



Speed 3



iSpeed3 SERIES

HIGH-SPEED ROTATION & HIGH PRECISION

The Finger Tips

Maximum freedom in tool layout by minimum body size

φ19.05, φ20, φ22 mm ultra-compact body spindle

- Max. power: **140 W**
- Max. motor speed: **80,000 min⁻¹**
- Max. power: **150 W**
- Max. motor speed: **60,000 min⁻¹**

Spindle accuracy: within 1 μm

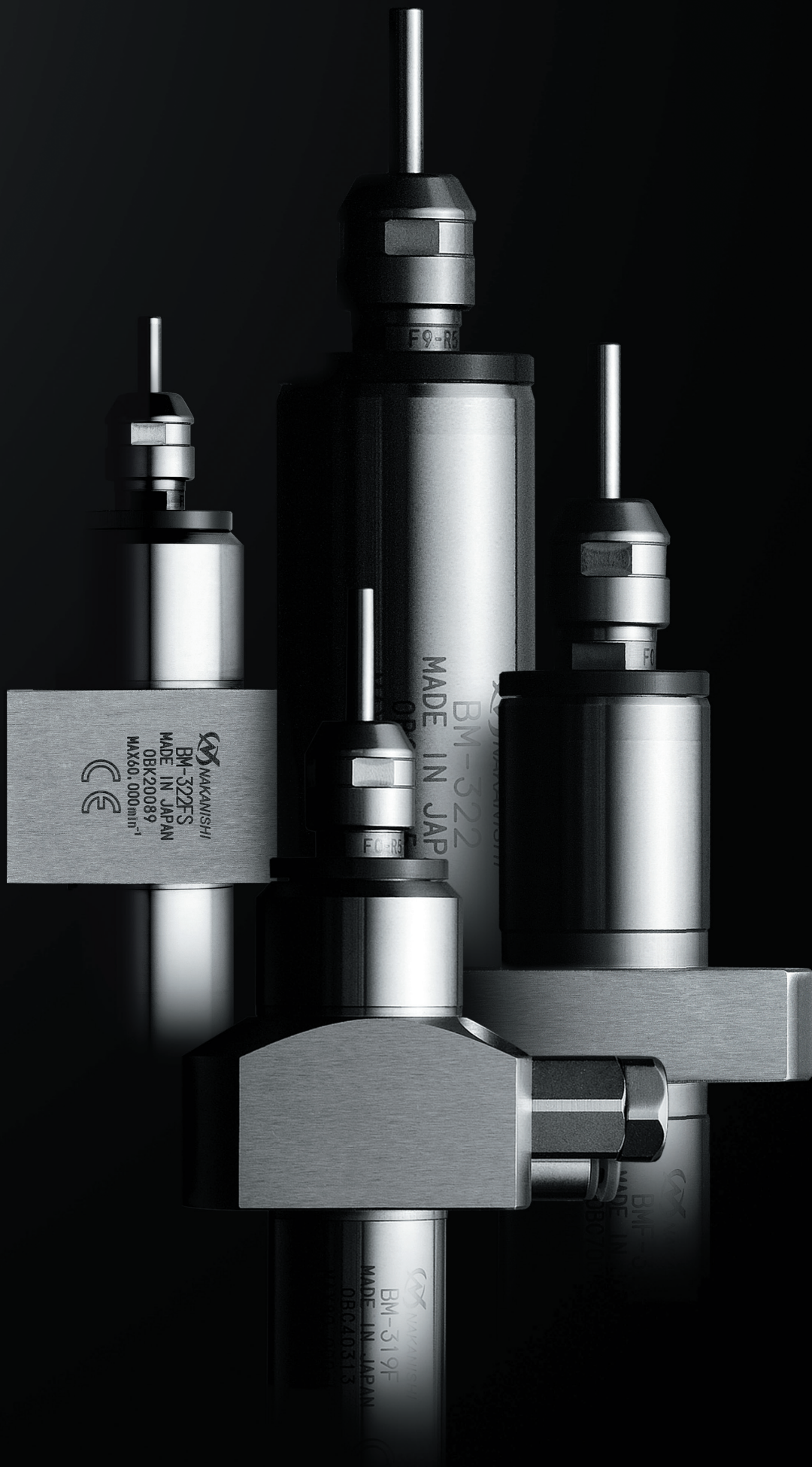
- Optimum for high-precision machining
- Longer tool life

Ceramic bearings

- Almost twice as durable as steel bearings
- Rigidity allows higher machining conditions

Brushless motor

- Eliminates the need of changing carbon brushes
- Higher power, longer product life, low maintenance and quiet operation



E4000

E3000

E2000

iSpeed3

Air-Speed

HES


TURBINES

ACCESSORIES


Index

Flange type motor spindle

BM-319F  p. 4-5
With 0.5 m joint cord

BM-320F  p. 4-5
With 0.5 m joint cord

BM-322FL  p. 4-7
With 0.5 m joint cord

BM-322FR  p. 4-7
With 0.5 m joint cord

BM-322FS  p. 4-9
With 0.5 m joint cord

BMF-319  p. 4-11

Straight type motor spindle

BMJ-319  p. 4-13

BMJ-320  p. 4-13

BMJ-322  p. 4-13

BM-319  p. 4-15
With 0.5 m joint cord

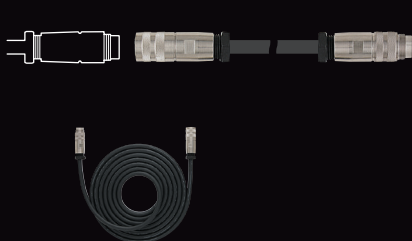
BM-320  p. 4-15
With 0.5 m joint cord

BM-322  p. 4-15
With 0.5 m joint cord

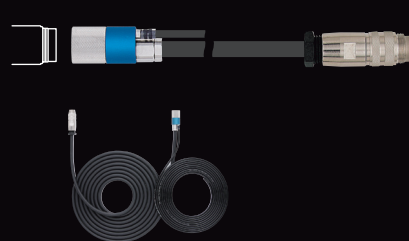
Controller

iSpeed3 CONTROLLER  p. 4-17

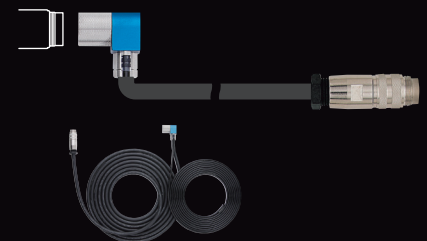
Motor cord



EMCD-BM3 p. 4-18
Joint type
[Feature] Connected to the motor connector so connection can be made away from the rear end of motor
[Length] 3 m, 5 m, 7 m



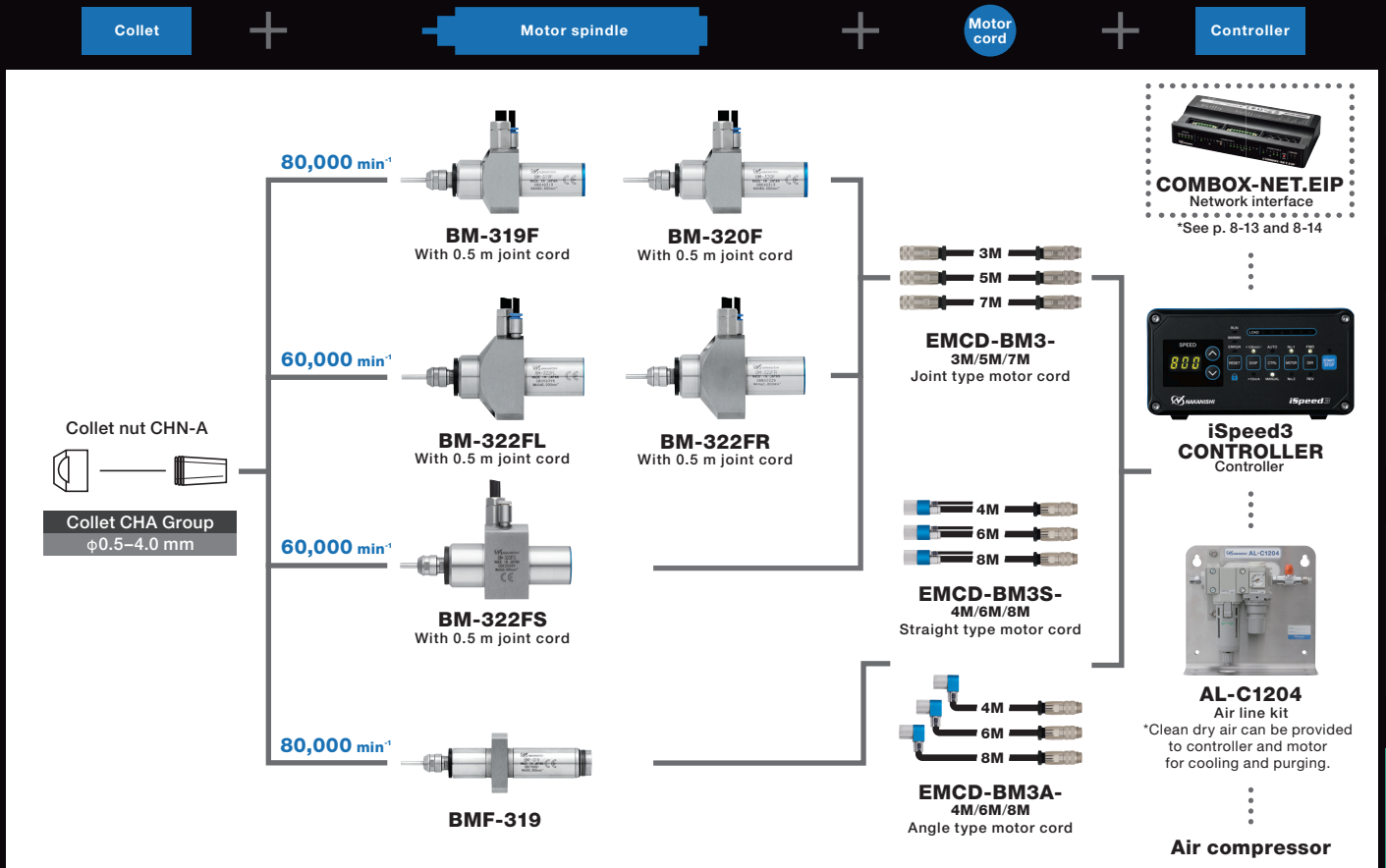
EMCD-BM3S p. 4-18
Straight type
[Feature] Connected to the rear end of motor
[Length] 4 m, 6 m, 8 m



