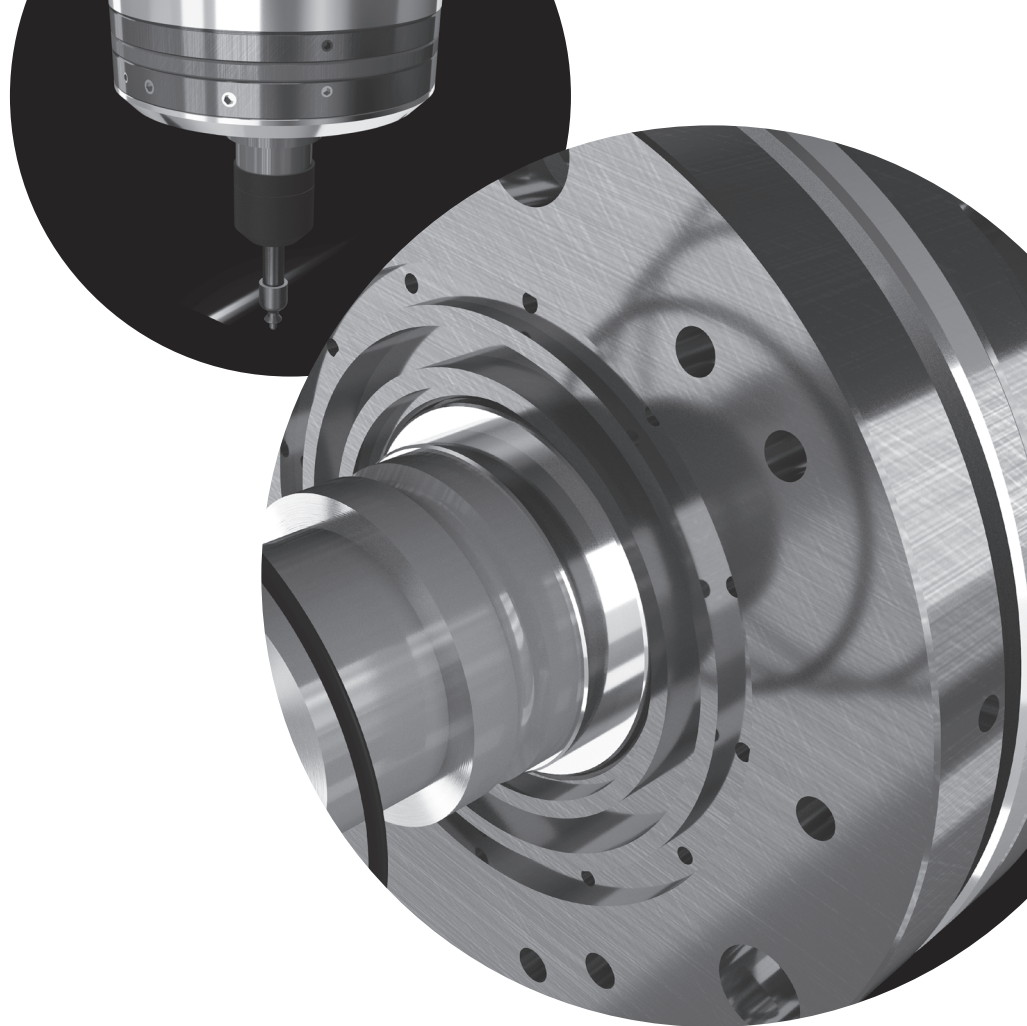
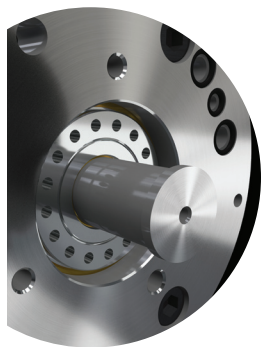


www.rps-korea.com



RPS TECHNOLOGY & RELIABILITY

Renovation / Prosperity / Satisfaction

RPS PROFILE

RPS

GUARANTEED
TECHNOLOGY

GUARANTEED
COMPANY

GUARANTEED
HUMAN

PROFILE

COMPANY NAME 株式会社 アールピーエス

ESTABLISHED 2005年6月9日

FOUNDER & CEO 李東憲(イ ドンホン)

WEBPAGE WWW.RPS-KOREA.COM

ADDRESS 大田広域市儒城区儒城大路1184番
ギル56 (新城洞484)

MAIN BUSINESS AIR BEARING SPINDLE, BALL
BEARING SPINDLE, VACUUM
CHUCK TABLE 等



RPS

(株)アールピーエスは早いスピードで変わりつつある超精密加工市場の中で核心技術であるスピンドル技術を最適化して、御社を世界的な企業に生まれ変わることをお手伝い致します。(株)アールピーエスは新たな挑戦を恐れず、技術を極める為の情熱を基に、未来価値を創出して参ります。

Spindles open new horizon

CEO Message

(株)アールピーエス 代表取締役
李東憲(イ ドンホン)



(株)アールピーエスは、エアベアリングスピンドルとボールベアリングスピンドル、多孔質セラミック真空チャックの分野に新しい未来を提示しました。

エアベアリングスピンドルと多孔質セラミック真空チャック部門で韓国最高の技術や最大の量産設備と出荷量を有している(株)アールピーエスは、世界の半導体とディスプレイ市場を先導する多くの企業より検証された技術力と長年の経験をもとに継続的な成長の道を歩いています。創立以来、変化と革新の経営、成功する経営、皆が満足する経営という経営理念の下で全社員一丸になって、最高の技術と品質で企業価値を向上するため、最大限の力を尽くして世界市場への進出の道を開きました。

アールピーエスにとって第2の跳躍のための意味深いチャレンジが今、始まりました。

これまで蓄積してきたノウハウと技術力を基に高周波スピンドル市場と工作機械用スピンドル市場、多孔質セラミック真空チャック市場において、弊社は新たな扉を開きました。私ども(株)アールピーエスは早いスピードで変わりつつある超精密加工用スピンドル市場の頂点に堂々と立とうとしています。そして各市場の核心的技術力を最大化して、この分野での世界的な企業となることを目指しています。(株)アールピーエスの全社員は、常に新たなチャレンジに恐れず、情熱をもって新技術を創出して参ります。

ありがとうございます。



History

2005	06. 09 会社設立	2014	05. 26 新社屋移転(大徳研究開発特区)
2006	05. 30 ISO9001、ISO14001認証獲得		12. 10 大田市貿易有功者表彰状受賞(大田広域市)
2008	06. 02 輸出有望中小企業指定	2015	03. 03 先端技術企業指定(未来創造科学部)
	06. 20 クリーン事業場認証(労働部)		05. 14 素材部品専門企業認証(産業通商資源部)
	08. 20 企業付設研究所認証(韓国産業技術振興協会)		06. 02 製造基盤産業核心技術開発事業課題選定 (韓国産業技術評価管理院)
2009	05. 26 中小企業技術革新開発事業先導課題選定(中小企業庁) 課題名：30万rpm級エアベアリングスピンドルの開発		06. 12 高成長(ガゼル型)企業指定(中小企業庁)
	10. 14 経営革新型中小企業(MAIN-BIZ)認証(中小企業庁)		07. 01 地域強小企業指定(中小企業庁)
2010	09. 13 有望中小企業認証(大田広域市)		09. 10 雇用優秀企業認証書授与(大田広域市長)
	11. 10 ベンチャー企業認証(技術信用保証基金)		10. 22 第9回 売上の塔受賞(大田広域市)
	11. 30 百万ドル輸出塔受賞(第47回貿易の日)	2016	12. 17 五百万ドル輸出塔受賞(第52回貿易の日)
	11. 30 知識経済部長官受賞(第47回貿易の日)		04. 30 ベトナム法人設立(ハノイ近郊バクニン市)
2011	01. 12 技術革新型中小企業(INNO-BIZ)認証(中小企業庁)		09. 28 3次年度産業革新運動成果報告大会産業部 長官表彰受賞(産業革新運動中央推進本部主催)
	03. 15 今月のエンジニアリング賞受賞(教育科学技術部長官)		09. 29 2016年国家生産性大賞産業通商資源部長官表彰受賞 (韓国生産性本部主催)
2012	05. 01 中国法人設立(深圳)	2017	09. 08 第2工場新築
	10. 16 韓国機械研究院(KIMM)Family企業選定		12. 12 国際科学ビジネスバート拠点地区(Dungok)土地契約 締結＜面積：7,652 m ² ＞
2013	10. 16 優秀資本財開発有功者褒章、大統領賞受賞(韓国機械 産業振興会)		
	11. 12 兵役特例業者選定		

RPS COMPANY



経営理念

"変化と革新の経営"

