

Product Introductions

Air Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RASS 2006-01	RASS 6006-02	RASS 6006-A03
Input Air Condition	Pressure	kgf/cm ²	5.5-6.5	5.5-6.5	5.5-6.5
	Temperature	°C	20	20	20
	Filter	μm	0.5-0.1	0.5-0.1	0.5-0.1
	Air consumption	l/min	50-60	60-70	60-70
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	2	2	2
	Temperature	°C	20-24	20-24	20-24
Motor type	Phase		3	3	3
	Pole		2	2	2
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220V at 2,100Hz	220V at 1,000Hz	220V at 1,000Hz
Operational speed range	rpm	20,000-100,000 (165V at 1,667Hz)	10,000-60,000 (220V at 1,000Hz)	10,000-60,000 (220V at 1,000Hz)	
Max. power	kW	0.75 at 100,000rpm	2.8 at 60,000rpm	2.8 at 60,000rpm	
Motor torque	N·m	0.059 (18,000-100,000rpm)	0.45 (12,000-60,000rpm)	0.45 (12,000-60,000rpm)	
Taper runout	μm	1	1	1	
Clamping torque	kgf·cm	-	-	45	
Weight	kgf	3.5	7.1	8.3	
Housing Diameter	mm	62	80	80	
Collet system		Collet: ER-11UP Nut: ER-11MS (Ø1-6 Shank dia. tooling)	Collet: ER-16UP Nut: ER-16MS (Ø1-10 Shank dia. tooling)	ATC Ø6 Shank dia. Tooling	

Air Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification			
			RASS 6010-01	RASS 6012-01	RASS 6012-02	RASS 6012-A10
Input Air Condition	Pressure	kgf/cm ²	5.5-6.5	5.5-6.5	5.5-6.5	5.5-6.5
	Temperature	°C	20	20	20	20
	Filter	μm	0.5-0.1	0.5-0.1	0.5-0.1	0.5-0.1
	Air consumption	l/min	50-60	50-60	50-60	50-60
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3	3
	Cooling flow rate	l/min	2	2	2	2
	Temperature	°C	20-24	20-24	20-24	20-24
Motor type	Phase		3	3	3	3
	Pole		2	2	2	2
	type		AC Induction	AC Induction	AC Induction	AC Induction
	V at Hz		220V at 1,667Hz	220V at 2083Hz	220V at 2083Hz	220V at 2083Hz
Operational speed range	rpm	20,000-100,000 (220V at 1,667Hz)	20,000-100,000 (220V at 1667Hz)	20,000-100,000 (220V at 1667Hz)	20,000-100,000 (220V at 1667Hz)	
Max. power	kW	0.55 at 100,000rpm	1 at 100,000rpm	1 at 100,000rpm	1 at 100,000rpm	
Clamping torque	kgf-cm	-	-	-	45	
Taper runout	μm	1	1	1	1	
Motor torque	N·m	0.053 (18,000-100,000rpm)	0.095 (18,000-125,000rpm)	0.095 (18,000-125,000rpm)	0.095 (18,000-125,000rpm)	
Weight	kgf	2	3.5	3.5	4	
Housing Diameter	mm	50	62	62	62	
Collet system		Collet: ER-11UP Nut: ER-11MS (Ø1~6 Shank dia. tooling)	Collet:ER-11UP Nut:ER-11MS [[Ø1~6Shankdia. Tooling]	Collet:ER-11UP Nut:ER-11MS [[Ø1~6Shankdia. Tooling]	ATC 6mm Shank dia. Tooling	
Tool cleaning	kgf/cm ²	-	-	-	5-6	