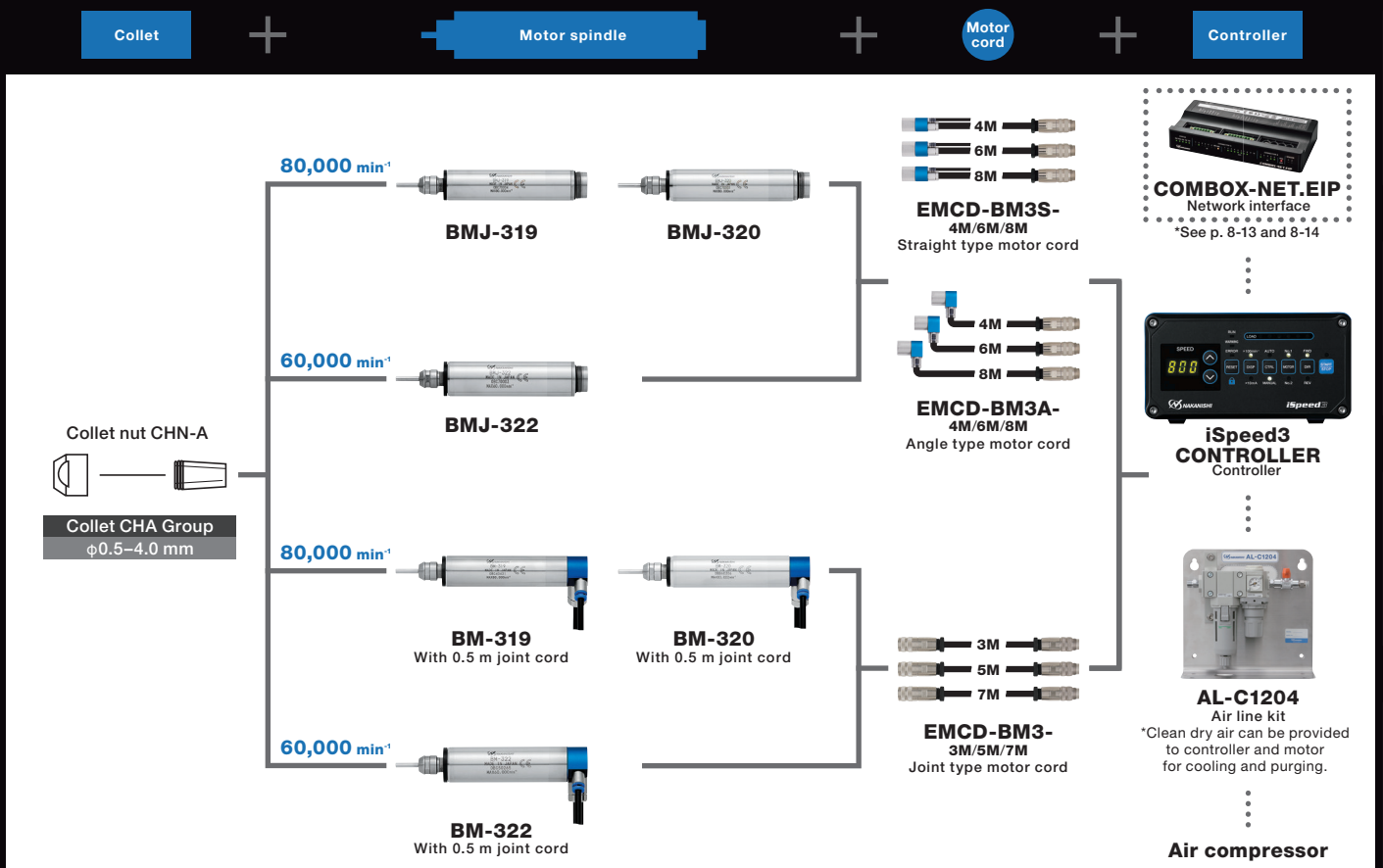
EMCD-BM3A p. 4-18
Angle type
[Feature] Connected to the rear end of motor at 90 degrees
[Length] 4 m, 6 m, 8 m

System Chart

Flange type motor spindle



Straight type motor spindle



E4000

E3000

E2000

iSpeed3

Air-Speed

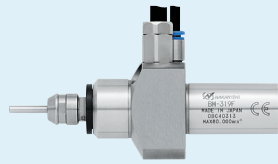
HES

TURBINES

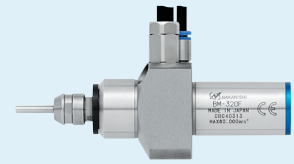
ACCESSORIES

Spindle
Guide

CHA



BM-319F



BM-320F

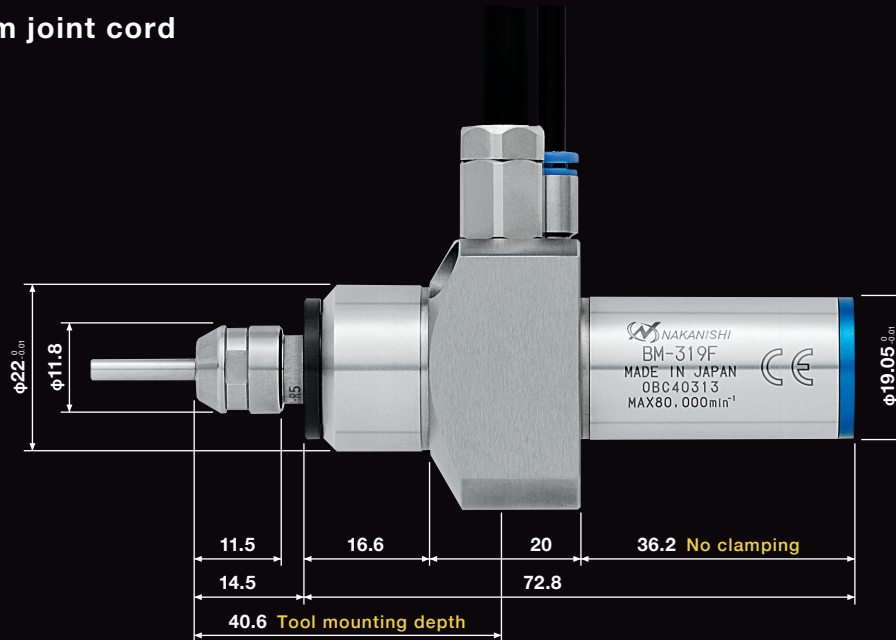
iSpeed3 SERIES

Shown In Actual Size

Flange type motor spindle

BM-319F

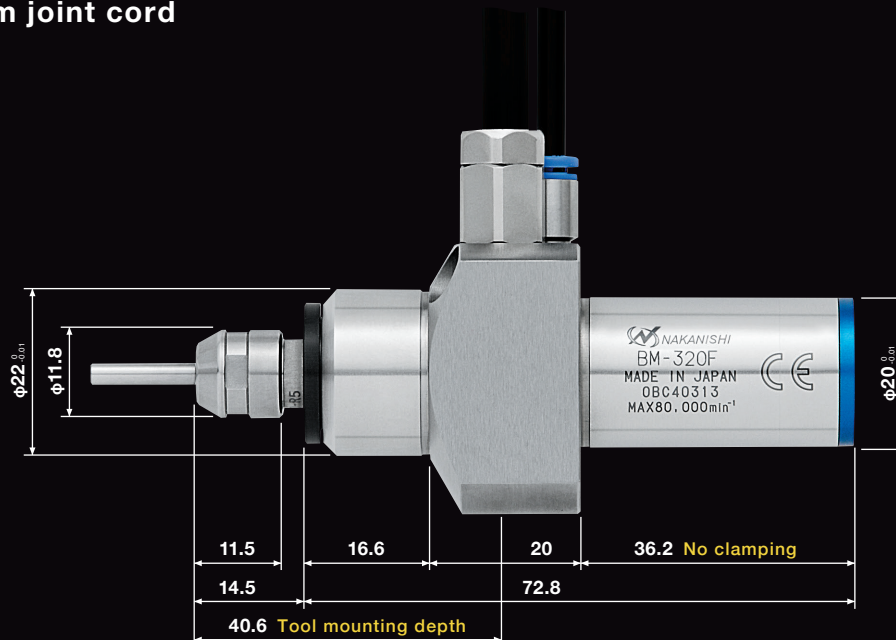
With 0.5 m joint cord

O.D. $\phi 19.05$ mm

Cord length: 0.5 m

BM-320F

With 0.5 m joint cord

O.D. $\phi 20$ mm

Cord length: 0.5 m

3M/5M/7M
EMCD-BM3

iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

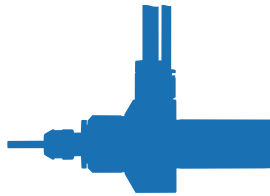
Specifications

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

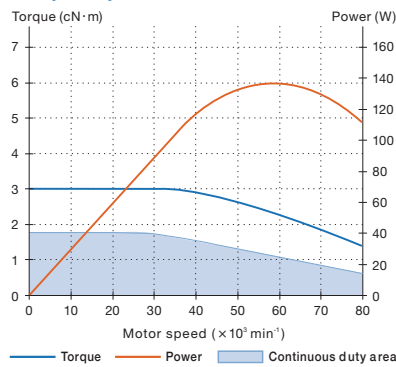
BM-319F

Code No. **7813**

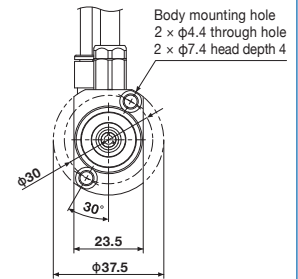
Model

BM-319F

Torque & power curve



Mounting dimensions

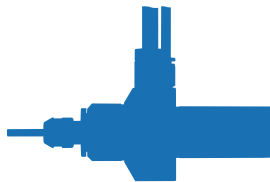


O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
φ19.05 mm	80,000 min⁻¹	140 w	Within 1 μm	60 mm	260 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M4 × 25) *Collet is sold separately.				
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5				
	Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

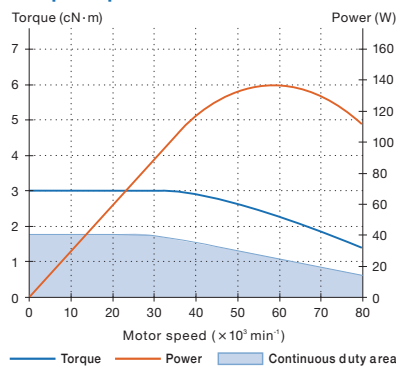
BM-320F

Code No. **7816**

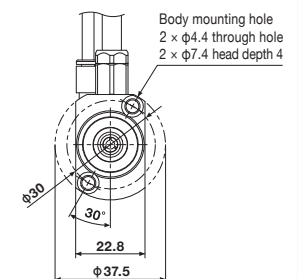
Model

BM-320F

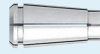
Torque & power curve



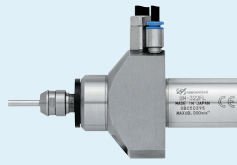
Mounting dimensions



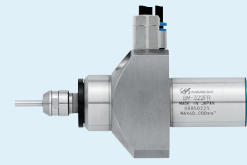
O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
φ20 mm	80,000 min⁻¹	140 w	Within 1 μm	60 mm	270 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M4 × 25) *Collet is sold separately.				
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5				
	Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