Renovation

"成功する経営"

Prosperity

"皆が満足する経営"

Satisfaction

RPSの意味

Rotation

1秒当たりの回転数を意味する

Spindle

精密かつ高速で回転するスピンドル
産業分野を象徴

Technology

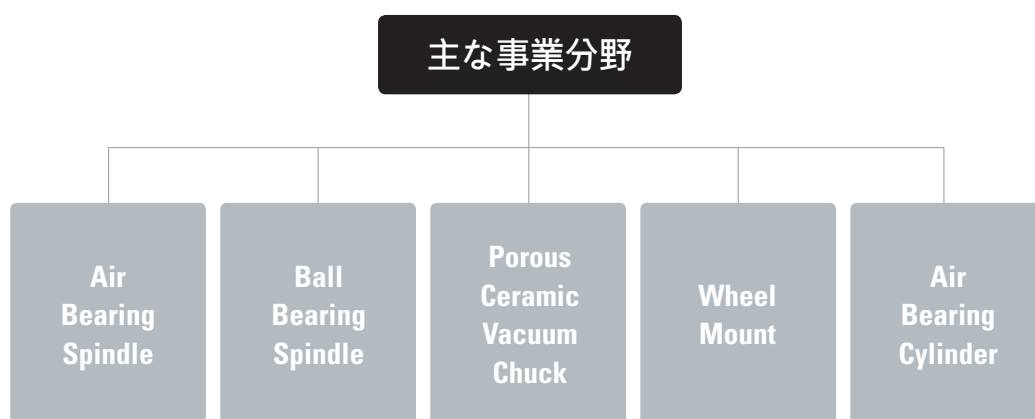
より先んじた技術で未来技術を先導する
企業を象徴

BUSINESS & RESEARCH

特許現況

- ・エアベアリングを適用した高精度バランスングマシン回転軸フレーム (特許第10-0877120)
- ・回転子一体型超高速回転軸の製造方法 (特許第 10-104-1389)
- ・ハイブリッド型静圧エアベアリング (特許第 10-1143425)
- ・温度調節型ウエハ用真空チャック製造装置 (特許第 10-1176821)
- ・エアベアリングスピンドルの異物流入防止構造 (特許第 10-1181705)
- ・超高速エアベアリングスピンドルのスラストベアリング冷却構造 (特許第 10-1183599)
- ・ストッパーが装着されたウエハダイシング用エアベアリングスピンドル (特許第 10-1256358)
- ・モールド型ウエハ製造用真空チャック (特許第 10-1360065)
- ・耐熱、耐摩耗、低摩擦特性を持つコーティング剤およびこれのコーティング方法 (特許第 10-0655366)
- ・超音波エアベアリングスピンドル (特許第 10-1604989)
- ・Coating material having heat and abrasion resistance and low friction characteristics, and coating method thereof (ZL200580051354.8)
- ・Beschichtungsmaterial, welches die Eigenschaften von Hitze-und Abrieb-Beständigkeit und niedriger Reibung aufweist, und Beschichtungsverfahren dafür (112005003627)
- ・ノズルやポケットラインを備えたラジアルエアベアリングを使用した高速エアベアリングスピンドル (特許第10 - 1809830)

KEY BUSINESS AREAS



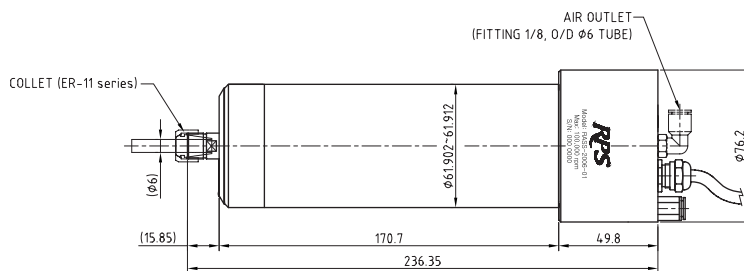
RESEARCH FIELD



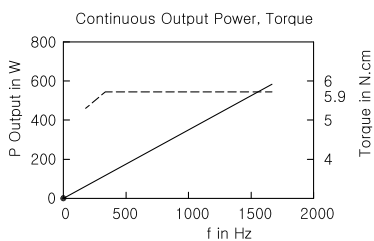
Air Bearing Spindle

Grinding, Engraving

AS100-062CM0.75



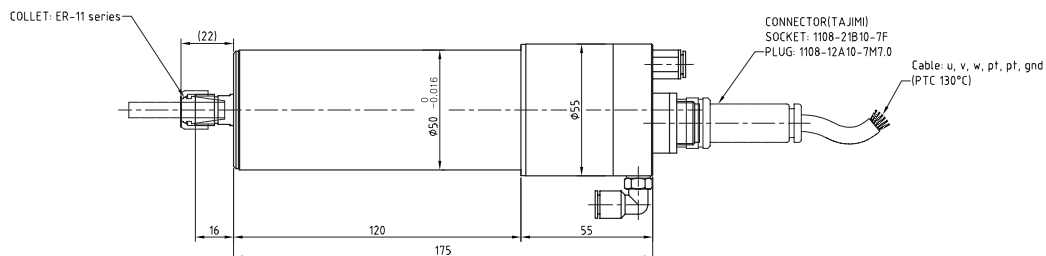
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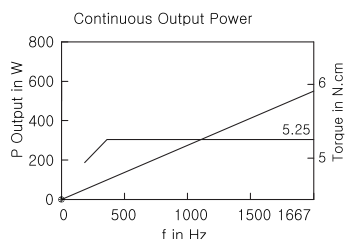
Contents			AS100-062CM0.75
			RASS 2006-01
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	50-60
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20-24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 2,100Hz
Operational speed range		rpm	20,000-100,000 (165V at 1,667Hz)
Max. power		kW	0.75 at 100,000rpm
Motor torque		N.m	0.059 (18,000-100,000rpm)
Taper runout		μm	1
Clamping torque		kgf.cm	-
Weight		kgf	3.5
Housing diameter		mm	62
Collet system			Collet: ER-11UP Nut: ER-11MS (Ø1-Ø6 Shank dia. tooling)

Air Bearing Spindle Grinding, Engraving

AS100-0505CM0.55



Specification

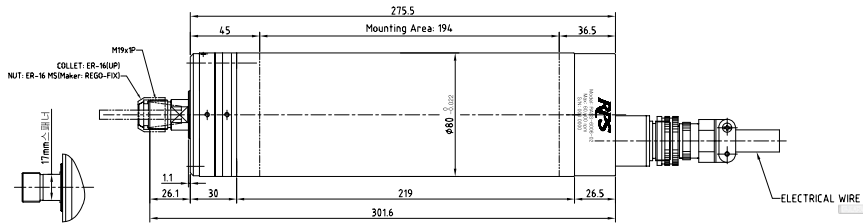


Contents			AS100-0505CM0.55
			RASS 6010-01
Input air condition	Pressure	kgf/cm ²	5.5~6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	50~60
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20~24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		200V at 1,667Hz
Operational speed range		rpm	20,000~100,000 (200V at 1,667Hz)
Max. power		kW	0.55 at 100,000rpm
Motor torque		N.m	0.053 (18,000~100,000rpm)
Taper runout		μm	1
Clamping torque		kgf.cm	-
Weight		kgf	2
Housing diameter		mm	50
Collet system			Collet: ER-11UP Nut: ER-11MS (Ø1-Ø6 Shank dia. tooling)

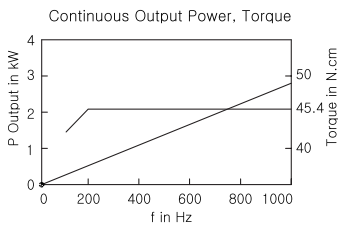
Air Bearing Spindle

Grinding, Engraving

AS060-080CM2.8

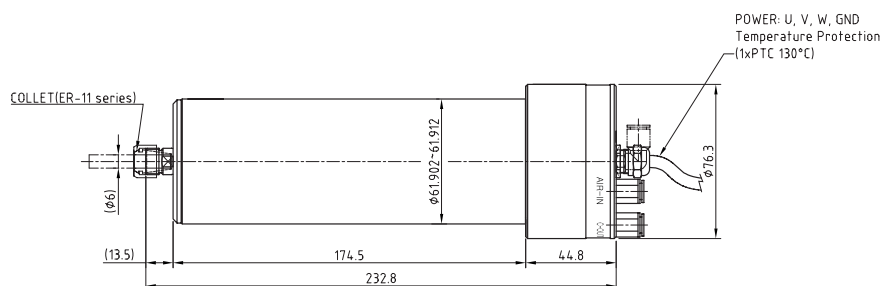


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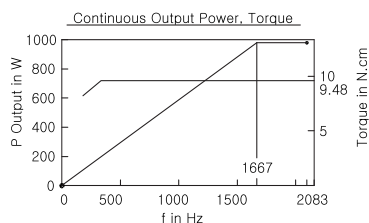