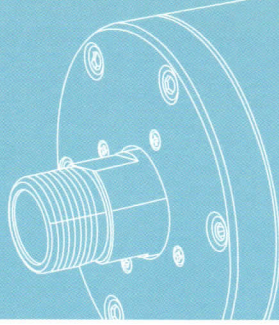
Product Introductions

Air Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RASS 6005-A02	RASS6008-A21	RASS WG01-SK01
Input Air Condition	Pressure	kgf/cm ²	5.5-6.5	5.5-6.5	5.5-6.5
	Temperature	°C	20	20	20
	Filter	μm	0.5-0.1	0.5-0.1	0.5-0.1
	Air consumption	l/min	50-60	63-77	72-88
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	2	2	2
	Temperature	°C	20-24	20-24	20-24
Motor type	Phase		3	3	3
	Pole		4	2	4
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220v at 1,334Hz	220V at 1,334Hz	200V at 600Hz
Operational speed range		rpm	10,000-40000	20,000-80,000	3,000-10,000
Max. power		kW	3.3 at 40,000rpm	3 at 40,000rpm	2.8 at 10,000rpm
Taper runout		μm	1	1	1
Motor torque		N·m	1.1 (10,000 - 30,000rpm)	0.72 (21,000 - 40,000rpm)	-
Weight		kgf	10.2	11.5	19.2
Housing Diameter		mm	90	80	120
Collet system			HSK-E25	HSK-E25	Wheel Type
Clamping force		kN	2.8	2.8	-



Ball Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RBSS 3003-05	RBSS 3004-01	RBSS 3005-01
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	4	4	4
	Temperature	°C	20-24	20-24	20-24
Purge		l/min	27-33	27-33	27-33
Bearing type			Steel Ball Bearing	Ceramic Ball Bearing	Ceramic Ball Bearing
Motor type	Phase		3	3	3
	Pole		4	4	2
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220V at 1,000Hz	220V at 1,334Hz	183V at 833Hz
Operational speed range		rpm	10,000-30,000	10,000-40,000	10,000-50,000
Max. power		kW	2.4 at 30,000rpm	3.3 at 30,000rpm	2.33 at 50,000rpm
Motor torque		N·m	0.77(30,000rpm)	0.8(40,000rpm)	0.45(12,000-50,000rpm)
Motor Protection			PTC	PTC	PTC
Taper runout		μm	1	1	1
Weight		kgf	6.5	6.5	6.5
Housing Diameter		mm	80	80	80
Collet system			Collet: ER-16UP/SK10 Nut: HI-Q,ER16-MS/SK10 (Ø1-10 Shank dia. tooling)	Collet: ER-16UP/SK10 Nut: ER-16MS/SK10 (Ø1-10 Shank dia. tooling)	Collet: ER-16UP Nut: ER-16MS (Ø1-10 Shank dia. tooling)

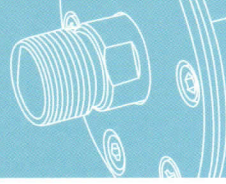
Product Introductions

Ball Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RBSS 3006-01	RBSS 3006-02	RBSS 3006-A04
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	2	4	4
	Temperature	°C	20-24	20-24	20-24
Purge (at 1.5kgf/cm ²)		l/min	36-44	36-44	36-44
Bearing type			Ceramic Ball bearing	Ceramic Ball Bearing	Ceramic Ball Bearing
Motor type	Phase		3	3	3
	Pole		2	2	2
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220V at 1,000Hz	220V at 1,000Hz	220V at 1,000Hz
Operational speed range		rpm	10,000-60,000	10,000-60,000	10,000-60,000
Max. power		kW	1.2 at 60,000rpm	0.5 at 60,000rpm	1.2 at 60,000rpm
Motor Torque		N-m	0.19 (12,000-60,000rpm)	0.086 (12,000-60,000rpm)	0.19 (12,000-60,000rpm)
Motor Protection			PTC	PTC	PTC
Taper runout		μm	1	1	1
Weight		kgf	4.6	1.6	5
Housing Diameter		mm	62	47	62
Collet system			Collet: ER-11UP Nut: ER-11MS (Ø1-6 Shank dia. tooling)	Collet: ER-11UP Nut: ER-11MS (Ø1-6 Shank dia. tooling)	ATC (Ø6 Shank dia. tooling)
Clamping Torque		kgf-cm	-	-	45



Ball Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RBSS 30015-A12	RBSS 3004-A01	RBSS 3005-A22
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	4	4	4
	Temperature	°C	20~24	20~24	20~24
Purge / Air pressure at 1.5kg/cm ²		l/min	27~33	27~33	27~33
Bearing type			Steel Ball bearing	Ceramic Ball Bearing	Ceramic Ball Bearing
Motor type	Phase		3	3	3
	Pole		4	4	4
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220v at 500Hz	220V at 1,000~1,500Hz	210V at 1,667Hz
Operational speed range		rpm	15,000	10,000~40,000	10,000~50,000
Max. power		kW	3.7 at 15,000rpm	3.3 at 30,000rpm	3.7 at 30,000rpm
Motor Torque		N·m	2.4(3,000~15,000rpm)	1.1(10,000~30,000rpm)	1.18(10,000~30,000rpm)
Motor Protection			PTC	PTC	PTC
Taper runout		μm	1	1	1
Weight		kgf	14	11.5	9.4
Housing Diameter		mm	95	90	80
Collet system			ATC (HSK E25)	ATC (HSK E25)	ATC (HSK E25)
Clamping force		kN	2.8	2.8	2.8