Spindle
Guide

CHA



BM-322FL



BM-322FR

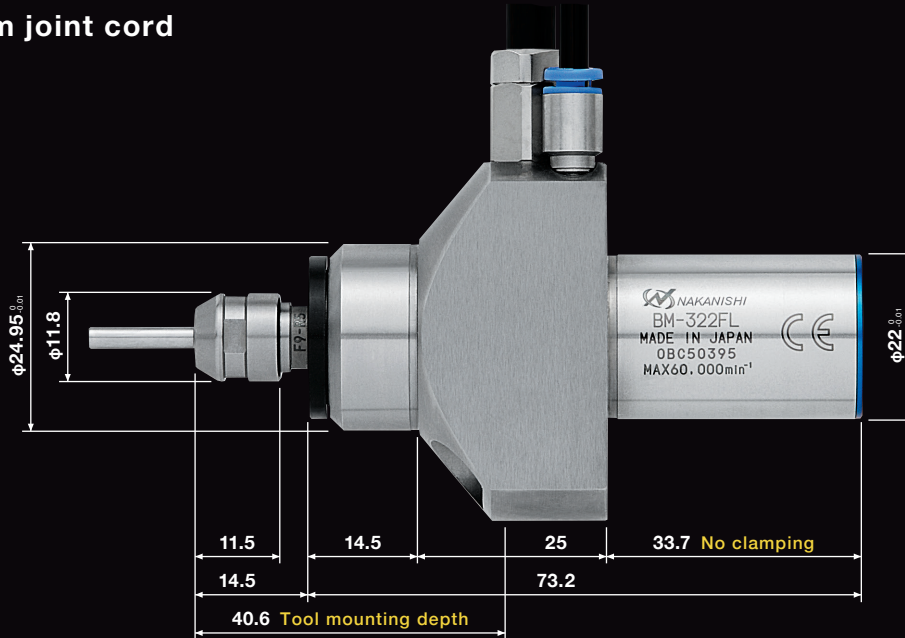
iSpeed3 SERIES

Shown In Actual Size

Flange type motor spindle

BM-322FL

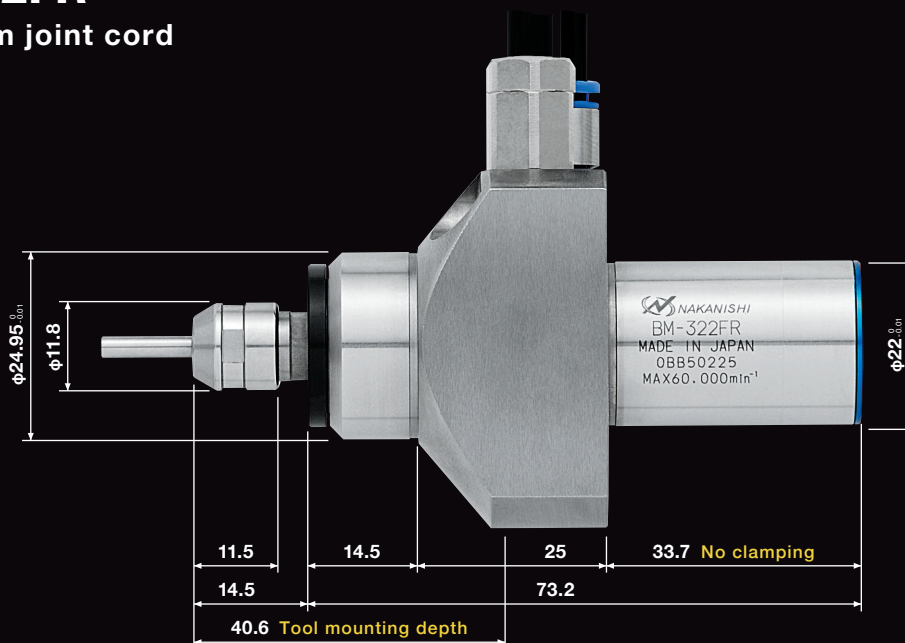
With 0.5 m joint cord

O.D. ϕ 22 mm

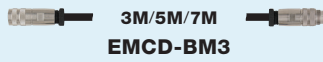
Cord length: 0.5 m

BM-322FR

With 0.5 m joint cord

O.D. ϕ 22 mm

Cord length: 0.5 m



iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

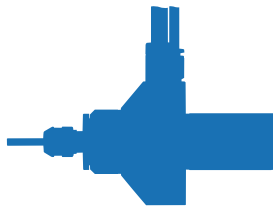
Specifications

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

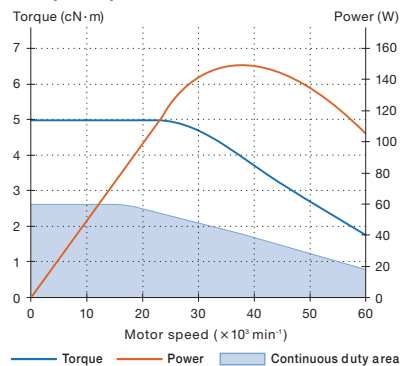
BM-322FL

Code No. **7815**

Model

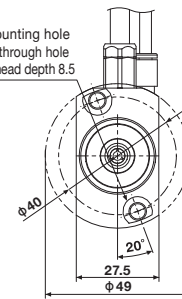
BM-322FL

Torque & power curve



Mounting dimensions

Body mounting hole
2 × $\phi 5.2$ through hole
2 × $\phi 10$ head depth 8.5

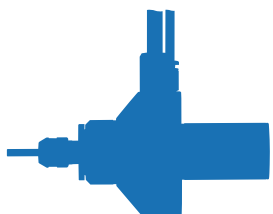


O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
$\phi 22$ mm	60,000 min ⁻¹	150 w	Within 1 μ m	60 mm	360 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M5 × 25) *Collet is sold separately.				
Options	Collet (CHA Group): $\phi 0.5$ – $\phi 4.0$ mm p. 8-5				
	Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

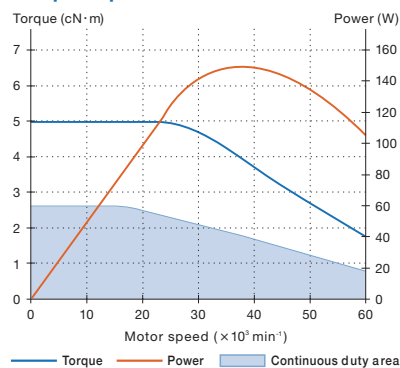
BM-322FR

Code No. **7817**

Model

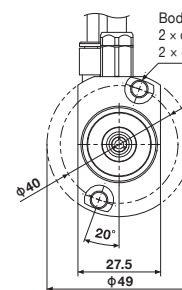
BM-322FR

Torque & power curve



Mounting dimensions

Body mounting hole
2 × $\phi 5.2$ through hole
2 × $\phi 10$ head depth 8.5



O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
$\phi 22$ mm	60,000 min ⁻¹	150 w	Within 1 μ m	60 mm	360 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M5 × 25) *Collet is sold separately.				
Options	Collet (CHA Group): $\phi 0.5$ – $\phi 4.0$ mm p. 8-5				
	Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

Spindle
Guide

CHA



BM-322FS

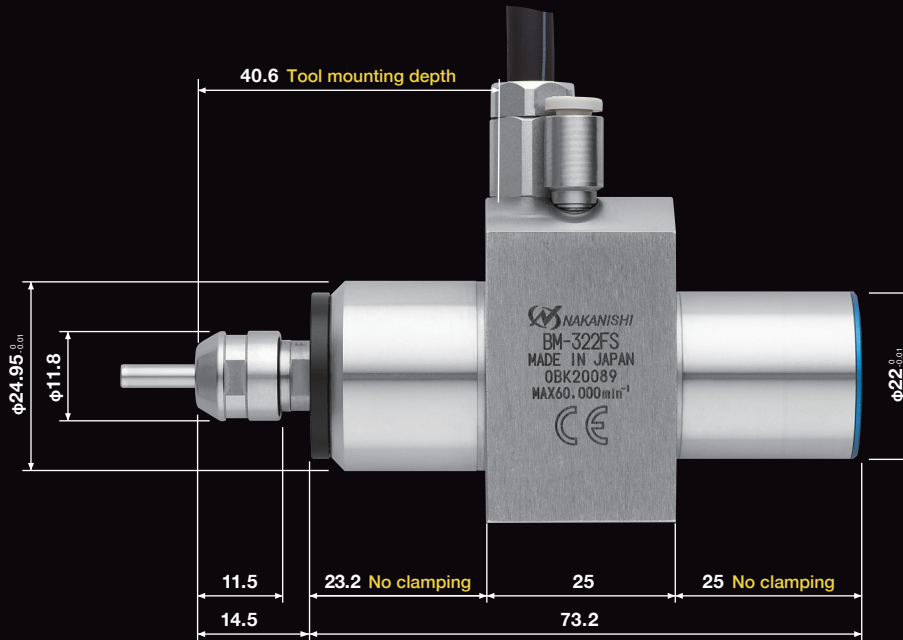
iSpeed3 SERIES

Shown In Actual Size

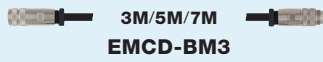
Flange type motor spindle

BM-322FS

With 0.5 m joint cord

O.D. ϕ 22 mm

Cord length: 0.5 m

3M/5M/7M
EMCD-BM3

iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

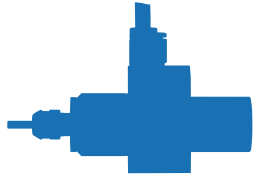
CAD drawings (DXF/STEP) are available on our website

BM-322FS

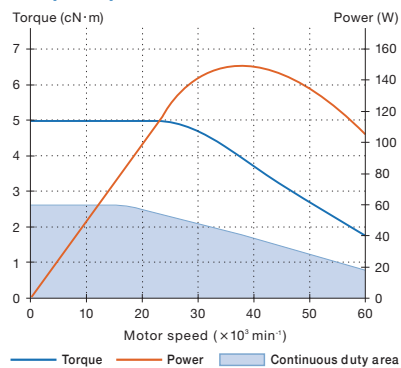
Code No.

7823

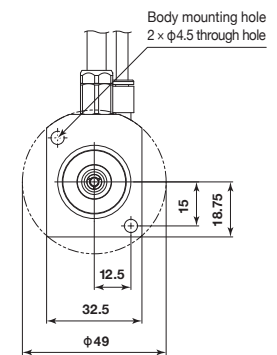
Model

BM-322FS

Torque & power curve



Mounting dimensions



O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
$\phi 22 \text{ mm}$	$60,000 \text{ min}^{-1}$	150 w	Within $1 \mu\text{m}$	60 mm	430 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M4 × 35) *Collet is sold separately.				
Options	Collet (CHA Group): $\phi 0.5\text{--}\phi 4.0 \text{ mm}$ p. 8-5				
	Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

E4000

E3000

E2000

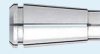
iSpeed3

Air-Speed

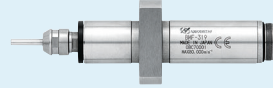
HES

TURBINES

ACCESSORIES

Spindle
Guide

CHA



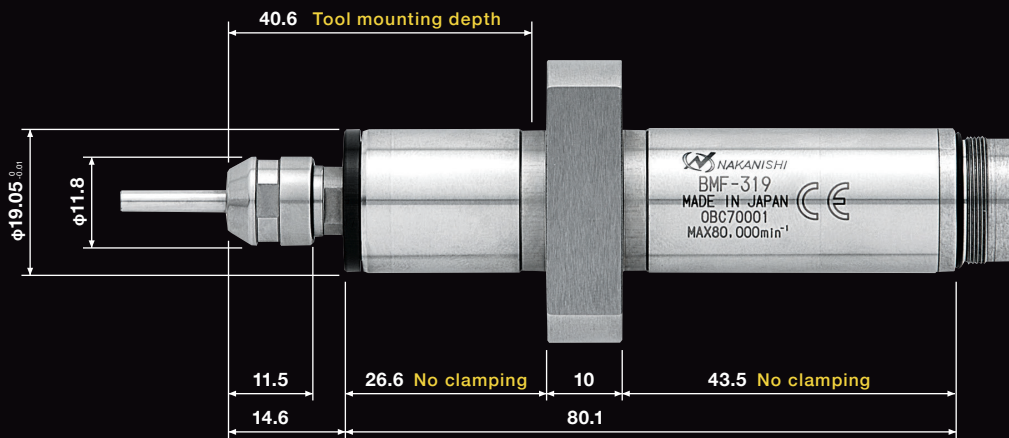
BMF-319

iSpeed3 SERIES

Shown In Actual Size

Flange type motor spindle

BMF-319

O.D. ϕ 19.05 mm



iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

BMF-319

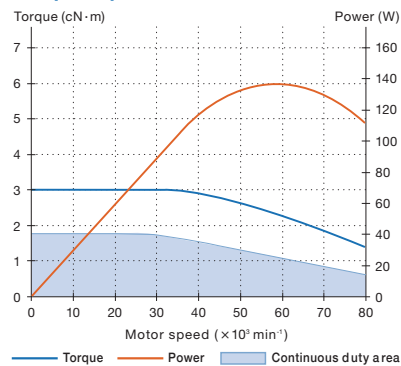
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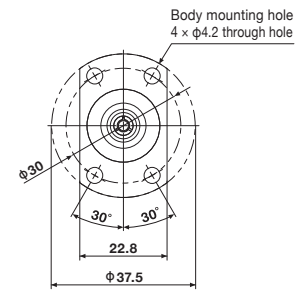
Model