Contents			AS060-080CM2.8
			RASS 6006-02
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	60-70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20-24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 1,000Hz
Operational speed range		rpm	10,000-60,000 (220V at 1,000Hz)
Max. power		kW	2.8 at 60,000rpm
Motor torque		N.m	0.45 (12,000-60,000rpm)
Taper runout		μm	1
Clamping torque		kgf.cm	-
Weight		kgf	7.1
Housing diameter		mm	80
Collet system			Collet: ER-16UP Nut: ER-16MS (Ø1-Ø10 Shank dia. tooling)

Air Bearing Spindle Grinding, Engraving

AS125-062CM1.0-01

Specification

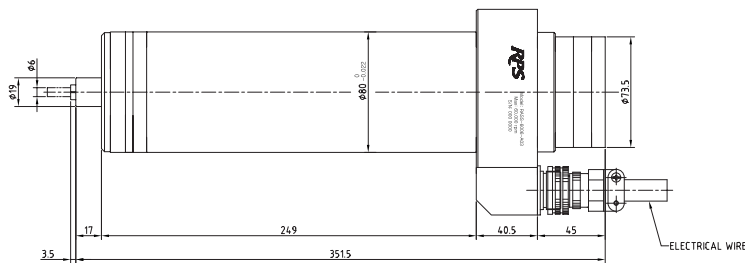


Contents			AS125-062CM1.0-01
			RASS 6012-01
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	50-60
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20-24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 2,083Hz
Operational speed range		rpm	20,000-100,000 (220V at 1,667Hz)
Max. power		kW	1 at 100,000rpm
Motor torque		N.m	0.095 (18,000-125,000rpm)
Taper runout		μm	1
Clamping torque		kgf.cm	-
Weight		kgf	3.5
Housing diameter		mm	62
Collet system			Collet: ER-11UP Nut: ER-11MS (Ø1-Ø6 Shank dia. tooling)

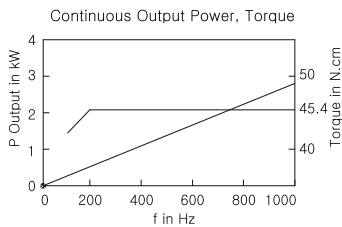
Air Bearing Spindle

Grinding, Engraving

AS060-080CA2.8



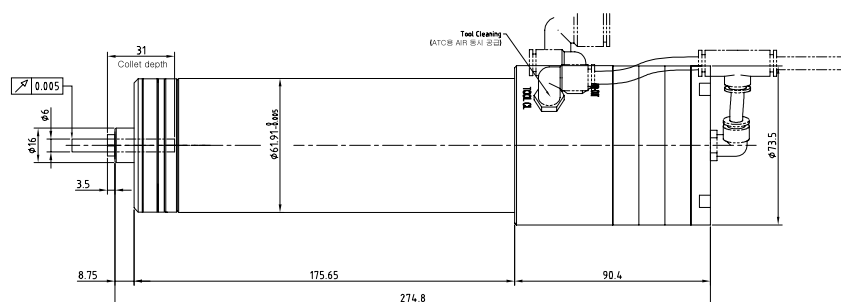
Specification



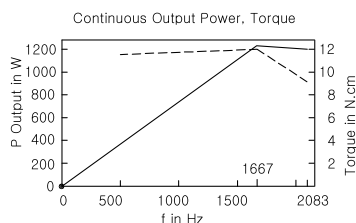
Contents			AS060-080CA2.8
			RASS 6006-A03
Input air condition	Pressure	kgf/cm ²	5.5~6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	60~70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20~24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 1,000Hz
Operational speed range		rpm	10,000~60,000 (220V at 1,000Hz)
Max. power		kW	2.8 at 60,000rpm
Motor torque		N.m	0.45 (12,000~60,000rpm)
Taper runout		μm	1
Clamping torque		kgf.cm	45
Weight		kgf	8.3
Housing diameter		mm	80
Collet system			ATC (Ø6 Shank dia. tooling)

Air Bearing Spindle Grinding, Engraving

AS125-062CA1.2



Specification

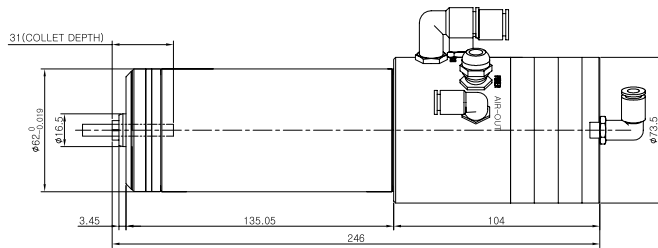


Contents			AS125-062CA1.2
			RASS 6012-A10B
Input air condition	Pressure	kgf/cm ²	5.5~6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	60~70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20~24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 2,083Hz
Operational speed range		rpm	20,000~125,000 (220V at 1,667Hz)
Max. power		kW	1.2 at 100,000rpm
Motor torque		N·m	0.12 (18,000~125,000rpm)
Taper runout		μm	1
Clamping torque		kgf·cm	45
Weight		kgf	4.7
Housing diameter		mm	62
Collet system			ATC (Ø6 Shank dia. tooling)

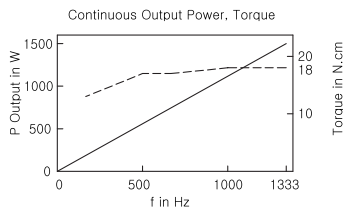
Air Bearing Spindle

Grinding, Engraving

AS080-062CA1.5



Specification

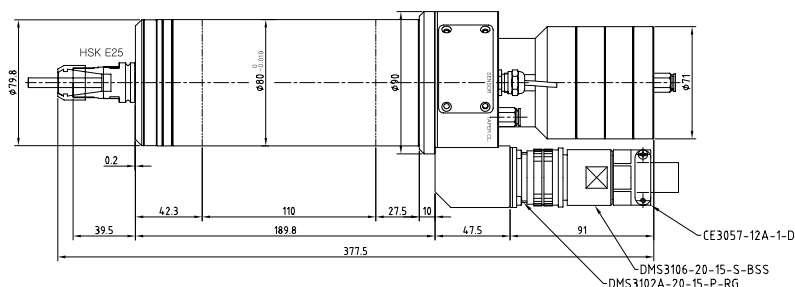


Contents			AS080-062CA1.5
Input air condition	Pressure	kgf/cm ²	5.5~6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	60
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20~24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 1,333Hz
Operational speed range		rpm	10,000-80,000 (162V at 1,333Hz)
Max. power		kW	1.5 at 80,000rpm
Motor torque		N·m	0.18 (30,000-80,000rpm)
Taper runout		μm	1
Clamping torque		kgf·cm	45
Weight		kgf	3.8
Housing diameter		mm	62
Collet system			ATC (Ø6 Shank dia. tooling)

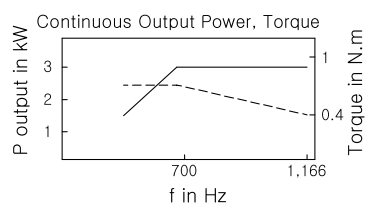
Air Bearing Spindle

Grinding, Engraving

AS070-080H2A3.0



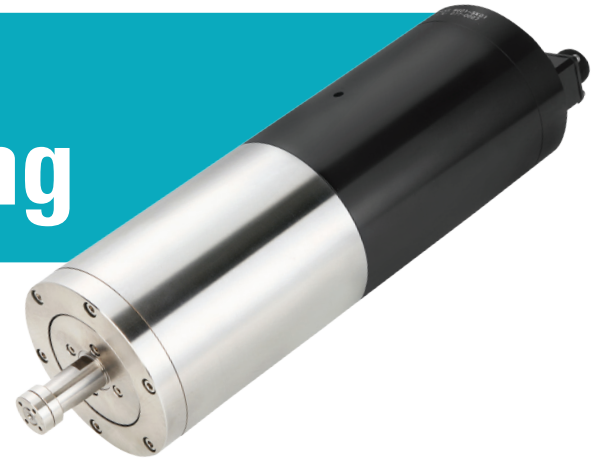
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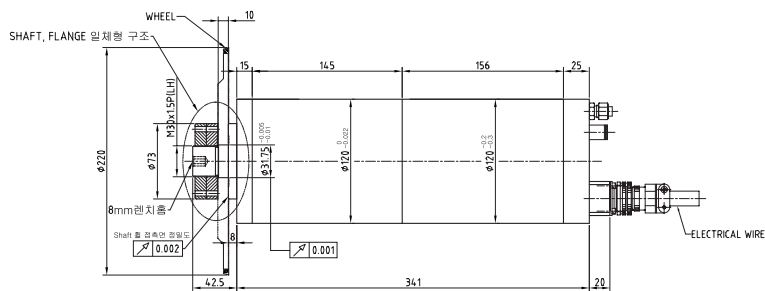
Contents			AS070-080H2A3.0
			RASS 6007-A21
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	63-77
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20-24
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 1,166Hz
Operational speed range	rpm		20,000-70,000
Max. power	kW		3.0 at 40,000rpm
Motor torque	N·m		0.72 (21,000 ~ 40,000rpm)
Taper runout	μm		1
Clamping torque	kgf·cm		45
Weight	kgf		11.5
Housing diameter	mm		80
Collet system			HSK-E25

