

E4000



E4000 SERIES

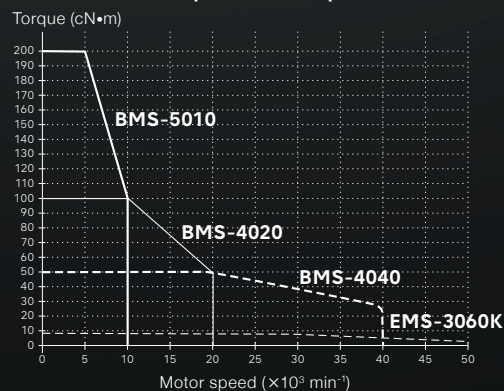
HIGH-SPEED ROTATION & HIGH PRECISION

Little Giant

The Strongest Spindle in its $\phi 40$ mm class

- Max. power: 1,200 W
- Max. motor speed: 40,000 min^{-1}
- The torque is 5-20 times higher than that of E3000

E4000 & E3000 torque curve comparison



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

1Speed3

Air-Speed

HES

TURBINES





ACCESSORIES

Index





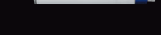




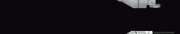
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Motor spindle (One-piece type)

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Safety relay box

Motor cord



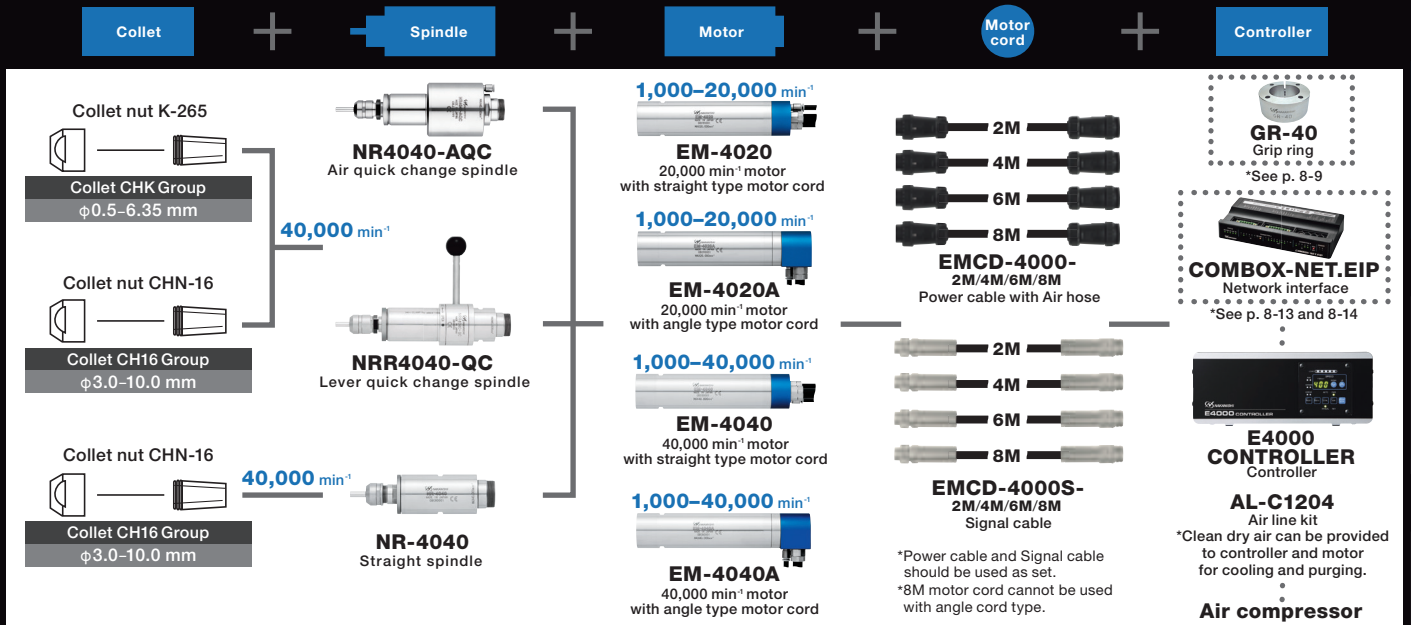
EMCD-4000 ... p. 1-26
Power cable with Air hose [Length] 2 m, 4 m, 6 m, 8 m