BMF-319

Torque & power curve



Mounting dimensions



O.D.	Motor speed	Max. power	Spindle accuracy	Net weight
$\phi 19.05$ mm	80,000 min⁻¹	140 w	Within 1 μm	180 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each / Bolt: 2 pcs. (M4 × 16) *Collet is sold separately.			
Options	Collet (CHA Group): $\phi 0.5$ – $\phi 4.0$ mm p. 8-5			
	Motor cord (Straight): 4 m (9264), 6 m (9265), 8 m (9266)			
	Motor cord (Angle): 4 m (9267), 6 m (9268), 8 m (9269) p. 4-18			

E4000

E3000

E2000

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

CHA



BMJ-319



BMJ-320



BMJ-322

iSpeed3 SERIES

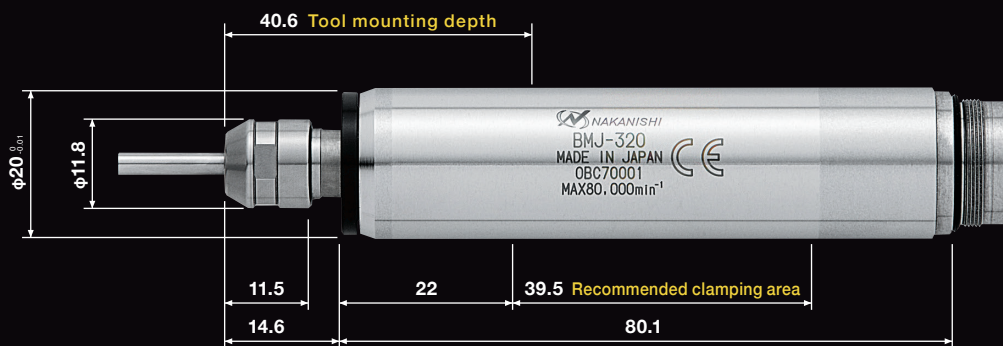
Shown In Actual Size

Straight type motor spindle

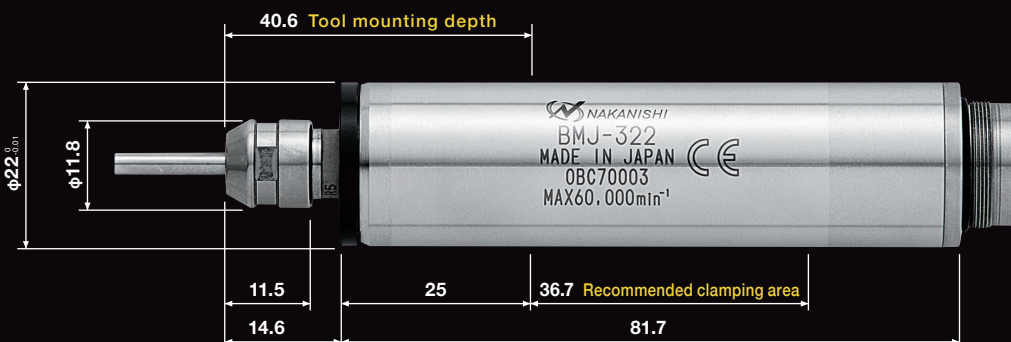
BMJ-319

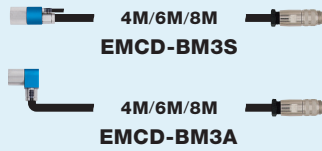
O.D. $\phi 19.05$ mm

BMJ-320

O.D. $\phi 20$ mm

BMJ-322

O.D. $\phi 22$ mm



iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

BMJ-319

Code No.

7819

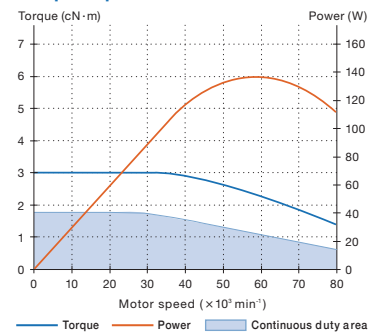
Model

BMJ-319



O.D.	Motor speed	Max. power	Spindle accuracy	Net weight
φ19.05 mm	80,000 min ⁻¹	140 w	Within 1 μm	145 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.			
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5			
	Motor cord (Straight): 4 m (9264), 6 m (9265), 8 m (9266) Motor cord (Angle): 4 m (9267), 6 m (9268), 8 m (9269) p. 4-18			

Torque & power curve



BMJ-320

Code No.

7820

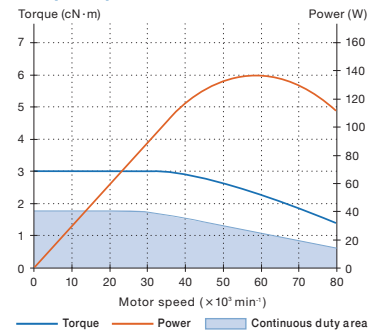
Model

BMJ-320



O.D.	Motor speed	Max. power	Spindle accuracy	Net weight
φ20 mm	80,000 min ⁻¹	140 w	Within 1 μm	160 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.			
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5			
	Motor cord (Straight): 4 m (9264), 6 m (9265), 8 m (9266) Motor cord (Angle): 4 m (9267), 6 m (9268), 8 m (9269) p. 4-18			

Torque & power curve



BMJ-322

Code No.

7821

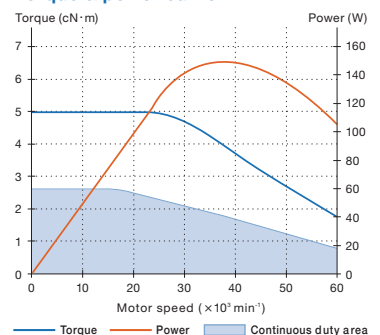
Model

BMJ-322



O.D.	Motor speed	Max. power	Spindle accuracy	Net weight
φ22 mm	60,000 min ⁻¹	150 w	Within 1 μm	190 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.			
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5			
	Motor cord (Straight): 4 m (9264), 6 m (9265), 8 m (9266) Motor cord (Angle): 4 m (9267), 6 m (9268), 8 m (9269) p. 4-18			

Torque & power curve



E4000

E3000

E2000

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

CHA



BM-319



BM-320



BM-322

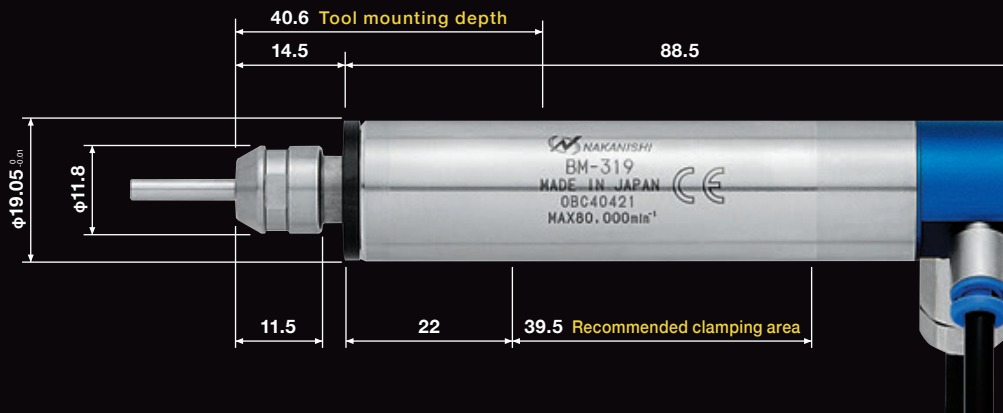
iSpeed3 SERIES

Shown In Actual Size

Straight type motor spindle

BM-319

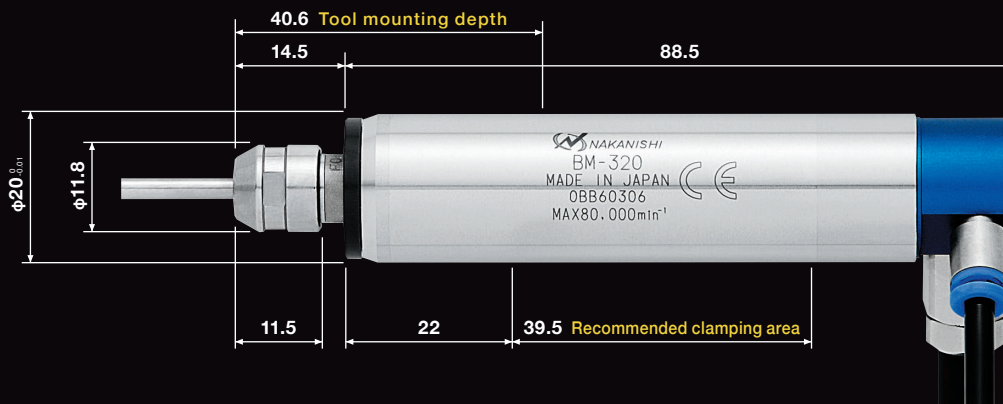
With 0.5 m joint cord

O.D. $\phi 19.05$ mm

Cord length: 0.5 m

BM-320

With 0.5 m joint cord

O.D. $\phi 20$ mm

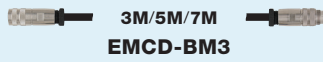
Cord length: 0.5 m

BM-322

With 0.5 m joint cord

O.D. $\phi 22$ mm

Cord length: 0.5 m

3M/5M/7M
EMCD-BM3

iSpeed3 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

BM-319

Code No.

7810

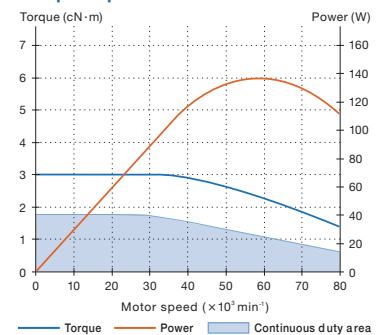
Model

BM-319



O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
φ19.05 mm	80,000 min ⁻¹	140 w	Within 1 μm	60 mm	210 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.				
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5 Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

Torque & power curve



BM-320

Code No.

7811

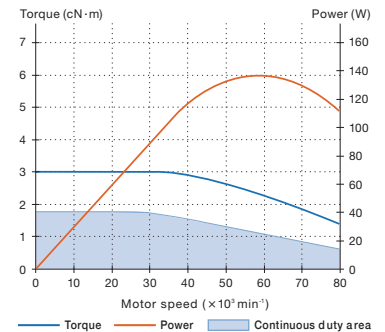
Model

BM-320



O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
φ20 mm	80,000 min ⁻¹	140 w	Within 1 μm	60 mm	230 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.				
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5 Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

Torque & power curve



BM-322

Code No.

7814

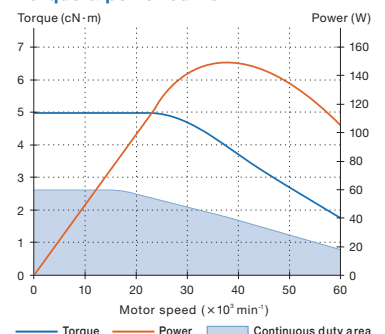
Model

BM-322



O.D.	Motor speed	Max. power	Spindle accuracy	Min. bending cord radius	Net weight
φ22 mm	60,000 min ⁻¹	150 w	Within 1 μm	60 mm	250 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.				
Options	Collet (CHA Group): φ0.5–φ4.0 mm p. 8-5 Motor cord: 3 m (9261), 5 m (9262), 7 m (9263) p. 4-18				

Torque & power curve



E4000

E3000

E2000

iSpeed3

Air-Speed

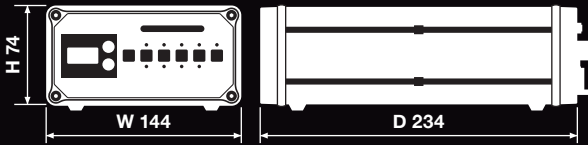
HES

TURBINES

ACCESSORIES

iSpeed3 Controller

iSpeed3 CONTROLLER Controller



External control function

- **External input**
Rotating ON/OFF, Forward/reverse rotation, Motor speed control, Safety relay brake, etc.
- **External output**
Motor current, Rotating pulse, Error, Load, Motor speed, etc.
- **Parameter setting**
Setting maximum motor speed, Setting fixed motor speed, Speed point, etc.