Air Bearing Spindle

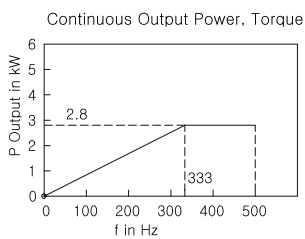
Grinding, Engraving



AS015-120WG2.8-02



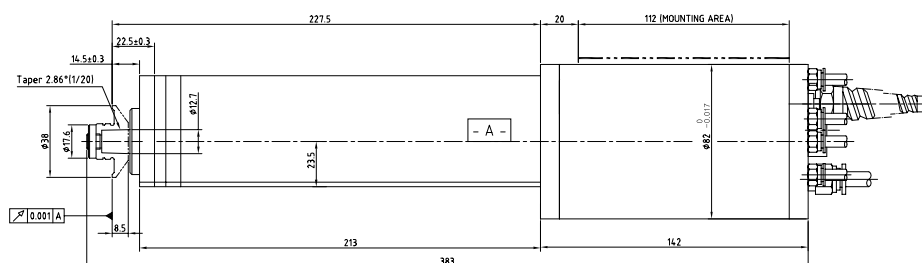
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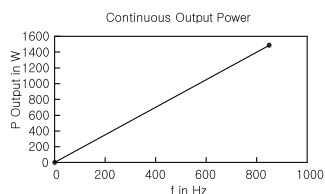
Contents			AS015-120WG2.8-02
Input air condition	Pressure	kgf/cm ²	5.5 ~ 6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	72 ~ 88
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20 ~ 24
Motor type	Phase		3
	Pole		4
	Type		AC induction
	V at Hz		220V at 500Hz
Operational speed range		rpm	3,000-10,000
Max. power		kW	2.8 at 10,000rpm
Motor torque		N·m	2.7(2,000~10,000rpm)
Taper runout		μm	1
Clamping torque		kgf·cm	-
Weight		kgf	19.2
Housing diameter		mm	120
Collet system			Wheel type

Air Bearing Spindle Dicing

AS050-082W06M1.5

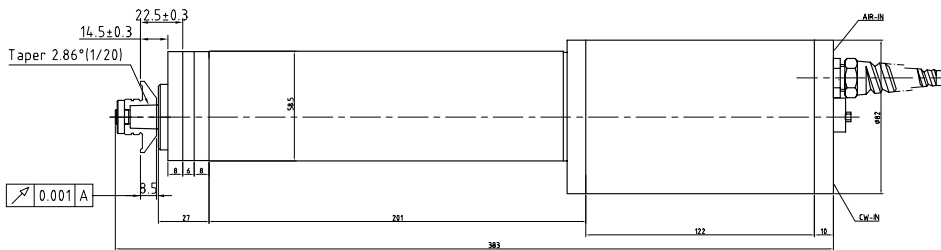


Specification

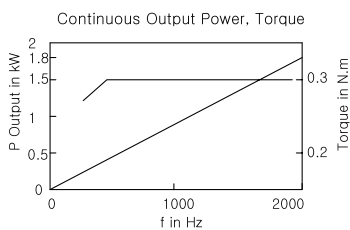


Contents			AS050-082W06M1.5
			RASS 5005-06
Input air condition	Pressure	kgf/cm ²	5.5~6.5
	Temperature	°C	20
	Filter	μm	0.5~0.1
	Air consumption	l/min	60~70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2.0
	Temperature	°C	17~19
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		200V at 833Hz
Operational speed range	rpm		10,000~50,000
Max. power	kW		1.5 at 50,000rpm
Motor torque	N·m		0.29 (50,000rpm)
Taper runout	μm		1
Weight	kgf		11.5
Housing diameter	mm		82
Shaft taper	°		2.86

Air Bearing Spindle Dicing

AS050-082W06MB1.8

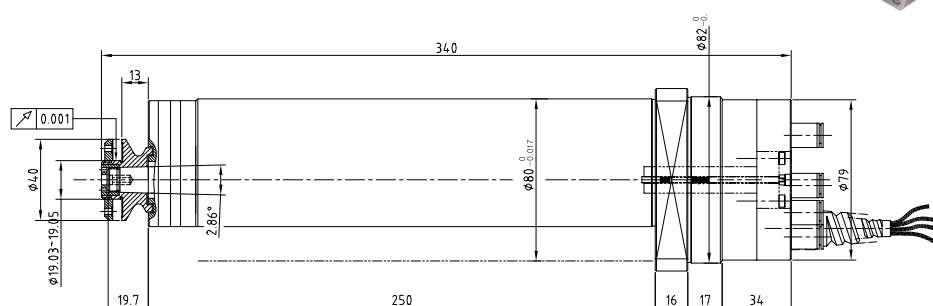
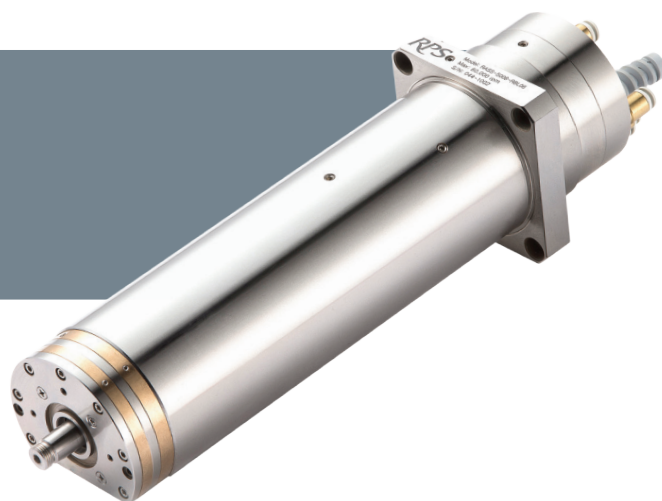
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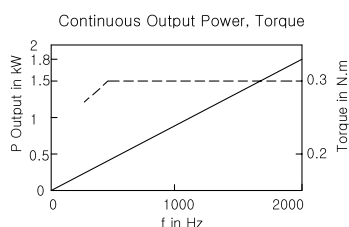
Contents			AS050-082W06MB1.8
			RASS 5005-BL06
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	60-70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2.0
	Temperature	°C	17-19
Motor type	Phase		3
	Pole		4
	Type		BLDC(Hall sensor)
	V at Hz		200V at 1,666Hz
Operational speed range		rpm	10,000-50,000
Max. power		kW	1.8 at 50,000rpm
Motor torque		N·m	0.30 (15,000-50,000rpm)
Taper runout		μm	1
Weight		kgf	11.5
Housing diameter		mm	82
Shaft taper		°	2.86