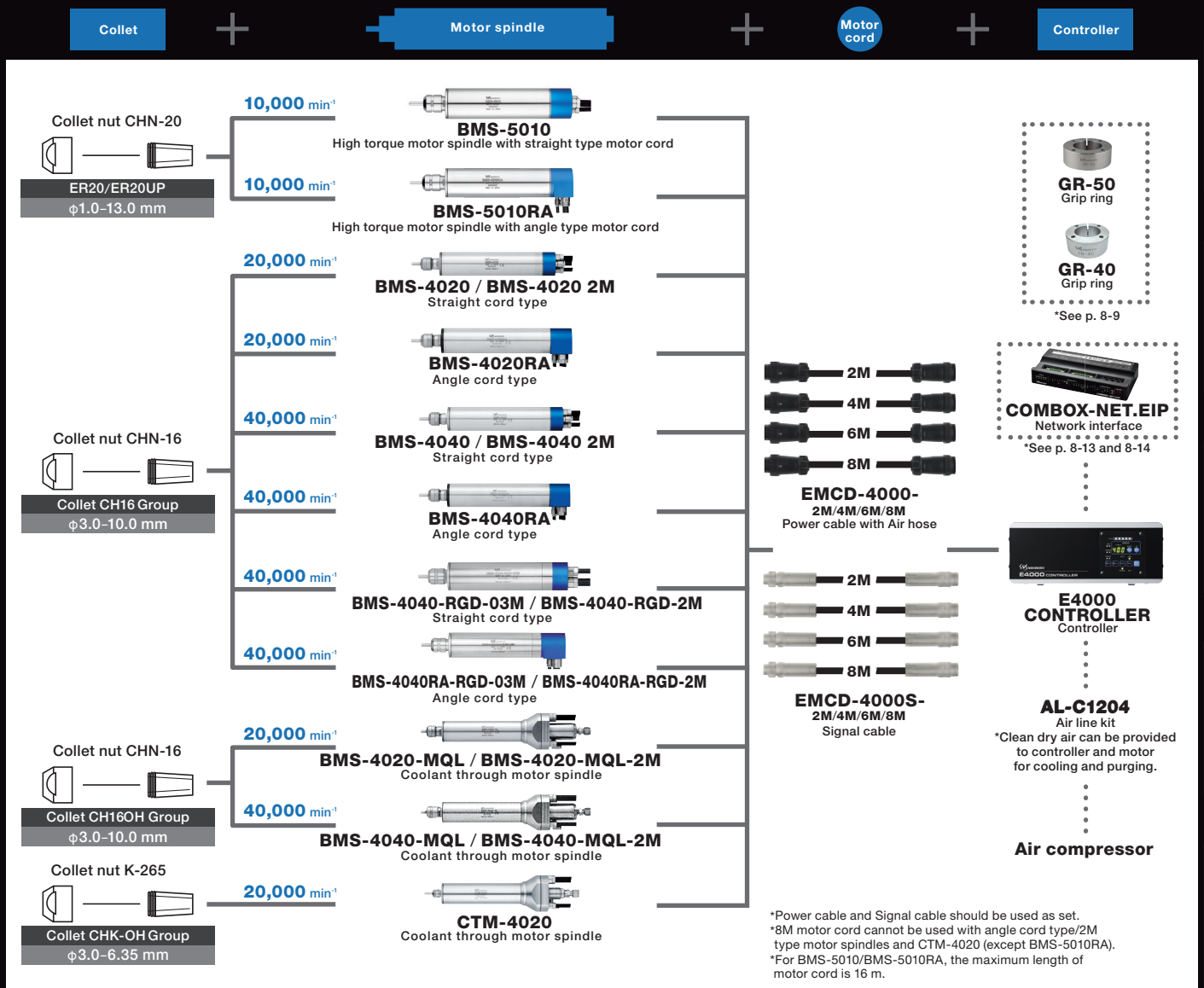
EMCD-4000S ... p. 1-26
Signal cable [Length] 2 m, 4 m, 6 m, 8 m