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

Voltage (Plug type)	Code No.
200 V (C Type)	8479

*8477 (100 V), 8478 (120 V), 8480 (230 V) are available.

Voltage (Plug type)	Area	Product
100 V (A Type)	Japan	
120 V (B Type)	USA Canada	
200 V (C Type)	Without plug	
230 V (D Type)	Europe	


* Please select Voltage for purchasing.

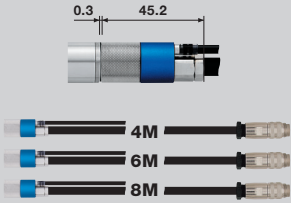
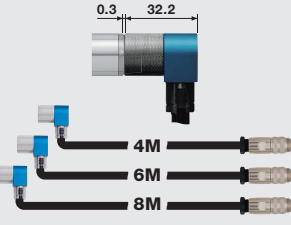


Motor output	Motor speed	Max. power	Power consumption	Air consumption	Net weight
2 Motor spindles (not simultaneously)	1,000–80,000 min ⁻¹	150 w	AC0.65 A (200 V)	1 spindle: 30 NL/min (0.25 MPa) 2 spindles: 60 NL/min (0.25 MPa)	3.5 kg
Standard equipment and accessories	Power cord: 3 m / Air hose with filter (K-25t: 2058): 2 m / Motor connector cap: 2 pcs. (included) Bracket: 2 pcs. / Plate nut: 4 pcs. / M3 bolt: 4 pcs. / Fuse: 2 pcs.				

Motor cord

Order by Code No.

Motor cord	Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
 <p>Joint type</p>	9261	EMCD-BM3-3M	3 m	Air hose Connector cap (included)	BM-319F · BM-320F BM-322FL · BM-322FR BM-322FS BM-319 · BM-320 BM-322 · BM-325
	9262	EMCD-BM3-5M	5 m		
	9263	EMCD-BM3-7M	7 m		

Motor cord	Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
 <p>Straight type</p>	9264	EMCD-BM3S-4M	4 m	Air hose Connector cap (included)	BMF-319 · BMF-320 BMF-322 · BMF-325 BMJ-319 · BMJ-320 BMJ-322 · BMJ-325
	9265	EMCD-BM3S-6M	6 m		
	9266	EMCD-BM3S-8M	8 m		
 <p>Angle type</p>	9267	EMCD-BM3A-4M	4 m	Air hose Connector cap (included)	BMF-319 · BMF-320 BMF-322 · BMF-325 BMJ-319 · BMJ-320 BMJ-322 · BMJ-325
	9268	EMCD-BM3A-6M	6 m		
	9269	EMCD-BM3A-8M	8 m		

*The minimum cord bending radius for the above three types of motor cords is 60 mm.

E4000

E3000

E2000

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

ACCESSORIES

Air line kit	p. 8-3-4
Collet	p. 8-5-7
Collet nut	p. 8-8
Grip ring / Spacer / Bush	p. 8-9-10
Collet holder / Preset adapter	p. 8-11
COMBOX-NET.EIP, etc.	p. 8-12-14



E4000

E3000

E2000

iSpeed3

Air-Speed

HES

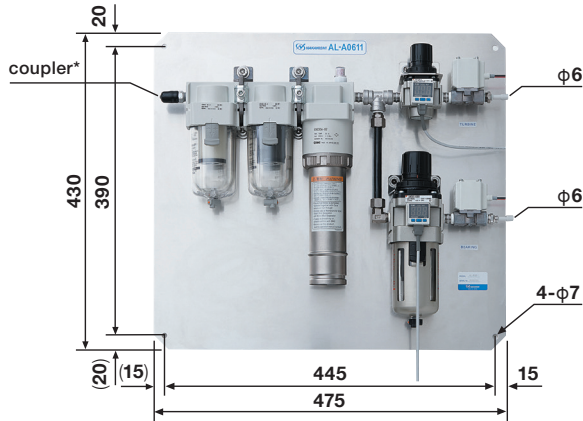
TURBINES

ACCESSORIES

Air line kit

AL-A0611

Filtration: 0.01 µm



Code No.

1548

Model

AL-A0611

■ Air piping

Inlet: Coupler (Model: KK13P-02M made by SMC Corporation)

Outlet: φ6.0 mm × 2 parts

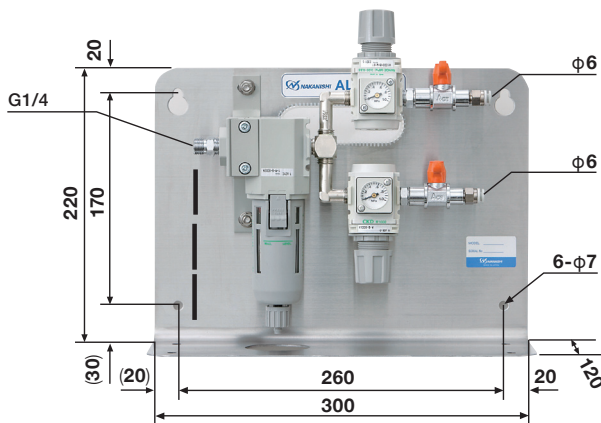
■ Net weight: 8.2 kg

Standard accessories	Spacer: 4 pcs.
Standard equipment	Mist separator / Micro-mist separator Membrane air dryer / Air regulator Regulator with Micro-mist separator Digital pressure switch: 2 pcs. / Solenoid valve: 2 pcs.
Compatible model	E3000 (NRAF-5080) · ABT series Xpeed series

*If you do not use our air line kit, please prepare a micro mist separator with 0.01 µm filtration.

AL-A1205

Filtration: 0.3 µm



Code No.

4505

Model

AL-A1205

■ Air piping

Inlet: G1/4 male thread for connection hose

Outlet: φ6.0 mm × 2 parts

■ Net weight: 2.4 kg

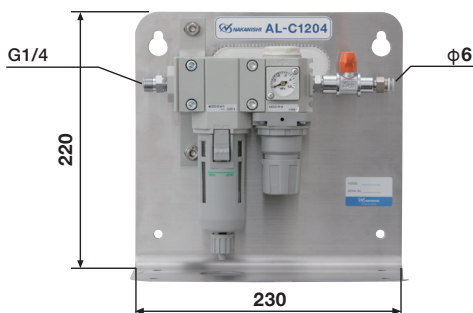
Standard accessories	Hose pipe (K-275): 2 m Mounting screw (M6 × 20): 4 pcs. Washer: 4 pcs. / Rubber pad: 4 pcs.
Standard equipment	Oil mist filter / Air regulator: 2 pcs. ON-OFF valve: 2 pcs.
Compatible model	E3000 (NRAF-5080) · ABT series

*Recommendation of nominal filtration rating: 0.3 µm,

Pressure range: 0.1-1.0 MPa Recommendation of air filter: M2000-WS (CKD)

AL-C1204

Filtration: 0.3 µm



Code No.

4504

Model

AL-C1204

■ Air piping

Inlet: G1/4 male thread for connection hose

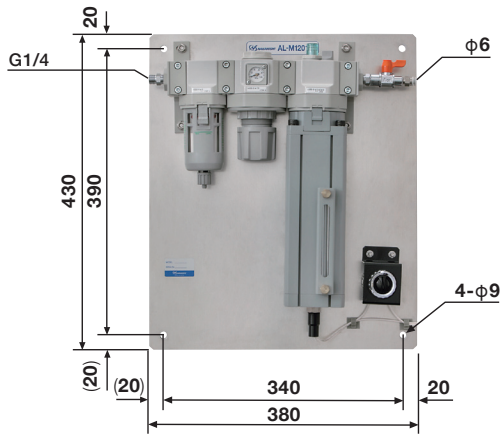
Outlet: φ6.0 mm

■ Net weight: 1.9 kg

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
Compatible model	E4000 series · E3000 series · E2000 series iSpeed3 series · HES series

AL-M1201BL

Filtration: 0.3 µm



Code No.

4501

Model

AL-M1201BL

■ Air piping

Inlet: G1/4 male thread for connection hose

Outlet: φ6.0 mm

■ Net weight: 5.2 kg

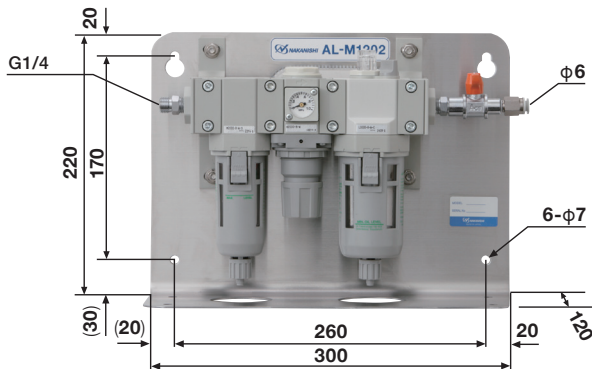
Standard accessories	Hose pipe (K-275): 2 m / Connection joint: 1 pc. φ6 mm Air hose: 1 pc. / Spacer: 4 pcs. Lubricating oil (K-202) 1 L: 1 pc. Bolt (M8 × 20 L): 4 pcs.
Standard equipment	Air filter / Air regulator / Lubricator ON-OFF valve / Alarm buzzer
Compatible model	E3000 (RG-3004M) · HTS series PLANET series

*Recommendation of nominal filtration rating: 0.3 µm,

Pressure range: 0.1-1.0 MPa Recommendation of air filter: M2000-WS (CKD)

AL-M1202

Filtration: 0.3 µm



Code No.

4502

Model

AL-M1202

■ Air piping

Inlet: G1/4 male thread for connection hose

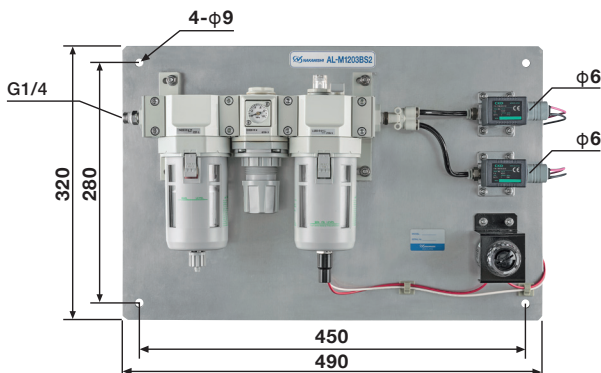
Outlet: φ6.0 mm

■ Net weight: 2.8 kg

Standard accessories	Hose pipe (K-275): 2 m / Hose band: 1 pc. Lubricating oil (K-211) 70 cc: 1 pc. Mounting screw (M6 × 20): 4 pcs. Washer: 4 pcs. / Rubber pad: 4 pcs.
Standard equipment	Air filter / Air regulator / Lubricator ON-OFF valve
Compatible model	Air-Speed series · HTS series · PLANET series

AL-M1203BS2

Filtration: 0.3 µm



Code No.