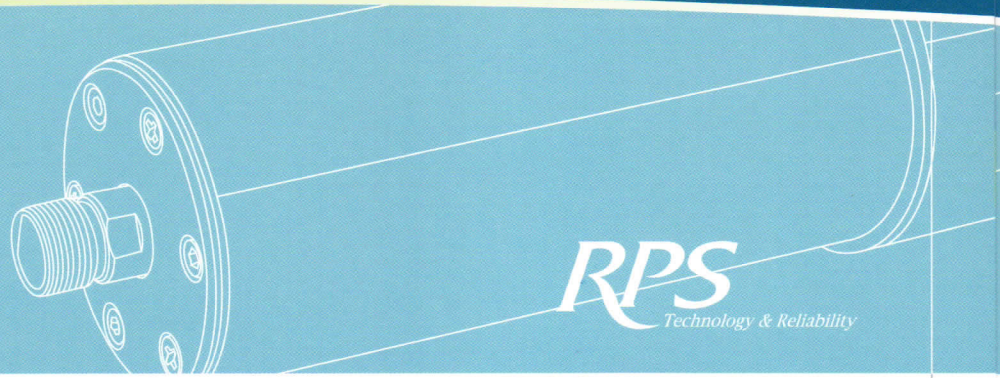
Product Introductions

Ball Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents			Specification		
			RBSS 3003-A16	RBSS 3003-AT01 (Encorder type)	RBSS3004-AT03 (Encorder type)
Cooling Fluid	Cooling type		Water or oil	Water or oil	Water or oil
	Pressure	kgf/cm ²	3	3	3
	Cooling flow rate	l/min	4	4	4
	Temperature	°C	20-24	20-24	20-24
Purge / Air pressure at 1.5kg/cm ²	l/min	27-33	27-33	27-33	
Bearing type			Ceramic ball bearing	Ceramic ball bearing	Ceramic Ball Bearing
Motor type	Phase		3	3	3
	Pole		4	4	4
	type		AC Induction	AC Induction	AC Induction
	V at Hz		220V at 1000Hz	220V at 1000Hz	220V at 1,333Hz
Operational speed range	rpm	10,000-30,000	10,000-30,000	10,000-40,000	
Max. power	kW	3.3 at 30,000rpm	3.5 at 15,000rpm	5.5 at 15,000rpm	
Torque	N·m	1.1(10,000-30,000rpm)	1.06(30,000rpm)	3.6(15,000rpm)	
Motor Protection		PTC	PTC	PTC	
Taper runout	μm	1	1	1	
Weight	kgf	15	15	17	
Housing Diameter	mm	100	100	100	
Collet system		ATC (HSK E32)	ATC (HSK E32)	ATC (HSK E32)	
Clamping force	kN	5.0	5.0	5.0	



Ball Bearing Spindle for Industrial Grinding, Engraving



► SPECIFICATION

Contents		Specification	
		RBSS 3006-A11	RBSS 3006-A14
Cooling type		Pressure Air(1~1.5kg/cm ²) Via Cooling	Pressure Air(1~1.5kg/cm ²) Via Cooling
Bearing type		Ball bearing	Ball bearing
Purge / Air pressure at 1.5kg/cm ²	l/min	65~75	40~50
Motor type	Phase	3	3
	Pole	2	2
	type	AC Induction	AC Induction
	V at Hz	220V at 1000Hz	30V at 1000Hz
Operational speed range	rpm	10,000~60,000	10,000~60,000
Max. power	kW	0.55 at 60,000rpm	0.25 at 60,000rpm
Torque	N·m	0.092 (10,000~60,000rpm)	0.042 (10,000~60,000rpm)
Motor Protection		PTC	PTC
Taper runout	μm	1	1.5
Weight	kgf	2.5	1
Housing Diameter	mm	47	33
Collet system		ATC (Ø6 Shank dia. tooling)	ATC (Ø3 Shank dia. tooling)
Clamping torque	kgf·cm	20	2.5