System Chart

Modular type $\phi 40$ mm



One-piece type $\phi 50, \phi 40$ mm



E4000

E3000

E2000

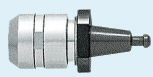
1Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
GuideCH16
CHKQC5-16 / QC5-16-R
QC5-K / QC5-K-R

NR4040-AQC



E4000 SERIES

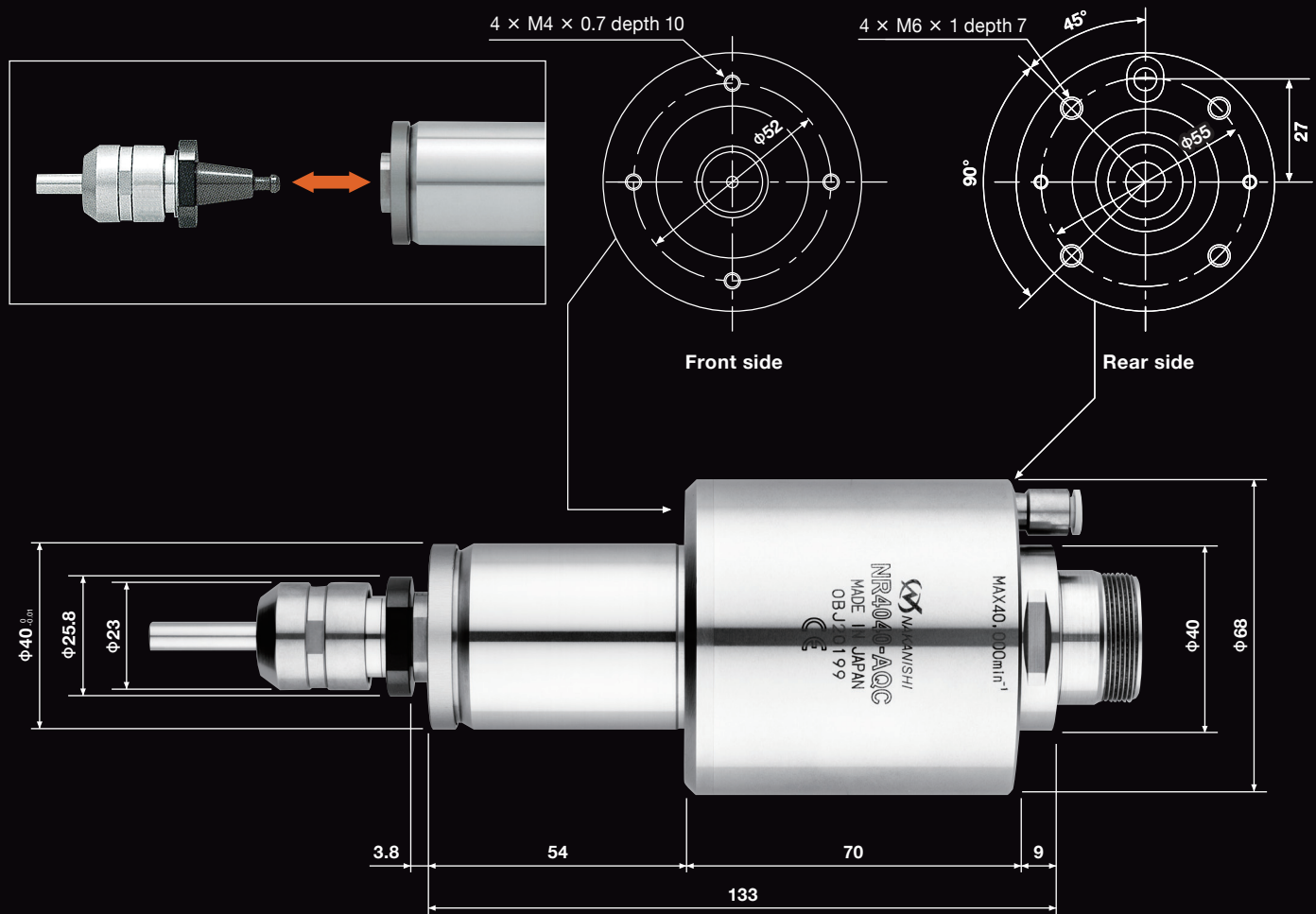
Spindle (Modular type)