4503

Model

AL-M1203BS2

■ Air piping

Inlet: G1/4 male thread for connection hose

Outlet: φ6.0 mm × 2 parts

■ Net weight: 3.9 kg

Standard accessories	Hose pipe (K-275): 2 m Lubricating oil (K-202) 1 L: 1 pc. Bolt (M8 × 20 L): 4 pcs. / Spacer: 4 pcs.
Standard equipment	Air filter / Air regulator / Lubricator Solenoid valve: 2 pcs. / Alarm buzzer
Compatible model	Air-Speed series

E4000

E3000

E2000

iSpeed3

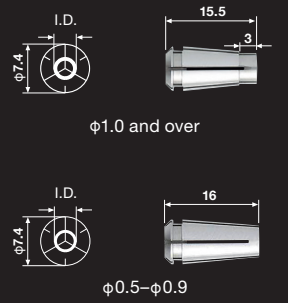
Air-Speed

HES

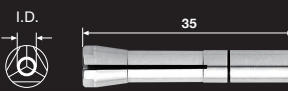
TURBINES

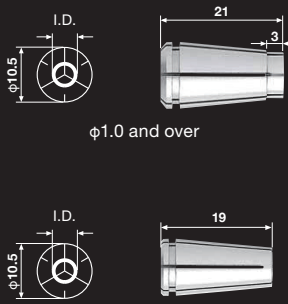
ACCESSORIES

Collet


CHA Group		Fit nuts: CHN-A, CHN-AA, CHN-CTA, CHN-3A			
		Code No.	Model	I.D. (mm)	Compatible model
 <p>φ1.0 and over</p> <p>φ0.5-φ0.9</p>	91494	CHA-3.0AA	φ3.0AA*	CTS-2630 / 2620A (Type AA only) CTS-3030 EM20-S6000 · EM25-S6000 EMS-3060A · NR-3080S MSS-19 · MSS-20 · MSS-22 PMS-3020A QC3-A (NRR3060-QC / NR3060-AQC) ABT-1000 / 1600 Xpeed1600 (Type AA only) HES810 series HTS series iSpeed3 series	
	91496	CHA-3.175AA	φ3.175AA*		
91495	CHA-4.0AA	φ4.0AA*			
91492	CHA-2.35	φ2.35			
91430	CHA-3.0	φ3.0			
91493	CHA-3.175	φ3.175			
91440	CHA-4.0	φ4.0			
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			


*High precision type AA (Run-out accuracy within 2 μm)

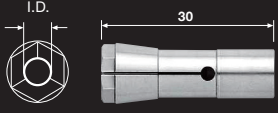
CHB Group		Fit nuts: K-265, K-265A			
		Code No.	Model	I.D. (mm)	Compatible model
	92820	CHB-2.0	φ2.0	NR33-6000ATC-ESD NR40-5100 ATC · NRR-3060	
	92830	CHB-3.0	φ3.0		
	92893	CHB-3.175	φ3.175		
	92835	CHB-3.5	φ3.5		
	92840	CHB-4.0	φ4.0		

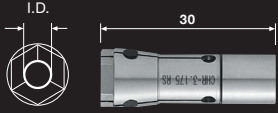
CHK Group		Fit nuts: K-265, K-265A			
		Code No.	Model	I.D. (mm)	Compatible model
 <p>φ1.0 and over</p> <p>φ0.5-φ0.9</p>	91597	CHK-3.0AA	φ3.0AA*	EM30-S6000 · EMA-3020K · EMR-3008K EMS-3060K · NR-2551 · NR-3060 NR-3060S · NR-403E · NR-453E NRAF-5080 · NRF-3060S · RAS-151E RAX-71E · RAX-271E MSS-25 · MSST-23 · PMA-3013K PMR-3005K · PMS-3020K NR-303 · NR-311 · NR-2351 · RAS-101 QC5-K (NRR4040-QC / NR4040-AQC) QC3-K (NRR3060-QC / NR3060-AQC) Xpeed1200 (Type AA only) HES510 series PLANET series	
	91598	CHK-3.175AA	φ3.175AA*		
	91599	CHK-4.0AA	φ4.0AA*		
	91600	CHK-6.0AA	φ6.0AA*		
	91601	CHK-6.35AA	φ6.35AA*		
	91592	CHK-2.35	φ2.35		
	91530	CHK-3.0	φ3.0		
	91593	CHK-3.175	φ3.175		
	91540	CHK-4.0	φ4.0		
	91594	CHK-4.76	φ4.76		
	91560	CHK-6.0	φ6.0		
	91596	CHK-6.35	φ6.35		
915 □□	CHK-□□	φ0.5, φ0.6, φ0.7, φ0.8, φ0.9 φ1.0, φ1.5, φ2.0, φ2.5, φ3.5, φ4.5, φ5.0, φ5.5 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 φ4.1, φ4.2, φ4.3, φ4.4, φ4.6, φ4.7, φ4.8, φ4.9 φ5.1, φ5.2, φ5.3, φ5.4, φ5.6, φ5.7, φ5.8, φ5.9			


*High precision type AA (Run-out accuracy within 2 μm)

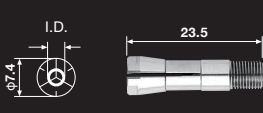
CHK-OH Group		Fit nut: K-265			
		Code No.	Model	I.D. (mm)	Compatible model
	93630	CHK-OH-3.0	φ3.0	CTM-4020 BMS-4020-MQL-CHK / 2M BMS-4040-MQL-CHK / 2M	
	93631	CHK-OH-3.175	φ3.175		
	93640	CHK-OH-4.0	φ4.0		
	93650	CHK-OH-5.0	φ5.0		
	93660	CHK-OH-6.0	φ6.0		
	93663	CHK-OH-6.35	φ6.35		

CHM Group					
		Code No.	Model	I.D. (mm)	Compatible model
		90910	CHM-1.0	φ1.0	AMH-301 · NR-601
		90916	CHM-1.6	φ1.6	
		90920	CHM-2.0	φ2.0	
		90992	CHM-2.35	φ2.35	
		90930	CHM-3.0	φ3.0	
		90993	CHM-3.175	φ3.175	

CHR Group					
		Code No.	Model	I.D. (mm)	Compatible model
		91920	CHR-2.0	φ2.0	NR50-5100 ATC
		91930	CHR-3.0	φ3.0	
		91993	CHR-3.175	φ3.175	
		91940	CHR-4.0	φ4.0	
		91960	CHR-6.0	φ6.0	
		91996	CHR-6.35	φ6.35	

CHR RS Group					
		Code No.	Model	I.D. (mm)	Compatible model
		93201	CHR-3.0RS	φ3.0	NR50-5100 ATC NR50-5100 ATC RS · NR50-6000ATC-RS
		93202	CHR-3.175RS	φ3.175	
		93203	CHR-4.0RS	φ4.0	
		93204	CHR-6.0RS	φ6.0	
		93205	CHR-6.35RS	φ6.35	

CHS Group					
		Code No.	Model	I.D. (mm)	Compatible model
		90516	CHS-1.6	φ1.6	RA-200 · RA-271E
		90592	CHS-2.35	φ2.35	
		90530	CHS-3.0	φ3.0	
		90593	CHS-3.175	φ3.175	
		905□□	CHS-□□	φ0.8, φ0.9 φ1.0, φ2.0, φ2.5 φ1.1, φ1.2, φ1.3, φ1.4, φ1.5, φ1.7, φ1.8, φ1.9 φ2.1, φ2.2, φ2.3, φ2.4, φ2.6, φ2.7, φ2.8, φ2.9	

CHSS Group					
		Code No.	Model	I.D. (mm)	Compatible model
		93010	CHSS-1.0	φ1.0	EMA-3020S · PMA-3013S QC3-SS (NRR3060-QC / NR3060-AQC)
		93015	CHSS-1.5	φ1.5	
		93020	CHSS-2.0	φ2.0	
		93025	CHSS-2.5	φ2.5	
		93092	CHSS-2.35	φ2.35	
		93030	CHSS-3.0	φ3.0	
93093	CHSS-3.175	φ3.175			

E4000

E3000

E2000

iSpeed3

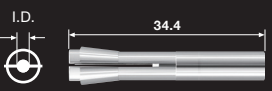
Air-Speed

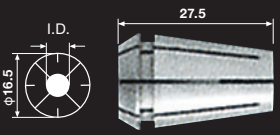
HES

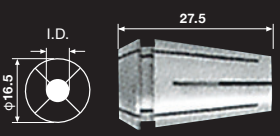
TURBINES

ACCESSORIES

Collet


CH8 Group				
	Code No.	Model	I.D. (mm)	Compatible model
	91092	CH8-2.35	φ2.35	RA-100 · RA-151E
	91030	CH8-3.0	φ3.0	
	91093	CH8-3.175	φ3.175	
	910 □□	CH8-□□	φ0.8, φ0.9	
			φ1.0, φ1.5, φ2.0, φ2.5	
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				


CH16 Group				Fit nut: CHN-16
 <p>*CH16-10.0 Length 24.5</p>	Code No.	Model	I.D. (mm)	Compatible model
	93130	CH16-3.0	φ3.0	BMS-4020 / 2M · BMS-4020RA BMS-4040 / 2M BMS-4040-RGD-03M / 2M BMS-4040RA-RGD-03M / 2M BMS-4040RA · NR-4040 QC5-16 (NRR4040-QC / NR4040-AQC)
	93193	CH16-3.175	φ3.175	
	93140	CH16-4.0	φ4.0	
	93160	CH16-6.0	φ6.0	
	93196	CH16-6.35	φ6.35	
	93180	CH16-8.0	φ8.0	
	93100	CH16-10.0	φ10.0	

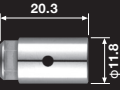
CH16OH Group				Fit nut: CHN-16
 <p>*CH16OH-9.0, 10.0 Length 24.5</p>	Code No.	Model	I.D. (mm)	Compatible model
	93330	CH16OH-3.0	φ3.0	BMS-4020-MQL / 2M BMS-4040-MQL / 2M
	93331	CH16OH-3.175	φ3.175	
	93340	CH16OH-4.0	φ4.0	
	93350	CH16OH-5.0	φ5.0	
	93360	CH16OH-6.0	φ6.0	
	93363	CH16OH-6.35	φ6.35	
	93370	CH16OH-7.0	φ7.0	
	93380	CH16OH-8.0	φ8.0	
	93390	CH16OH-9.0	φ9.0	
	93400	CH16OH-10.0	φ10.0	


Collet nut


Order by Code No.


CHN-A				Fit collet: CHA Group
	Code No.	Model	Description	Compatible model
	2102	CHN-A	Collet nut for CHA collet	QC3-A (NRR3060-QC / NR3060-AQC)
				EM20-S6000 · EM25-S6000 EMS-3060A · NR-3080S MSS-19 · MSS-20 · MSS-22 PMS-3020A HES810 series iSpeed3 series

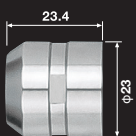
CHN-AA				Fit collet: CHA Group
	Code No.	Model	Description	Compatible model
	2159	CHN-AA	Collet nut for CHA collet	HTS series

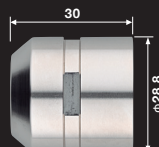
CHN-CTA				Fit collet: CHA Group
	Code No.	Model	Description	Compatible model
	7798	CHN-CTA-3.0	Collet nut for CHA collet	CTS-2630 / 2620A / 3030
		CHN-CTA-3.175		
		CHN-CTA-4.0		

CHN-3A				Fit collet: CHA Group
	Code No.	Model	Description	Compatible model
	2160	CHN-3A	Collet nut for CHA collet	ABT series · Xpeed1600

K-265				Fit collets: CHK Group, CHK-OH Group
	Code No.	Model	Description	Compatible model
	2129	K-265	Collet nut for CHK collet	CTM-4020 BMS-4020-MQL-CHK / 2M BMS-4040-MQL-CHK / 2M QC5-K (NRR4040-QC / NR4040-AQC) QC3-K (NRR3060-QC / NR3060-AQC) EM30-S6000 · EMA-3020K · EMR-3008K EMS-3060K · NR-403E · NR-453E NR-2551 · NR-3060 · NR-3060S NRF-3060S · RAS-151E · RAX-71E RAX-271E MSS-25 · MSST-23 NR-303 · NR-311 · NR-2351 · RAS-101 PMA-3013K · PMR-3005K · PMS-3020K HES510 series PLANET series

K-265A				Fit collet: CHK Group
	Code No.	Model	Description	Compatible model
	2158	K-265A	Collet nut for CHK collet	NRAF-5080 Xpeed1200

