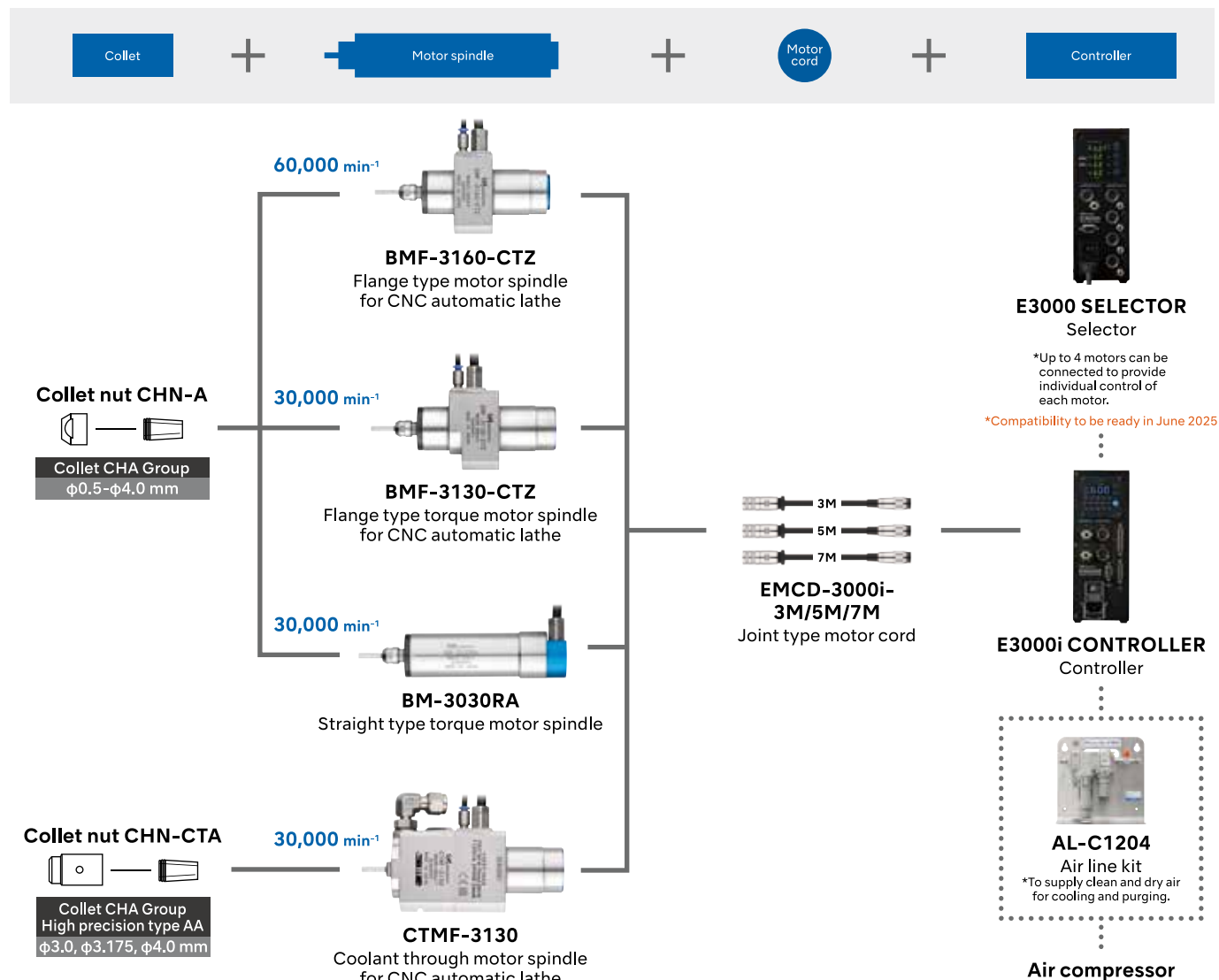


E30001



E3000i Series system chart



Features of Motor Spindle

- **Various control functions realized by electric motor technology.**

Control of rotation speed, visualization of load factor, advanced adaptability to automation and stable machining performance.