NR4040-AQC

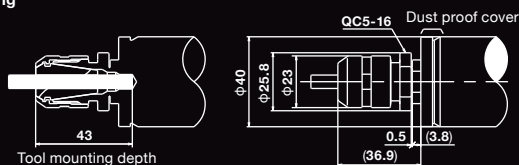
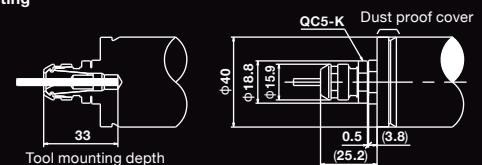
Air quick change spindle

O.D. $\phi 40$ mm

- Quick and easy Collet holder change with air chucking mechanism.
 - Enhancing productivity by enabling external tool set-up.
 - 2 types of Collet holders are available. (CH16 $\phi 3.0$ – $\phi 10.0$ mm, CHK $\phi 0.5$ – $\phi 6.35$ mm)
- *The position of the mounting holes in front side and the rear side varies from product to product.



Outside view of the tip of the spindle

■ QC5-16 (Collet holder for CH16 collet)
when mounting■ QC5-K (Collet holder for CHK collet)
when mounting

EM-4020 / EM-4040

EM-4020A / EM-4040A

Power cable 2M/4M/6M/8M

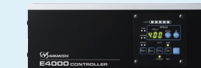
Signal cable 2M/4M/6M/8M

EMCD-4000 / EMCD-4000S

Power cable 2M/4M/6M

Signal cable 2M/4M/6M

EMCD-4000 / EMCD-4000S



E4000 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

NR4040-AQC

Code No.

9219

Model

NR4040-AQC



O.D.	Spindle accuracy	Allowable motor speed	Air for collet opening	Net weight
φ40 mm	Within 1 μm	40,000 min ⁻¹	0.55–0.6 MPa	2,160 g
Motors			Collet holders	
EM-4020 · EM-4020A · EM-4040 · EM-4040A			QC5-16 / QC5-16-R (for CH16 collet)	QC5-K / QC5-K-R (for CHK collet)
Standard equipment and accessories		Wrench (36): 1 pc. / Air hose with filter (K-251): φ6 mm × 2 m		

Options

Collet	You can choose the I.D. size (The following is an example of φ6.0 mm.)		Collet holder (Collet nut included)		Wrench
			D-Cut		
CH16 I.D. φ3.0–φ10.0 mm p. 8-7	Code No.	931 6 0	9216	9225	2083
	Model	CH16-6.0 (I.D. φ6.0 mm)	QC5-16 (for CH16 collet)	QC5-16-R (for CH16 collet)	Wrench 17 × 22 (*Required 2 pcs.)
CHK I.D. φ0.5–φ6.35 mm p. 8-5	Code No.	91 5 6 0	9215	9224	2026
	Model	CHK-6.0 (I.D. φ6.0 mm)	QC5-K (for CHK collet)	QC5-K-R (for CHK collet)	Wrench 12 × 14 (*Required 2 pcs.)

Preset adapter (for QC5-16 / QC5-K Collet holders)	Code No.	9218	Code No.	9217
		Model	QC5-16 ADP (for QC5-16 Collet holder)	Model

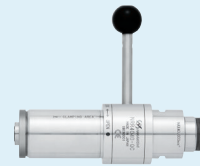
*Holding section size is φ20.
*QC5-16-R / QC5-K-R cannot be used with the Preset adapter.

[Use below wrenches when using Preset adapter]

for CH16 collet: Wrench 17 × 22 (1 pc.)

for CHK collet: Wrench 12 × 14 (1 pc.)