CHN-16				Fit collets: CH16 Group, CH16OH Group
	Code No.	Model	Description	Compatible model
	2161	CHN-16	Collet nut for CH16 collet	BMS-4020 / 2M · BMS-4020-MQL / 2M BMS-4020RA · BMS-4040 / 2M BMS-4040-MQL / 2M · BMS-4040RA BMS-4040RA-RGD-03M / 2M BMS-4040-RGD-03M / 2M · NR-4040 QC5-16 (NRR4040-QC / NR4040-AQC)

CHN-20				Recommended : REGO-FIX ER20/ER20UP
	Code No.	Model	Description	Compatible model
	7914	CHN-20	Collet nut for BMS-5010 collet	BMS-5010 / RA

E4000

E3000

E2000

iSpeed3

Air-Speed

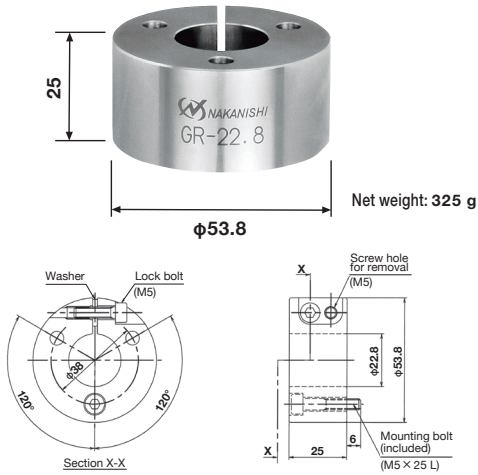
HES

TURBINES

ACCESSORIES

Grip ring

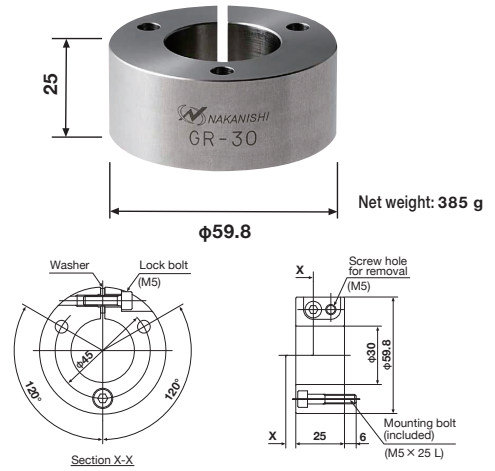
GR-22.8



Code No.	1888	Model	GR-22.8
Standard accessories	Mounting bolt (M5 × 25 L): 3 pcs.		
Compatible model	φ22.8 mm Spindle		

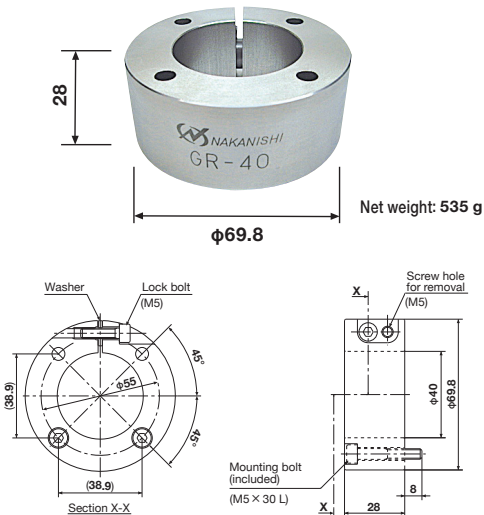
*GR-22.8 cannot be used with NR-311.

GR-30



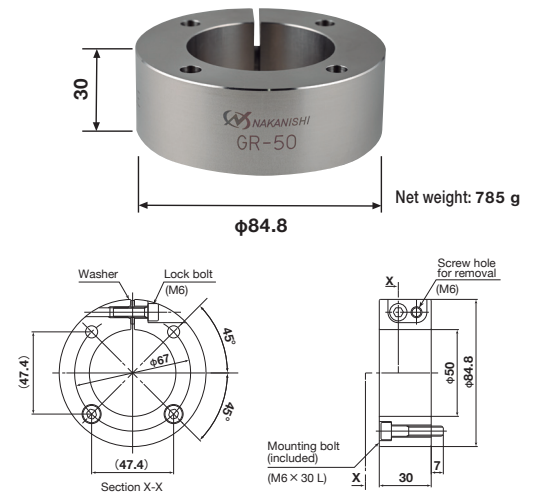
Code No.	1885	Model	GR-30
Standard accessories	Mounting bolt (M5 × 25 L): 3 pcs.		
Compatible model	φ30 mm Spindle		

GR-40



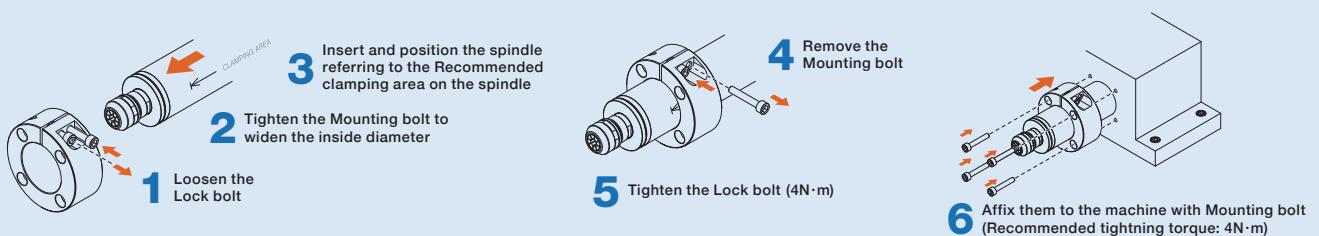
Code No.	1886	Model	GR-40
Standard accessories	Mounting bolt (M5 × 30 L): 4 pcs.		
Compatible model	φ40 mm Spindle		

GR-50



Code No.	1889	Model	GR-50
Standard accessories	Mounting bolt (M6 × 30 L): 4 pcs.		
Compatible model	φ50 mm Spindle		


How to mount to a machine tool



*The above figure shows GR-40 and GR-50, while GR-22.8 and GR-30 require three mounting bolts.


Spacer

Order by Code No.

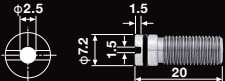
Spacer	Code No.	Model	Description / Description (I.D. × T)	Compatible model
	1882	SP-22 × 10 L	Spacer ($\phi 22 \times 10$ mm)	BM-322FL · BM-322FR

Bush

Bushings to allow smaller diameter spindles to be mounted in larger diameter holders

Bush	Code No.	Model	Description / Dimensions (I.D. × O.D. × L)	Compatible model
	1887	RB-19.05 × 25.4 × 36 L	$\phi 25.4$ Bush ($\phi 19.05 \times \phi 25.4 \times 36$ mm)	BM-319 · BM-319F · BMF-319 · BMJ-319 MSS-1902R / RA · MSS-1908R / RA MSS-1930R / RA
	1877	RB-20 × 22	$\phi 22$ Bush ($\phi 20 \times \phi 22 \times 40$ mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1876	RB-20 × 22.8	$\phi 22.8$ Bush ($\phi 20 \times \phi 22.8 \times 40$ mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1875	RB-20 × 23	$\phi 23$ Bush ($\phi 20 \times \phi 23 \times 40$ mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1878	RB-20 × 25	$\phi 25$ Bush ($\phi 20 \times \phi 25 \times 40$ mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1879	RB-20 × 25.4	$\phi 25.4$ Bush ($\phi 20 \times \phi 25.4 \times 40$ mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1883	RB-22 × 25 × 34 L	$\phi 25$ Bush ($\phi 22 \times \phi 25 \times 33.5$ mm)	BM-322 · BM-322FL · BM-322FR BM-322FS · BMF-322 · BMJ-322
	1884	RB-22 × 25.4 × 34 L	$\phi 25.4$ Bush ($\phi 22 \times \phi 25.4 \times 33.5$ mm)	BM-322 · BM-322FL · BM-322FR BM-322FS · BMF-322 · BMJ-322
	1872	RBS-22.8 × 25	$\phi 25$ Bush ($\phi 22.8 \times \phi 25 \times 25$ mm)	AMH-301 · NR-303 · NR-311 · NR-2351 RA-200 · RAS-101
	1871	RB-22.8 × 25	$\phi 25$ Bush ($\phi 22.8 \times \phi 25 \times 44$ mm)	RA-100
	1874	RBS-22.8 × 25.4	$\phi 25.4$ Bush ($\phi 22.8 \times \phi 25.4 \times 25$ mm)	AMH-301 · NR-303 · NR-311 · NR-2351 RA-200 · RAS-101
	1873	RB-22.8 × 25.4	$\phi 25.4$ Bush ($\phi 22.8 \times \phi 25.4 \times 44$ mm)	RA-100
	1880	RB-30 × 32	$\phi 32$ Bush ($\phi 30 \times \phi 32 \times 45$ mm)	NR-3060 · NR-3060S · NR-403E
	1881	RB-30 × 36	$\phi 36$ Bush ($\phi 30 \times \phi 36 \times 45$ mm)	NR-3060 · NR-3060S · NR-403E

Adjuster bolt

Adjuster bolt	Code No.	Model	Description	Compatible model
	7739	ADJUSTER BOLT	Adjuster bolt	BMS-4020-MQL-CHK / 2M BMS-4040-MQL-CHK / 2M

E4000

E3000

E2000

iSpeed3

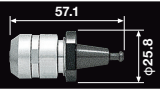
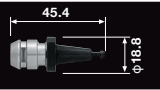
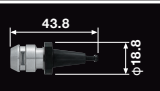
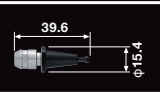
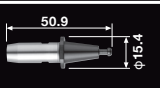
Air-Speed

HES

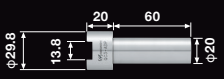


TURBINES

ACCESSORIES

Collet holder

Collet holder	Code No.	Model	Description	Compatible model
	9216	QC5-16	Collet holder for CH16 *with CHN-16	NR4040-AQC · NRR4040-QC
	9225	QC5-16-R		
	9215	QC5-K	Collet holder for CHK *with K-265	
	9224	QC5-K-R		
	9210	QC3-K	Collet holder for CHK *with K-265	NR3060-AQC · NRR3060-QC
	9223	QC3-K-R		
	9209	QC3-A	Collet holder for CHA *with CHN-A	
	9222	QC3-A-R		
	7794	QC3-SS	Collet holder for CHSS	

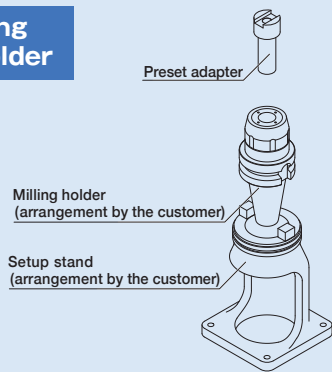
Preset adapter

Preset adapter	Code No.	Model	Description	Compatible collet holder
	9211	QC3-ADP	Preset adapter for QC3	QC3-A · QC3-K · QC3-SS
	9218	QC5-16 ADP	Preset adapter for QC5-16	QC5-16
	9217	QC5-K ADP	Preset adapter for QC5-K	QC5-K