- **Ultra-short body design with a min. length of 98.4 mm.**

For mounting on a CNC automatic lathes.

- ▶ Can be mounted in a narrow machining chamber
- ▶ Recommended as a new option for rotary tools

For mounting on special purpose machines.

- ▶ Enables downsizing of the dedicated machine itself

- **Realizes higher power than ever before.**

Equivalent body size up to now: maximum output of 150 W.

- ▶ Maximum output of 350 W has been realized

Expansion of applicable processing fields.

*Compared to iSpeed3 series having the smallest body size to date at Nakanishi.

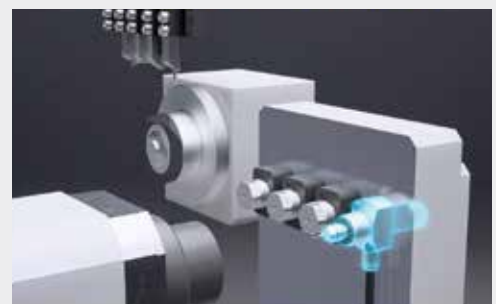
- **Provides higher durability than rotary tools and speed-increasing spindles.**

Solves the challenges encountered at work sites by minimizing vibration and heat generation, and higher durability.

What the E3000i series can achieve.

Benefits realized from mounting on a CNC automatic lathe:

1. The high speed spindles enable a high feed rate.
➔ **Increased machining efficiency**
2. The high precision motor spindles ensure a precise finish.
➔ **Increased machining accuracy**



The controllable speed ranges from 1,000 to 80,000 min⁻¹, while the 3-digit display allows speed setting in units of 200 min⁻¹.

Load meter enables setting of optimum cutting conditions.



- *For more information, please refer to the operation manual on our website.

Code No.	Motor speed	
7927	1,000–80,000 min⁻¹	
Input voltage		
AC100–240 V Without plug Multiple output power		
Max. power	Power consumption	Net weight
350 w	AC1.8 A	3.0 kg
Air consumption		
1 Motor spindle: 30 NL/min (0.2–0.3 MPa)* 2 Motor spindles: 60 NL/min (0.3–0.4 MPa) *in case of E3000i series		
Standard equipment and accessories		
Power cord: 3 m / ϕ 6 mm Air hose with filter (K-251: 2058): 2 m		
Branch adapter / Connector cap: 2 pcs. / Reducer		
Connector cover A · B · Serial IF / Power cord hook		
Bracket (bottom · rear): 2 pcs. each / Rubber pad: 4 pcs.		
Fuse: 2 pcs. / Mounting screw: 8 pcs.		