Air Bearing Spindle Dicing

AS060-082W06MB1.8-FM



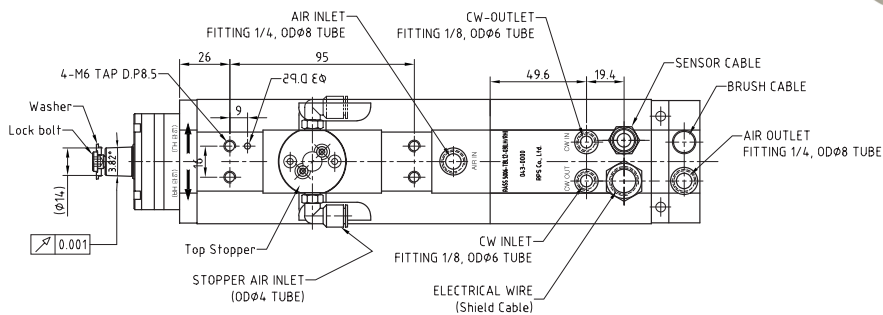
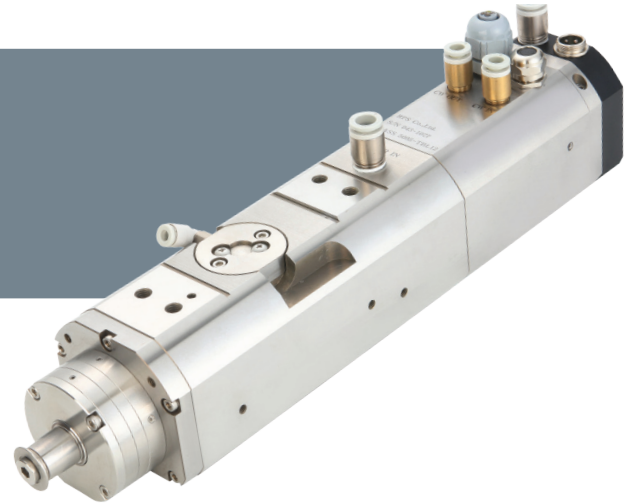
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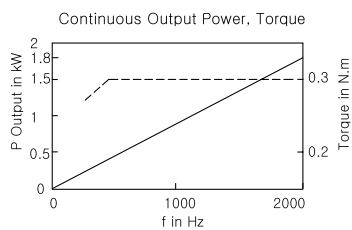
Contents			AS060-082W06MB1.8-FM
			RASS 5006-RBL06
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	60-70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2.0
	Temperature	°C	17-19
Motor type	Phase		3
	Pole		4
	Type		BLDC(Hall sensor)
	V at Hz		220V at 2,000Hz
Operational speed range	rpm		10,000-60,000
Max. power	kW		1.8 at 60,000rpm
Motor torque	N.m		0.30 (15,000-60,000rpm)
Taper runout	μm		1
Weight	kgf		10.5
Housing diameter	mm		80
Shaft taper	°		2.86

Air Bearing Spindle Dicing

AS060-064W12MB2.4-TMHS



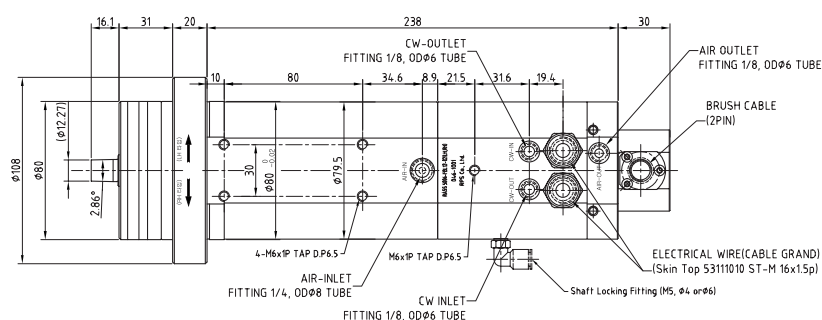
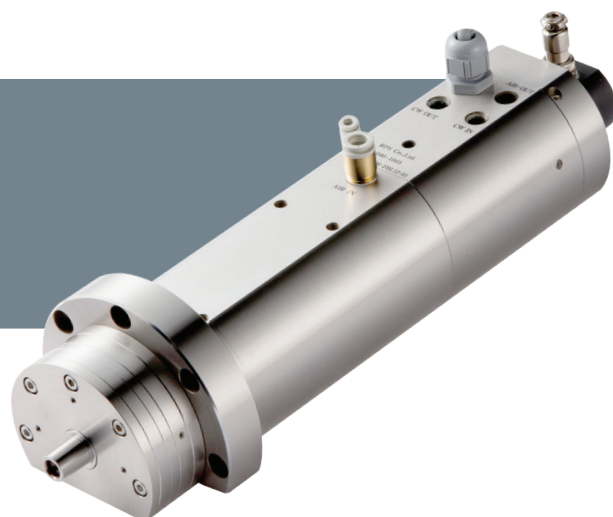
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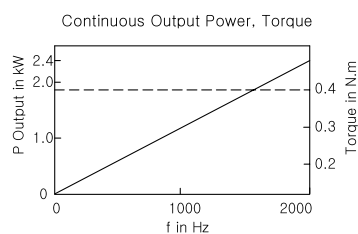
Contents			AS060-064W12MB2.4-TMHS
			RASS 5006-TBL12-03
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	60-70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2.0
	Temperature	°C	17-19
Motor type	Phase		3
	Pole		4
	Type		BLDC(Hall sensor)
	V at Hz		185/220V at 2,000Hz
Operational speed range		rpm	10,000-60,000
Max. power		kW	1.8/2.4 at 60,000rpm
Motor torque		N.m	0.3/0.4 (15,000-60,000rpm)
Taper runout		μm	1
Weight		kgf	6.4
Housing diameter		mm	64x56.5
Shaft taper		°	3.82

Air Bearing Spindle Dicing

AS060-080W12MB2.4-FMHS



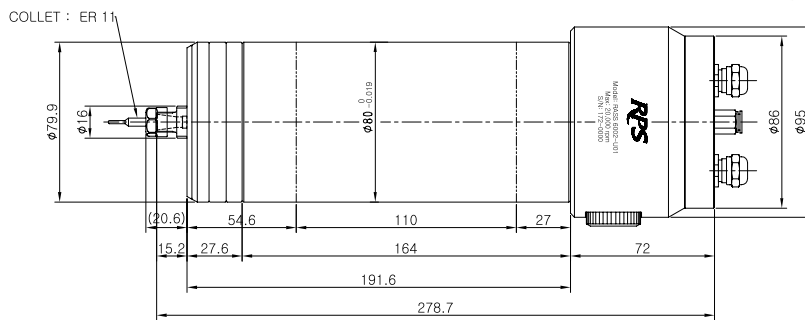
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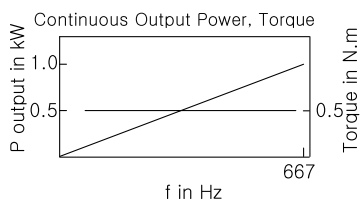
Contents			AS060-080W12MB2.4-FMHS
			RASS 5006-FBL12-02
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	60-70
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	17-19
Motor type	Phase		3
	Pole		4
	Type		BLDC(Hall sensor)
	V at Hz		220V at 2,000Hz
Operational speed range	rpm		10,000-60,000
Max. power	kW		2.4 at 60,000rpm
Motor torque	N.m		0.4 (15,000-60,000rpm)
Taper runout	μm		1
Weight	kgf		9
Housing diameter	mm		80
Shaft taper	°		2.86

Air Bearing Spindle Ultra Sonic

AS020-080CM1.0-U



Specification

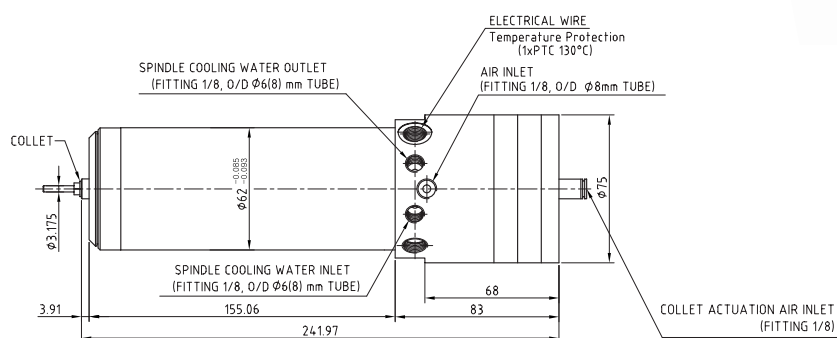


진동주파수	50 ± 4kHz
진동방향	공구 축 방향
진동진폭	3-8μm
최대초음파출력	50w
전원전압	AC100-240V
Amplifier치수	W300 x L300 x H130mm

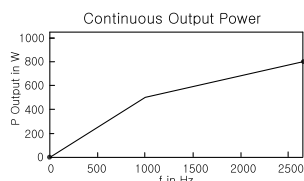
Contents			AS020-080CM1.0-U
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	50-60
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	20-24
Motor type	Phase		3
	Pole		4
	Type		AC induction
	V at Hz		220V
Operational speed range		rpm	12,000rpm with US 20,000rpm without US
Max. power		kW	1.0
Taper runout		μm	1
Motor torque		N.m	0.5
Motor protection			PTC/KTY option
Weight		kgf	13
Housing diameter		mm	80
Collet system		mm	ER11 collet