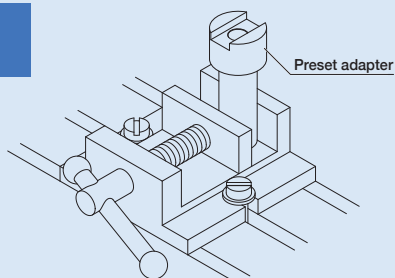
Set-up outside machines

1

In case using a milling holder



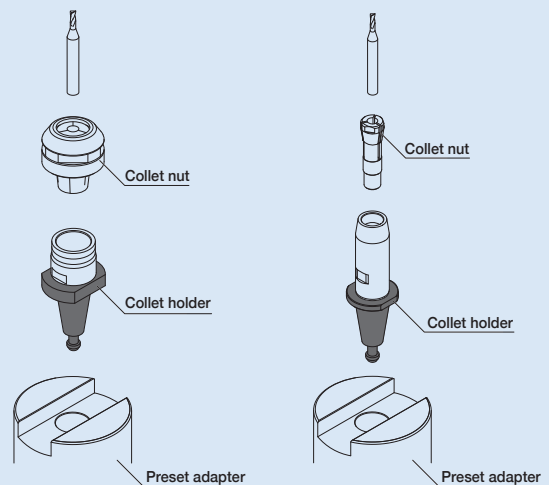
In case using a vice



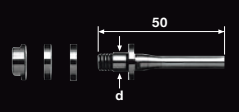
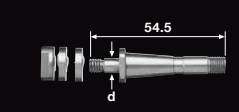
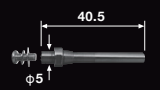


2

For QC3-K/A
QC5-16/K





For QC3-SS



Metal saw arbor · Grindstone arbor · Grindstone flange

Metal saw arbor	Code No.	Model	Description / Specifications	Compatible model	
	2146	KCH-02 (5.0)	φ5.0 (I.D.)	Metal saw arbor : for φd (I.D.) × φ30 mm or less (O.D.) Run-out accuracy: within 0.02 mm	
	1077	KCH-02 (6.0)	φ6.0 (I.D.)		RA-100 · RA-151E
	2147	KCH-02 (8.0)	φ8.0 (I.D.)		
	2148	KCH-03 (5.0)	φ5.0 (I.D.)	Metal saw arbor : for φd (I.D.) × φ30 mm or less (O.D.) Run-out accuracy: within 0.02 mm	
	2130	KCH-03 (6.0)	φ6.0 (I.D.)		EM30-S6000 · EMA-3020K · EMR-3008K EMS-3060K · MSS-25 · MSST-23 · NR-303 · NR-311 NR-403E · NR-453E · NR-2351 · NR-2551 · NR-3060 NR-3060S · NRF-3060S · PMA-3013K · PMR-3005K PMS-3020K · RAS-101 · RAS-151E RAX-71E · RAX-271E
	2149	KCH-03 (8.0)	φ8.0 (I.D.)		
Grindstone arbor	Code No.	Model	Description / Specifications	Compatible model	
	1029	AGM-01	Grindstone arbor Run-out accuracy: within 0.02 mm Grindstone I.D. φ5.0 mm	AMH-301 · NR-601	
	2131	AGM-03	Grindstone arbor Run-out accuracy: within 0.02 mm Grindstone I.D. φ5.0 mm	EM30-S6000 · EMA-3020K · EMR-3008K EMS-3060K · MSS-25 · MSST-23 · NR-303 · NR-403E NR-453E · NR-2351 · NR-2551 · NR-3060 · NR-3060S NRF-3060S · PMA-3013K · PMS-3020K · RAS-101 RAS-151E · RAX-71E · RAX-271E	
Grindstone flange	Code No.	Model	Description / Specifications	Compatible model	
	2138	EGF-19	Grindstone flange Available grindstone dimension φ19.05 (I.D.) × φ40 (O.D.) mm × 7 (width) mm	EM30-S6000 · EMR-3008K · EMS-3060K NR-403E · NR-453E · NR-2551 · NR-3060 · NR-3060S NRF-3060S · PMS-3020K	
	2143	NGF2-19	Grindstone flange Available grindstone dimension φ19.05 (I.D.) × φ40 (O.D.) mm × 7 (width) mm	NR-311	

Grease · Oil

Grease	Code No.	Model	Description	Compatible model
	1547	—	Grease for Speed reducer (2.5 mL)	ARG-011E · ARG-021E EMR-3008K · EMA-3020K RAX-271E · RAX-71E PMR-3005K
	1550	—	Grease for Speed reducer (10 mL)	
	1549	—	Grease for Speed reducer (100 mL)	
Oil	Code No.	Model	Description	Compatible model
	1057	K-211	Lubricating oil (70 cc)	Air line kit (AL-M1201BL · AL-M1202 · AL-M1203BS2)
	1058	K-202	Lubricating oil (1 L)	

COMBOX

Code No.

8495

Model

COMBOX

- By connecting the COMBOX to a CITIZEN "Cincom" CNC automatic lathe, iSpeed3 and E3000 motors can be easily operated by using the external M code signal.



Specifications	Input voltage: DC24 V (DC23-25 V) Dimensions: W142 × D240 × H31 mm / Net weight: 1.2 kg
Standard equipment and accessories	I/F Cable (High density D-SUB 15 connector): 1 pc. Cable D · E · F: 1 pc. each / Relay: 1 pc. Screw · Nut: 2 pcs. each / Connector cap: 4 pcs.
Compatible controllers	E3000 controller · iSpeed3 controller
External connecting device	CNC automatic lathe For details, please contact us or your local distributor.

Network Interface

COMBOX-NET.EIP

Easy IoT remote control and management of Nakanishi Spindle via EtherNet/IP.

Easy connection to a robot or special-purpose machine tool's PLC with a single LAN cable.

Code No.	7796	Model	COMBOX-NET.EIP
Code No.	7906	Model	COMBOX-NET D-sub Cable Set



EtherNet/IP™ is a trademark of ODVA, Inc.

Feature 1 Remote management through IoT

• Easy remote error/warning display

Error or warning output from the controller can be easily displayed remotely. *Display contents vary depending on S/N

• Up to 4 sensors (digital × 2, analog × 2) can be connected

Various commercially available sensors can be added and used for condition monitoring.



PLC display example

Feature 2 Reduce design and production work hours

• Connectable to Ethernet/IP compatible devices via LAN cable

*Support for other protocols is pending

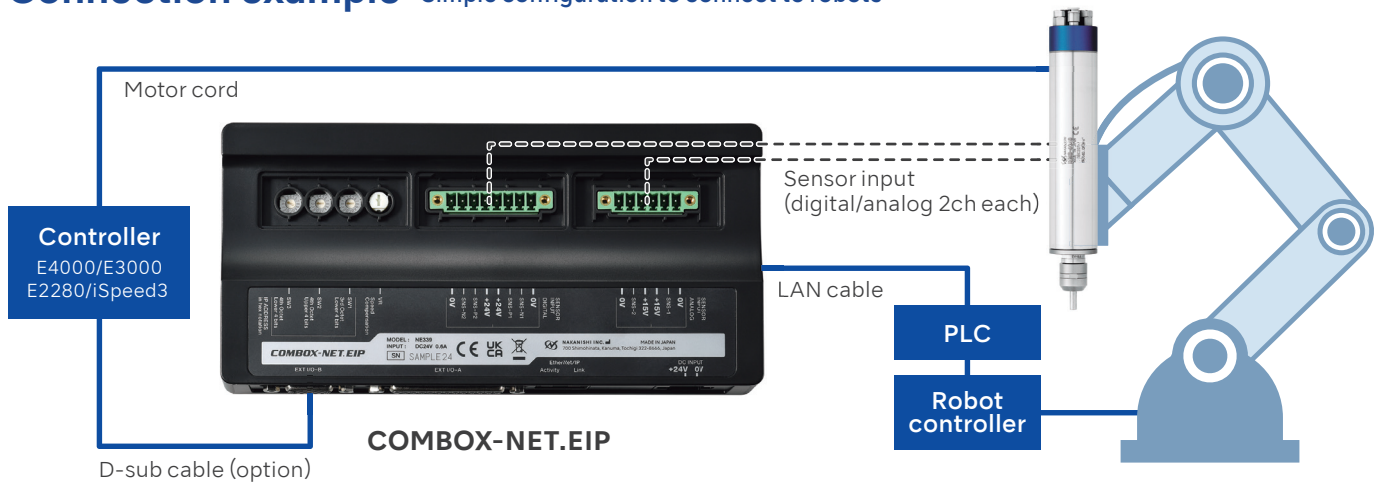
• Reduction of the number of lines in the ladder program in PLCs is possible

• I/O-related devices are no longer needed, reducing the amount of wiring required

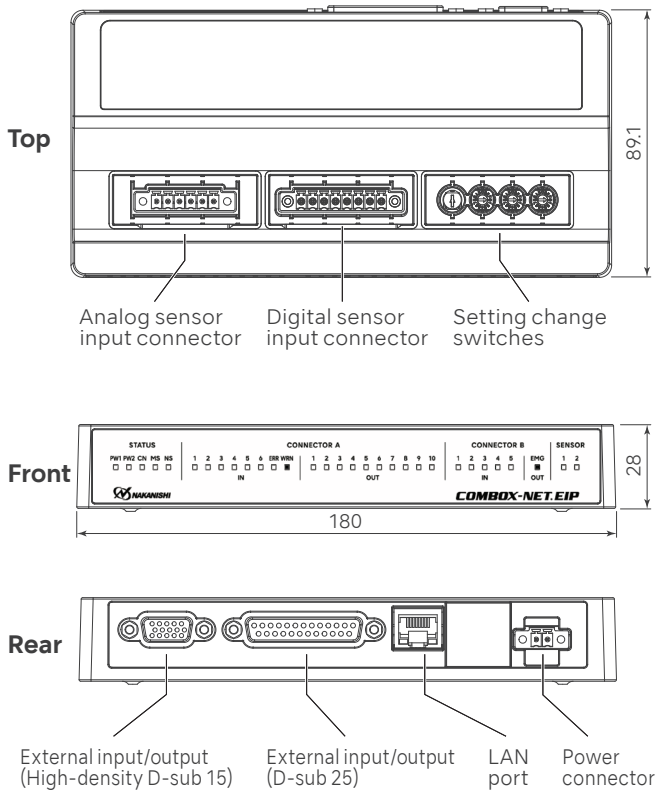
33% reduction in work hours
(compared to in-house measurements)



Connection example Simple configuration to connect to robots



Outside view



Specifications

Communication standard	EtherNet/IP
Baud rate	10 Mbps / 100 Mbps
Communication cycle (RPI)	4 ms or more
LAN cable specifications	Straight, category 5 or higher (STP cable recommended)
Rated input voltage	DC 24 V±10%
Dimensions	W180 × D89.1 × H28 mm
Net weight	282 g

Basic package

COMBOX-NET.EIP Main Body	1 pc.
Bracket	1 pc.
Mounting screw	4 pcs.
Power connector	1 pc.
Protect covers	Attached on the main body

Code No. **7796** Model COMBOX-NET.EIP

*D-sub cables are sold separately.

Option

Code No. **7906** Model COMBOX-NET D-sub Cable Set

D-sub 15 cable (500 mm) and D-sub 25 cable (500 mm)

*Since D-sub cable has special size, we recommend the above product.

Compatible controllers

Connectable to all 4 models
All inputs and outputs are handled via network communication.



E4000 controller
S/N: E*****



E3000 controller
S/N: G*****



E2280 controller
S/N: B*****



iSpeed3 controller
S/N: C*****

*Controllers with the above S/Ns or later will display an error or warning code.
Controllers with the S/Ns prior to the above will only indicate the presence or absence of an error or warning.

EKA | COMMERCE

Elektronische Einkaufsplattform

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 Aufnahmen Werkzeughalter Spannzangen Werkzeughalter Zubehör Zeige alle	 Ersatzteile & Rohlinge Fräser Rohlinge Ersatzteile Zerspanungswerkzeuge Zeige alle	 Entgraten & Stoßen Deburring Stoßen Zeige alle	 Messmittel & sonstige Werkzeuge Mess- & Prüfmittel Sonstige Werkzeuge Reinigungsmittel Schmiermittel Arbeitsschutz Zeige alle

EKA | COMMERCE

Elektronische Einkaufsplattform



Kundenspezifische Preise



Lagerverfügbarkeiten in Echtzeit



Technische Werkzeugdaten on demand



Hohe Benutzerfreundlichkeit: 3-4 Klicks zum Werkzeug



Experten-Chat in Echtzeit



Favoritenlisten



Bestellhistorie



weitere folgen



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