Rear side
vertical replacement



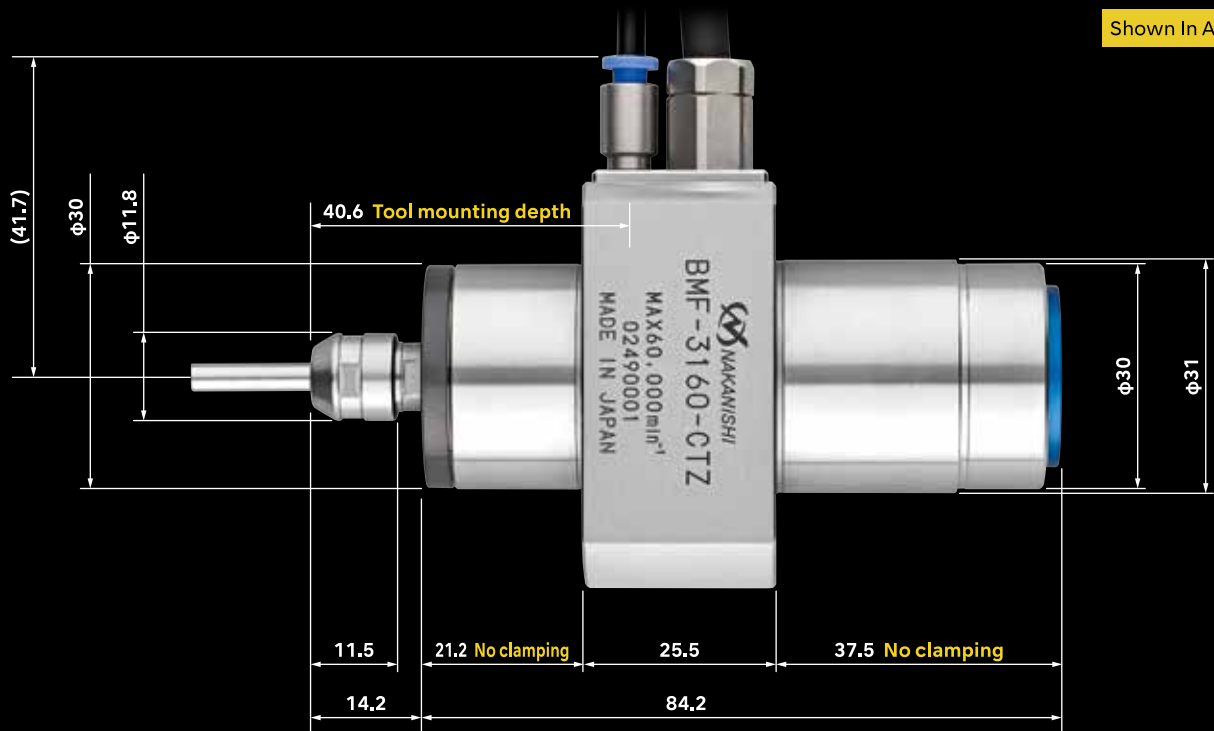
BMF-3160-CTZ

Flange type motor spindle for CNC automatic lathe



O.D. $\phi 31$ mm

Shown In Actual Size



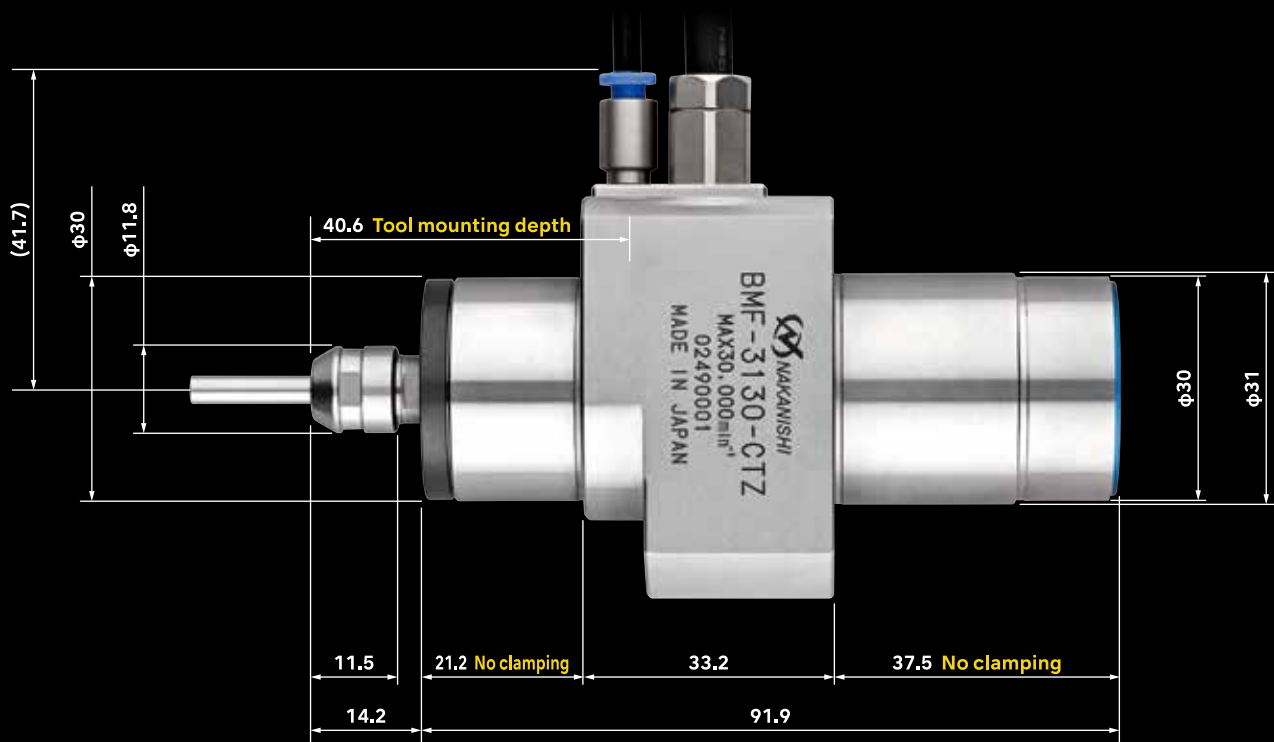
BMF-3130-CTZ

Flange type torque motor spindle for CNC automatic lathe

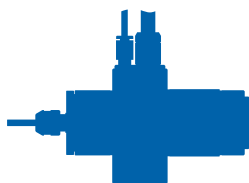


O.D. $\phi 31$ mm

Shown In Actual Size



BMF-3160-CTZ



Code No.

7923

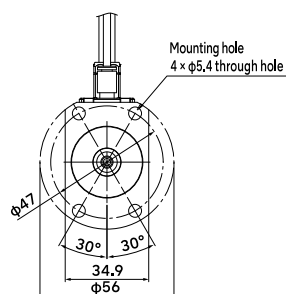
Model

BMF-3160-CTZ

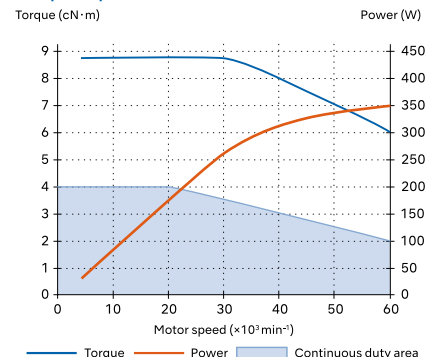
CAD drawings

CAD drawings (DXF/STEP) are available on our website

Mounting dimensions



Torque & power curve



O.D.	Motor speed	Max. power	Spindle accuracy	Collet	Min. bending cord radius	Net weight
φ31 mm	60,000 min ⁻¹	350 w	Within 1 μm	CHA Group (φ0.5-φ4.0 mm)	60 mm	604 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11) / Hex. socket bolt (M5 × 35): 4 pcs. *Collet is sold separately.					
Options	Collet (CHA Group): φ0.5-φ4.0 mm Motor cord: 3 m (7931), 5 m (7932), 7 m (7933)					

*Quick disconnect cord length: 0.5 m

BMF-3130-CTZ



Code No.