See p. 8-11

Spindle
GuideCH16
CHKQC5-16 / QC5-16-R
QC5-K / QC5-K-R

NRR4040-QC



E4000 SERIES

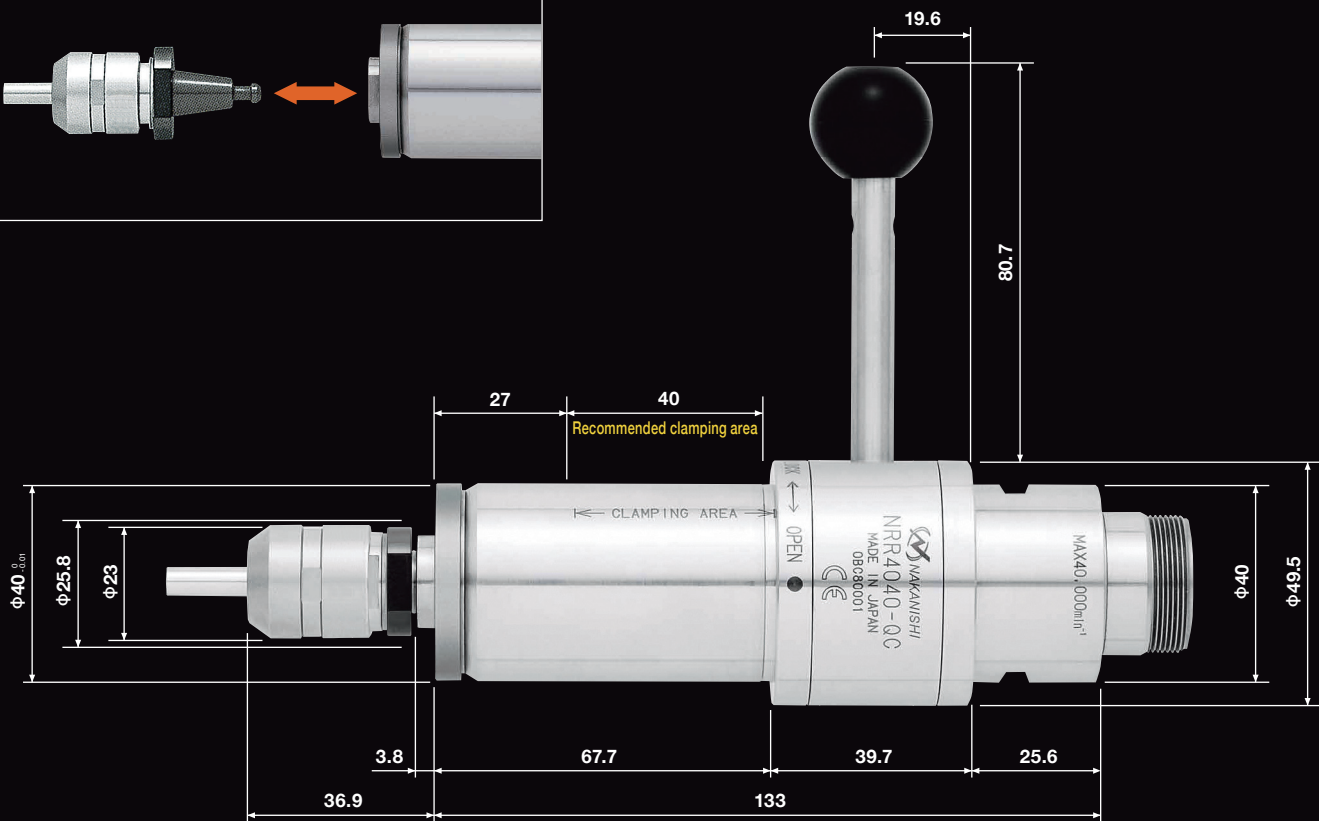
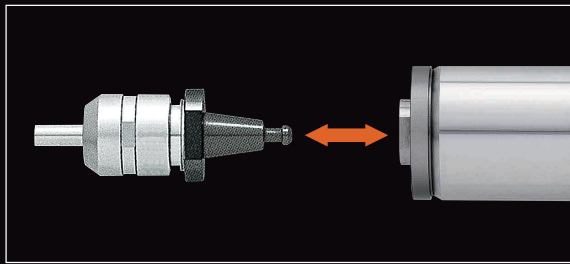
Spindle (Modular type)

NRR4040-QC

Lever quick change spindle

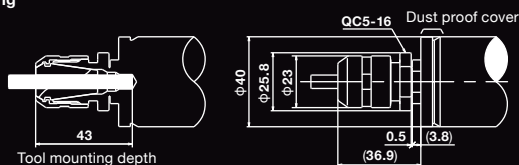
O.D. ϕ 40 mm

- Quick and easy Collet holder change with lever chucking mechanism.
- Enhancing productivity by enabling external tool set-up.
- 2 types of Collet holders are available. (CH16 ϕ 3.0– ϕ 10.0 mm, CHK ϕ 0.5– ϕ 6.35 mm)