Air Bearing Spindle Drilling

AS160-062CA0.5



Specification

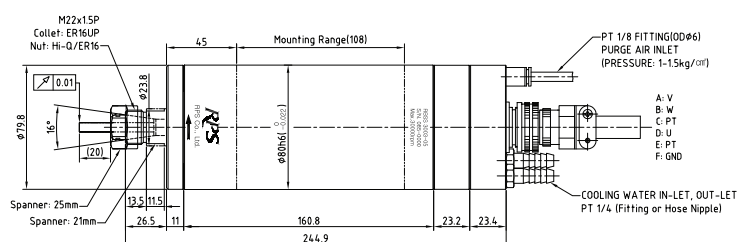


Contents			AS160-062CA0.5
			RASS 2016-02
Input air condition	Pressure	kgf/cm ²	5.5-6.5
	Temperature	°C	20
	Filter	μm	0.5-0.1
	Air consumption	l/min	40-50
Cooling	Cooling type		Water or oil
	Pressure	kgf/cm ²	3
	Cooling flow rate	l/min	2
	Temperature	°C	17-19
Motor type	Phase		3
	Pole		2
	Type		AC induction
	V at Hz		220V at 2,667Hz
Operational speed range	rpm		20,000-160,000
Max. power	kW		1 at 160,000rpm
Dynamic runout	μm		Max. 7
Weight	kgf		3.7
Housing diameter	mm		62
Collet system			Standard 3.175mm (1/8 Inch shank dia, tooling)

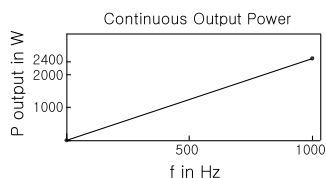
Ball Bearing Spindle

Grinding, Engraving

BS030-080CM2.4



Specification

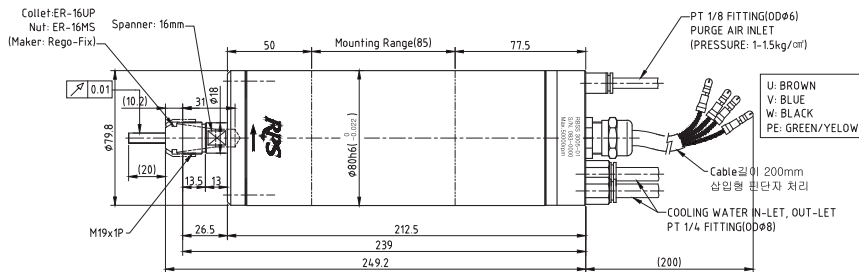


Contents		BS030-080CM2.4
		RBSS 3003-05
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Steel ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at hz	220V at 1,000Hz
operational speed range	rpm	10,000-30,000
Max. power	kW	2.4 at 30,000rpm
Motor torque	N·m	0.77(30,000rpm)
Motor protection		PTC or KTY
Taper runout	μm	1
Weight	kgf	6.5
Housing diameter	mm	80
Collet system		Collet: ER-16UP/SK10 Nut: HI-Q,ER-16MS/SK10 (Ø1-Ø10 Shank dia. tooling)

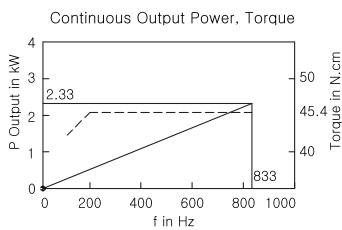
Ball Bearing Spindle

Grinding, Engraving

BS050-080CM2.33



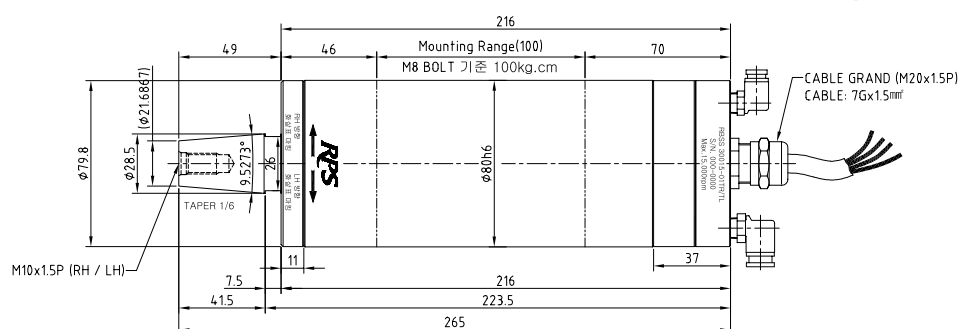
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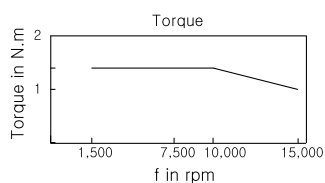
Contents		BS050-080CM2.33
		RBSS 3005-01
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	2
	Type	AC induction
	V at Hz	183V at 833Hz
Operational speed range		rpm 10,000-50,000
Max. power		kW 2.33 at 50,000rpm
Motor torque		N.m 0.45(12,000-50,000rpm)
Motor protection		PTC or KTY
Taper runout		μm 1
Weight		kgf 6.5
Housing diameter		mm 80
Collet system		Collet: ER-16UP Nut : ER-16MS (Ø1-Ø10 Shank dia. tooling)

Ball Bearing Spindle Grinding, Engraving

BS015-080TM1.5



Specification

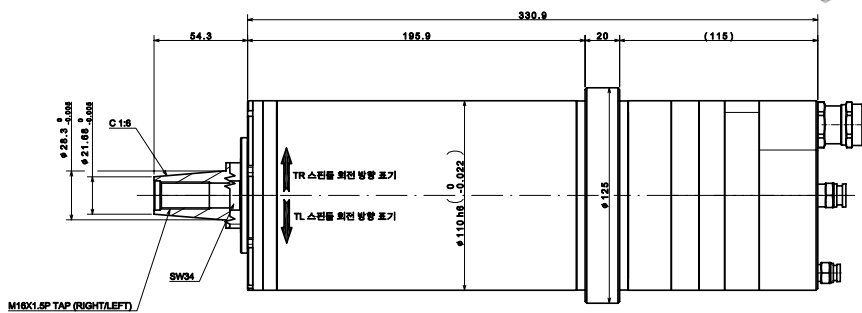


Contents		BS015-080TM1.5
		RBSS 30015-01
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 34 0.5
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	220V 500Hz
Operational speed range		rpm 3,000-15,000
Max. power		kW 1.5 at 15,000rpm
Motor torque		N·m 1.4
Motor protection		PTC or KTY
Taper runout		μm 1
Weight		kgf 6.5
Housing Diameter		mm 80
Collet system		Taper type

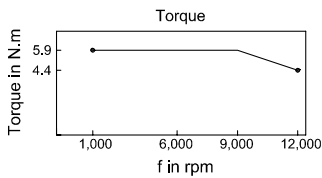
Ball Bearing Spindle

Grinding, Engraving

BS012-110TM5.5



Specification

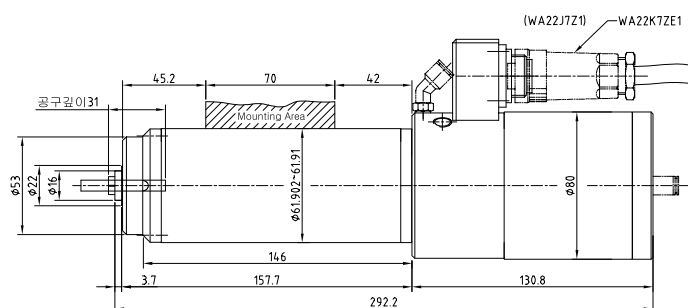


Contents		BS012-110TM5.5
		RBSS 30012-02
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 1
	Cooling flow rate	l/min 14 0.5
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	220V at 400Hz
Operational speed range		rpm 1,000-12,000
Max. power		kW 5.5 at 12,000rpm
Motor torque		N.m 5.9 (9,000rpm)
Motor protection		PTC or KTY
Taper runout		μm 1
Weight		kgf 27
Housing diameter		mm 110
Collet system		Taper type