7924

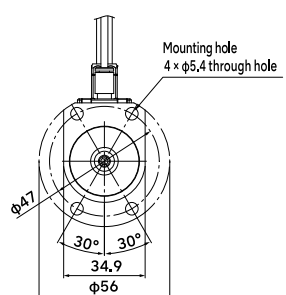
Model

BMF-3130-CTZ

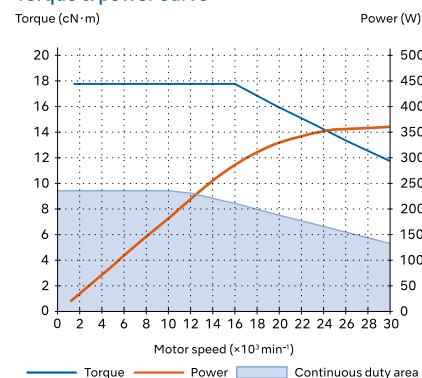
CAD drawings

CAD drawings (DXF/STEP) are available on our website

Mounting dimensions



Torque & power curve



O.D.	Motor speed	Max. power	Spindle accuracy	Collet	Min. bending cord radius	Net weight
φ31 mm	30,000 min ⁻¹	350 w	Within 1 μm	CHA Group (φ0.5-φ4.0 mm)	60 mm	659 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11) / Hex. socket bolt (M5 × 35) · (M5 × 40): 2 pcs. each *Collet is sold separately.					
Options	Collet (CHA Group): φ0.5-φ4.0 mm Motor cord: 3 m (7931), 5 m (7932), 7 m (7933)					

*Quick disconnect cord length: 0.5 m

BM-3030RA

Straight type torque motor spindle



O.D. $\phi 30$ mm

Shown In Actual Size



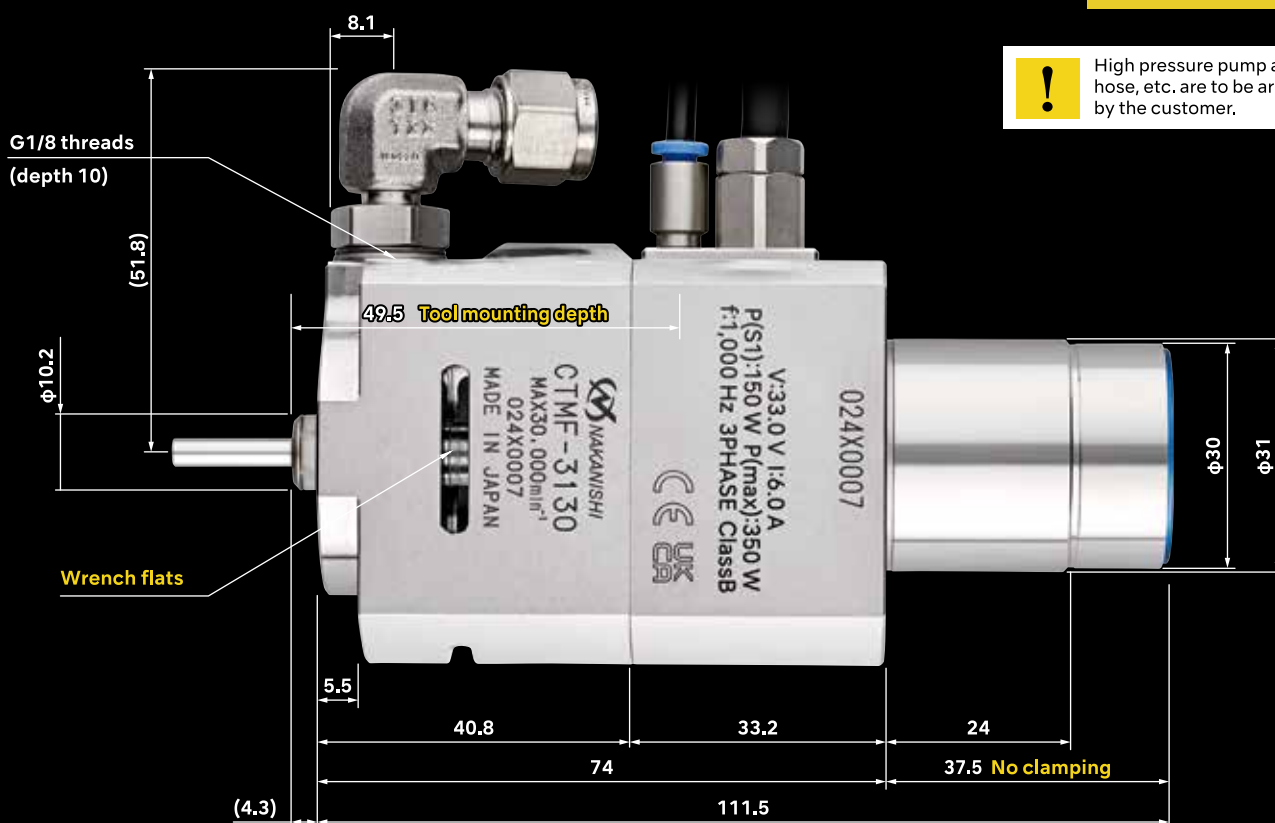
CTMF-3130

Coolant through motor spindle for CNC automatic lathe



O.D. $\phi 31$ mm

Shown In Actual Size



BM-3030RA



Order by Code No.