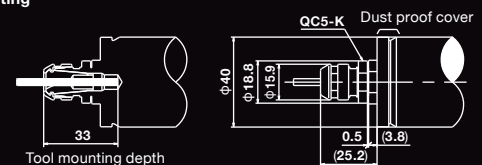


Outside view of the tip of the spindle

■ QC5-16 (Collet holder for CH16 collet)
when mounting



■ QC5-K (Collet holder for CHK collet)
when mounting



EM-4020 / EM-4040

EM-4020A / EM-4040A

Power cable 2M/4M/6M/8M
Signal cable 2M/4M/6M/8M
EMCD-4000 / EMCD-4000SPower cable 2M/4M/6M
Signal cable 2M/4M/6M
EMCD-4000 / EMCD-4000S

E4000 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

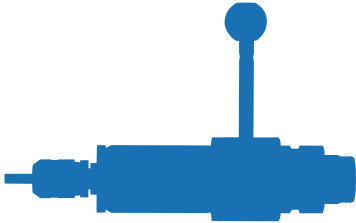
NRR4040-QC

Code No.

9214

Model

NRR4040-QC



O.D.	Spindle accuracy	Allowable motor speed	Lever operating angle	Net weight
φ40 mm	Within 1 μm	40,000 min ⁻¹	90°	1,300 g
Motors			Collet holders	
EM-4020 · EM-4020A · EM-4040 · EM-4040A			QC5-16 / QC5-16-R (for CH16 collet)	QC5-K / QC5-K-R (for CHK collet)
Standard equipment and accessories		Wrench (36): 1 pc.		

Options

Collet	You can choose the I.D. size (The following is an example of φ6.0 mm.)		Collet holder (Collet nut included)	Wrench	
CH16 I.D. φ3.0-φ10.0 mm p. 8-7	Code No.	931 6 0	9216	9225	2083
	Model	CH16-6.0 (I.D. φ6.0 mm)	QC5-16 (for CH16 collet)	or	QC5-16-R (for CH16 collet)
					Wrench 17 × 22 (*Required 2 pcs.)
CHK I.D. φ0.5-φ6.35 mm p. 8-5	Code No.	91 5 6 0	9215	9224	2026
	Model	CHK-6.0 (I.D. φ6.0 mm)	QC5-K (for CHK collet)	or	QC5-K-R (for CHK collet)
					Wrench 12 × 14 (*Required 2 pcs.)

Preset adapter (for QC5-16 / QC5-K Collet holders)	Code No.	9218	Code No.	9217
	Model	QC5-16 ADP (for QC5-16 Collet holder)	Model	QC5-K ADP (for QC5-K Collet holder)

*Holding section size is φ20.
*QC5-16-R / QC5-K-R cannot be used with the Preset adapter.

[Use below wrenches when using Preset adapter]

for CH16 collet: Wrench 17 × 22 (1 pc.)

for CHK collet: Wrench 12 × 14 (1 pc.)

See p. 8-11

Spindle
Guide

CH16



NR-4040

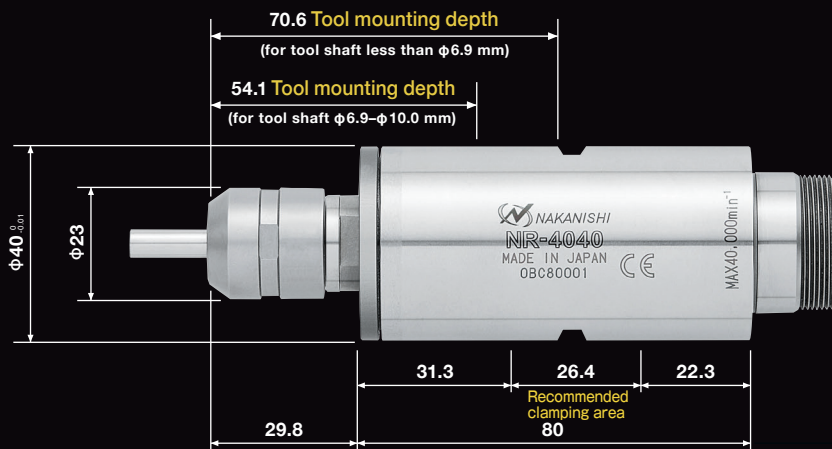


E4000 SERIES

Spindle (Modular type)

NR-4040

Straight spindle

O.D. ϕ 40 mm



EM-4020 / EM-4040



Power cable: 2M/4M/6M/8M
Signal cable: 2M/4M/6M/8M
EMCD-4000 / EMCD-4000S

Power cable: 2M/4M/6M
Signal cable: 2M/4M/6M
EMCD-4000 / EMCD-4000S



E4000 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

NR-4040

Code No.