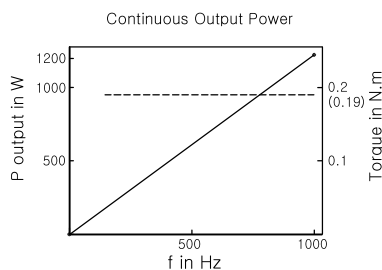
Ball Bearing Spindle

Grinding, Engraving

BS060-062CA2.0



Specification

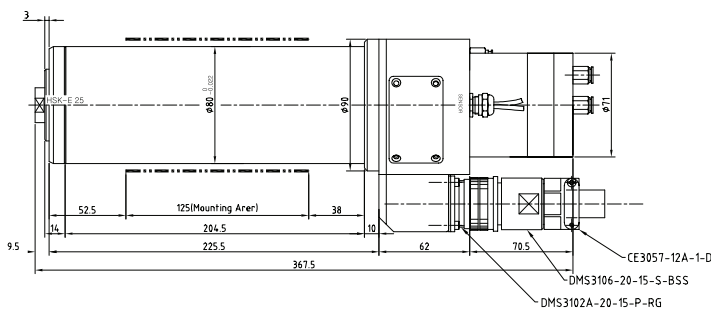


Contents		BS060-062CA2.0
		RBSS 3006-A04
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	2
	Type	AC induction
	V at Hz	220V at 1,000Hz
Operational speed range		rpm 10,000-60,000
Max. power		kW 1.2 at 60,000rpm 2.0 at 60,000rpm
Motor torque		N·m 0.32
Motor protection		PTC or KTY
Taper runout		μm 1
Weight		kgf 4.6
Housing diameter		mm 62
Collet system		ATC (Ø6 Shank dia. tooling)

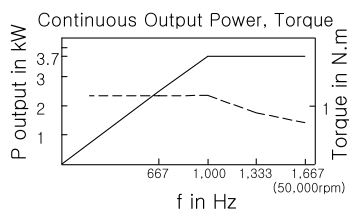
Ball Bearing Spindle

Grinding, Engraving

BS050-080H2A3.7



Specification

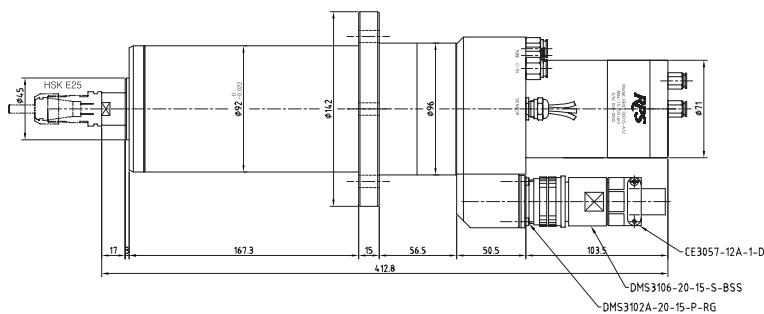


Contents		BS050-080H2A3.7
		RBSS 3005-A22
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	220V at 1,667Hz
Operational speed range	rpm	10,000-50,000
Max. power	kW	3.7 at 50,000rpm
Motor torque	N.m	1.18(30,000rpm)
Motor protection		PTC or KTY
Taper runout	μm	1
Weight	kgf	11
Housing diameter	mm	80
Collet system		ATC (HSK E-25)

Ball Bearing Spindle

Grinding, Engraving

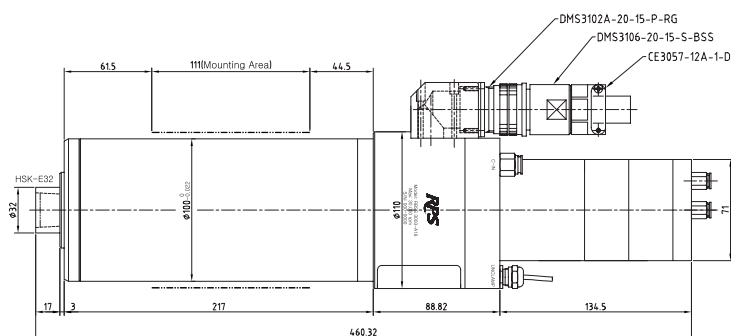
BS015-092H2A3.7



Ball Bearing Spindle

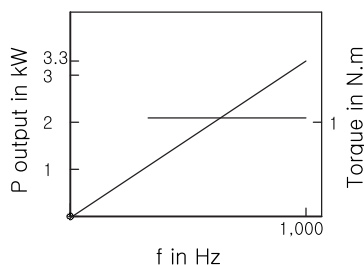
Grinding, Engraving

BS030-100H3A3.3



Specification

Continuous Output Power, Torque

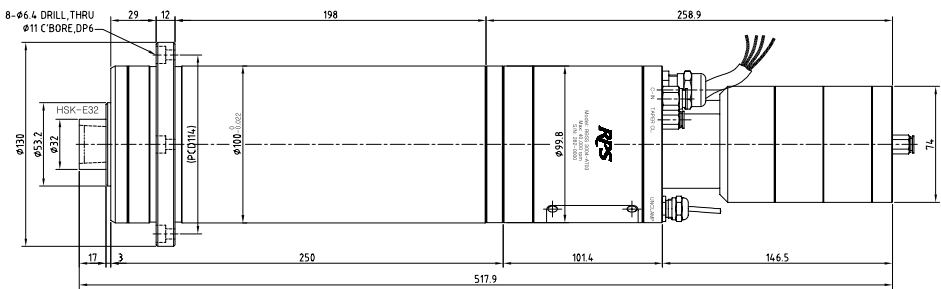


Contents		BS030-100H3A3.3
		RBSS 3003-A16
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	220V at 1,000Hz
Operational speed range		rpm 10,000-30,000
Max. power		kW 3.3 at 30,000rpm
Motor torque		N.m 1.1 (10,000-30,000rpm)
Motor protection		PTC or KTY
Taper runout		μm 1
Weight		kgf 15
Housing diameter		mm 100
Collet system		ATC (HSK E-32)

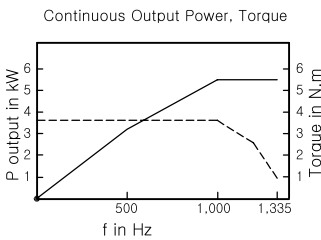
Ball Bearing Spindle

Grinding, Engraving

BS040-100H3A5.5-FMEN



Specification

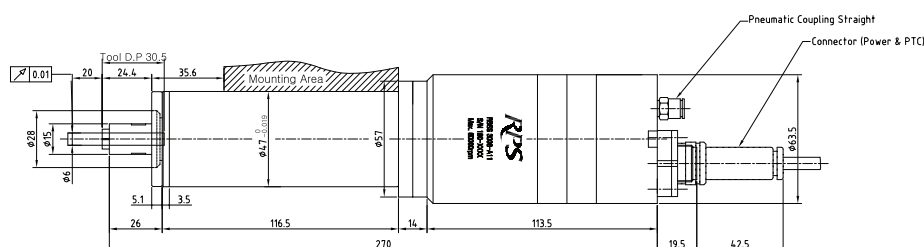


Contents		BS040-100H3A5.5-FMEN
		RBSS 3004-AT03
Cooling	Cooling type	Water or oil
	Pressure	kgf/cm ² 3
	Cooling flow rate	l/min 4
	Temperature	°C 20-24
Bearing type		Ceramic ball bearing
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	220V at 1,333Hz
Operational speed range	rpm	5,000-40,000
Max. power	kW	5.5 at 15,000rpm
Motor torque	N.m	3.6 (15,000rpm)
Motor protection		PTC or KTY
Taper runout	μm	1
Weight	kgf	15
Housing diameter	mm	100
Collet system		ATC (HSK E-32)

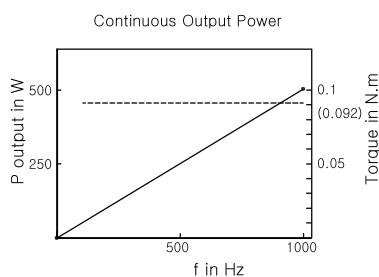
Ball Bearing Spindle

Grinding, Engraving

BS060-047CA0.55



Specification

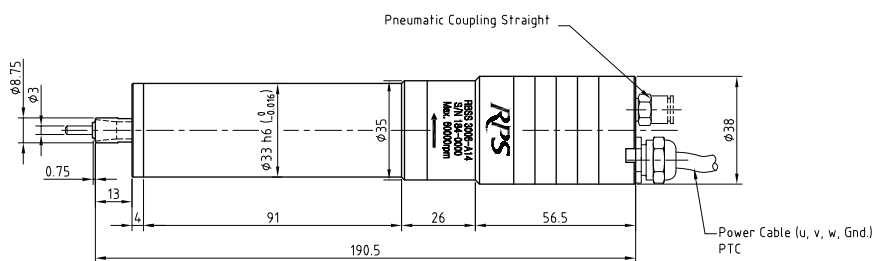


Contents		BS060-047CA0.55
		RBSS 3006-A11
Cooling type		Pressure air(1~1.5kg/cm ²) or No cooling(Air)
Bearing type	kgf/cm ²	Ball bearing
Motor type	Phase	3
	Pole	2
	Type	AC induction
	V at Hz	220V at 1,000Hz
Operational speed range	rpm	10,000~60,000
Max. power	kW	0.55 (60,000rpm)
Torque	N·m	0.092 (10,000~60,000rpm)
Taper runout	μm	1
Weight	kgf	2.5
Housing Diameter	mm	47
Collet system		ATC (Ø4, Ø6 Shank dia. tooling)