Code No.

7925

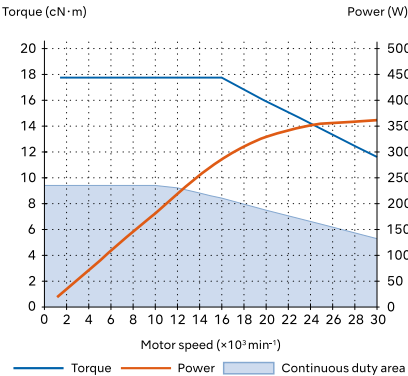
Model

BM-3030RA

CAD drawings

CAD drawings (DXF/STEP) are available on our website

Torque & power curve



O.D.	Motor speed	Max. power	Spindle accuracy	Collet	Min. bending cord radius	Net weight
φ30 mm	30,000 min ⁻¹	350 w	Within 1 μm	CHA Group (φ0.5-φ4.0 mm)	60 mm	474 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11) *Collet is sold separately.					
Options	Collet (CHA Group): φ0.5-φ4.0 mm					
	Motor cord: 3 m (7931), 5 m (7932), 7 m (7933)					

*Quick disconnect cord length: 0.5 m

CTMF-3130



Code No.

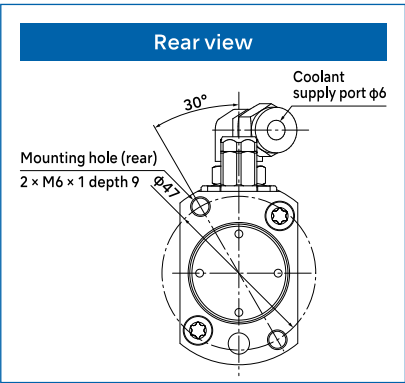
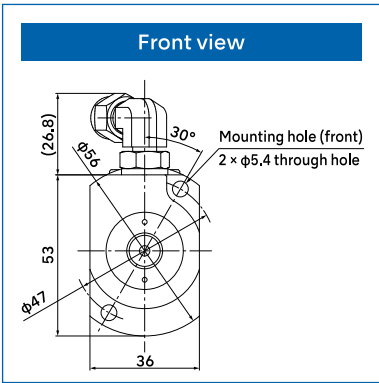
7926

Model

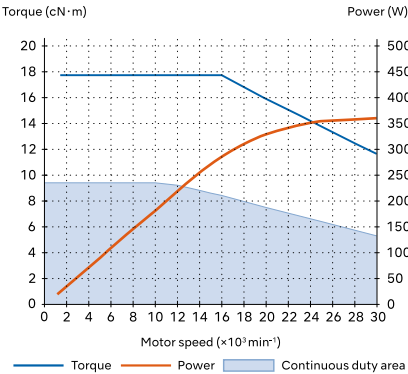
CTMF-3130

CAD drawings

CAD drawings (DXF/STEP) are available on our website



Torque & power curve



O.D.	Motor speed	Max. power	Spindle accuracy	Collet	Min. bending cord radius	Net weight
φ31 mm	30,000 min ⁻¹	350 w	Within 1 μm	CHA Group AA (φ3.0, φ3.175, φ4.0 mm)	60 mm	1,100 g
Standard equipment and accessories	Wrench (8 × 5) · (9 × 11) / Hex. socket bolt (M5 × 80): 2 pcs. *Collet and Collet nut are sold separately.					
Specifications	Coolant pressure: 3.0-20.0 MPa / Coolant filtration: 5 μm or less					
Options	Collet (CHA group high precision type AA): φ3.0, φ3.175, φ4.0 mm					
	Collet nut (CHN-CTA): 3.0, 3.175, 4.0 mm *Please match the Collet and Collet nut size.					
	Motor cord: 3 m (7931), 5 m (7932), 7 m (7933)					

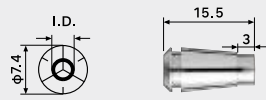
*Quick disconnect cord length: 0.5 m

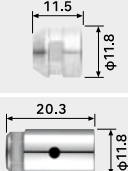
Accessories

Order by Code No.