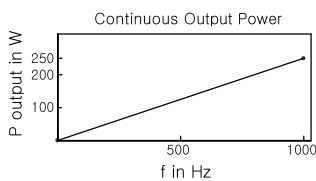
Ball Bearing Spindle

Grinding, Engraving

BS060-033CA0.25



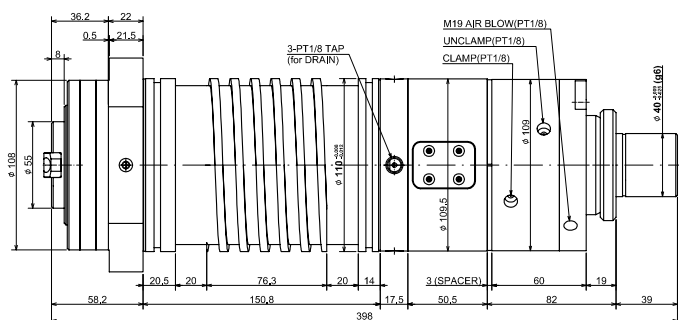
Specification



Contents		BS060-033CA0.25
		RBSS 3006-A14
Cooling type		Pressure air(1~1.5kg/cm ²) or No cooling(Air)
Bearing type		kgf/cm ² Ball bearing
Motor type	Phase	3
	Pole	2
	Type	AC induction
	V at Hz	30V at 1,000Hz
Operational speed range		rpm 10,000~60,000
Max. power		kW 0.25 at 60,000rpm
Torque		n·m 0.042 (10,000~60,000rpm)
Taper runout		μm 1.5
Weight		kgf 1
Housing diameter		mm 33
Collet system		ATC (Ø3 Shank dia. tooling)

Ball Bearing Spindle Direct Drive

BS024-110B3AD



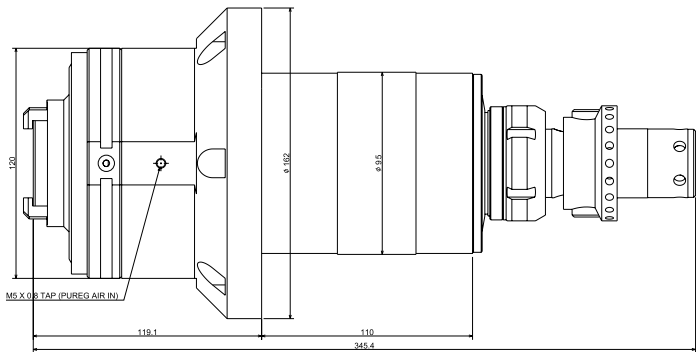
Specification

Contents		BS024-110B3AD
Max. spindle speed	rpm	24,000
Spindle taper		ISO#30, 7/24 Taper
Applicable tool type		BBT 30/MAS-403 P30T-1
Tool clamp force	N	3,000
Bearing lubrication		Grease
Bearing ID	mm	Ø45
Air curtain line		STD.
M19 air blow line		STD.
Through spindle coolant		OPT

Ball Bearing Spindle

Direct Drive

BS024-095B3AGD

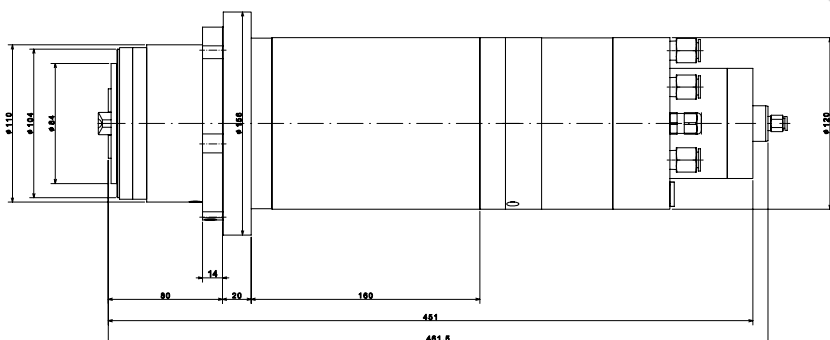


Specification

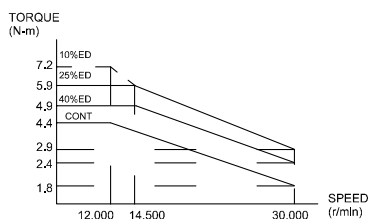
Contents		BS024-095B3AGD
Max. spindle speed	rpm	24,000
Spindle taper		ISO#30, 7/24 Taper
Applicable tool type		BT 30/MAS-403 P30T-1
Tool clamp force	N	3,000
Bearing lubrication		Grease
Bearing ID	mm	Ø45
Air curtain line		STD.
M19 air blow line		STD.
Through spindle coolant		

Ball Bearing Spindle

Built-in Motor

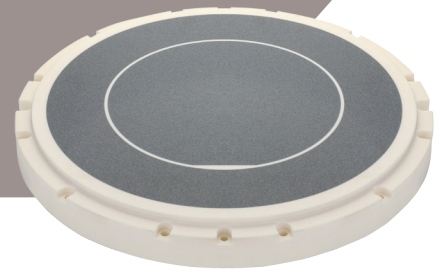
BS027-120B3A5.5

Specification



Contents		BS027-120B3A5.5
Max. spindle speed	rpm	27,000
Spindle taper		ISO#30, 7/24 Taper
Applicable tool type		BBT 30/MAS-403 P30T-1
Tool clamp force	N	3,000
Bearing lubrication		Oil-Air
Bearing ID	mm	Ø50
Air curtain line		STD.
M19 air blow line		STD.
Through spindle coolant		OPT
Motor type	Phase	3
	Pole	4
	Type	AC induction
	V at Hz	143V at 400Hz

Vacuum Chuck Table



Ceramic porous vacuum chuck table

代表使用分野

半導体

Back lap, Dicing, Laser marking process 工程

ディスプレイ

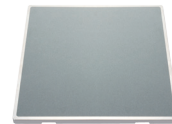
OLED process 工程

PCB

PCB Drilling Process 工程

RPSチャックテーブルの長所

- ▶ 高精度な平坦度及び回転安定性
- ▶ 帯電防止用のチャックテーブル及び様々な形状のチャックテーブル制作



製品材質

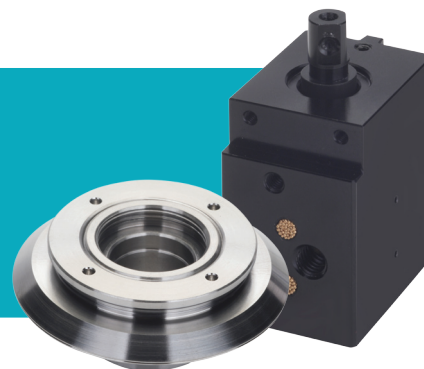
Base Material	SUS	Al	Ceramic
Porous Material	AL2O3		

基本仕様

Size	4 Inch	6 Inch	8 Inch	12 Inch
Flatness	3μm 以下	3μm 以下	5μm 以下	8μm 以下

*上記仕様の他、お客様のご要望に合わせた CUSTOMIZING可能

Wheel Mount & Air Cylinder

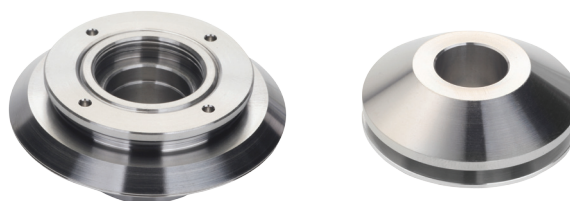


Wheel mount

基本仕様

Taper	Type	Model	Accuracy Flatness
2.86°	Hubless(Ring)	RWMR 10494-S01	1.5μm
	Hub	RWMH 1038	
3.82°	Hubless(Ring)	RWMR 10494-S02	
	Hub	RWMH 1036	

*DISCO及びACCURETECH設備に互換性あり、CUSTOMIZING可能



Air Bearing Cylinder

超精密静圧エアベアリングを適用した複合型 LINEAR AIR BEARING ACTUATORで、高応答、高精度の微小荷重コントロールとAIR BLOWER, AIR SUCTIONも可能

基本仕様

軸方向許容荷重

20N 級

30N 級



(注) カタログ記載の仕様及び寸法は予告なしに変更する場合がございます。

詳しいお問合せは弊社営業担当または下記の販売店までお願い申し上げます。