Motor cord	Code No.	Model	Cord length	Standard accessories	Compatible model
 Joint type	7931	EMCD-3000i-3M	3 m	Air hose Connector cap (included)	BMF-3160-CTZ BMF-3130-CTZ BM-3030RA CTMF-3130
	7932	EMCD-3000i-5M	5 m		
	7933	EMCD-3000i-7M	7 m		

*The minimum cord bending radius is 60 mm.

Collet	Code No.	Model	I.D.	Compatible model
 φ1.0 and over	91430	CHA-3.0	φ3.0	BMF-3160-CTZ BMF-3130-CTZ BM-3030RA CTMF-3130 *High precision type AA (Run-out accuracy within 2 μm)
	91440	CHA-4.0	φ4.0	
	91492	CHA-2.35	φ2.35	
	91493	CHA-3.175	φ3.175	
	91494	CHA-3.0AA	φ3.0AA*	
	91495	CHA-4.0AA	φ4.0AA*	
	91496	CHA-3.175AA	φ3.175AA*	
 φ0.5-φ0.9	914 □□	CHA-□□	φ0.5, φ0.6, φ0.7, φ0.8, φ0.9	
			φ1.0, φ1.5, φ2.0, φ2.5, φ3.5	
			φ1.1, φ1.2, φ1.3, φ1.4, φ1.6, φ1.7, φ1.8, φ1.9 φ2.1, φ2.2, φ2.3, φ2.4, φ2.6, φ2.7, φ2.8, φ2.9 φ3.1, φ3.2, φ3.3, φ3.4, φ3.6, φ3.7, φ3.8, φ3.9	

Collet nut	Code No.	Model	Compatible model
	2102	CHN-A	BMF-3160-CTZ BMF-3130-CTZ BM-3030RA
	7798	CHN-CTA-3.0	CTMF-3130
	7799	CHN-CTA-3.175	
	7800	CHN-CTA-4.0	

Bracket	Code No.	Model	Compatible model
—	7943	DL-Type brackets for securing the E3000i controller horizontally: 2 pcs.	E3000i Controller *Remove the rubber pad before fitting the brackets.

Air line kit

Filtration: 0.3 μm



■Air piping

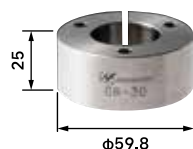
Inlet: G1/4 male thread for connection hose

Outlet: φ6.0 mm

■Net weight: 1.9 kg

Code No.	4504	Model	AL-C1204
Standard accessories	Hose pipe (K-275): 2 m / Rubber pad: 4 pcs. Mounting screw (M6 × 20): 4 pcs. Washer: 4 pcs. / Hose band: 1 pc.		
Standard equipment	Air filter / Air regulator / Air pressure gauge ON-OFF valve		

Grip ring



■Net weight: 385 g

Code No.	1885	Model	GR-30
Standard accessories	Mounting bolt (M5 × 25L): 3 pcs.		
Compatible model	BM-3030RA		

Control panel extension cord (4 m)



Code No.	7940	Model	E3000i-PEX4
Standard accessories	Assembled product (cord length: 4 m) Mounting screw (M3): 4 pcs. / Flange nut: 4 pcs.		

NAKANISHI INC.

Headquarters

700 Shimohinata, Kanuma, Tochigi 322-8666, Japan
TEL: +81-289-64-3520 / FAX: +81-289-62-1135

nakanishi-spindle.com

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