7902

Model

NR-4040



O.D.	Spindle accuracy	Collet	Allowable motor speed	Motors	Net weight
$\phi 40$ mm	Within 1 μm	CH16 Group ($\phi 3.0$ – $\phi 10.0$ mm)	40,000 min ⁻¹	EM-4020 · EM-4020A EM-4040 · EM-4040A	700 g
Standard equipment and accessories	Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. · (36) 1 pc. *Collet is sold separately.				
Options	Collet (CH16 Group): $\phi 3.0$ – $\phi 10.0$ mm p. 8-7				

E4000

E3000

E2000

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

Motor (Modular type)

EM-4020

20,000 min⁻¹ motor with straight type motor cord



O.D. ϕ 40 mm



EM-4020A

20,000 min⁻¹ motor with angle type motor cord



O.D. ϕ 40 mm



EM-4040

40,000 min⁻¹ motor with straight type motor cord



O.D. ϕ 40 mm



EM-4040A

40,000 min⁻¹ motor with angle type motor cord



O.D. ϕ 40 mm



Specifications

CAD drawings

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

EM-4020

Code No. **8348** Model **EM-4020**

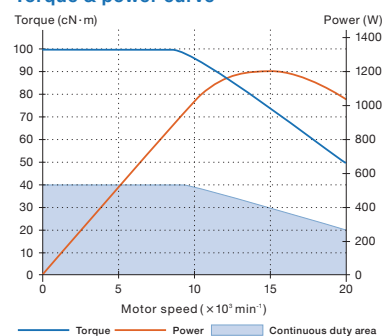
O.D.	Motor speed		Max. power
φ40 mm	1,000–20,000 min⁻¹		1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight
0.3 m	70 mm	1.0 N·m	1,300 g
Standard equipment and accessories	Wrench (36): 1 pc.		
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm		
Options	Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26		

EM-4020A

Code No. **8349** Model **EM-4020A**

O.D.	Motor speed		Max. power
φ40 mm	1,000–20,000 min⁻¹		1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight
2.0 m	70 mm	1.0 N·m	1,800 g
Standard equipment and accessories	Wrench (36): 1 pc.		
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm		
Options	Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259) p. 1-26		

Torque & power curve



EM-4040

Code No. **8346** Model **EM-4040**

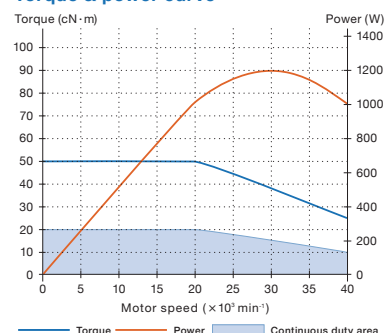
O.D.	Motor speed		Max. power
φ40 mm	1,000–40,000 min⁻¹		1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight
0.3 m	70 mm	0.5 N·m	1,300 g
Standard equipment and accessories	Wrench (36): 1 pc.		
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm		
Options	Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26		

EM-4040A

Code No. **8347** Model **EM-4040A**

O.D.	Motor speed		Max. power
φ40 mm	1,000–40,000 min⁻¹		1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight
2.0 m	70 mm	0.5 N·m	1,800 g
Standard equipment and accessories	Wrench (36): 1 pc.		
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm		
Options	Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259) p. 1-26		

Torque & power curve



E4000

E3000

E2000

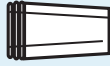
I-Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

ER20UP

*Available in the market



BMS-5010

BMS-5010RA

E4000 SERIES

Motor spindle (One-piece type)

BMS-5010

Straight cord type

O.D. $\phi 50$ mm

- Twice the torque (up to 2 N·m) compared with the current BMS-4020.

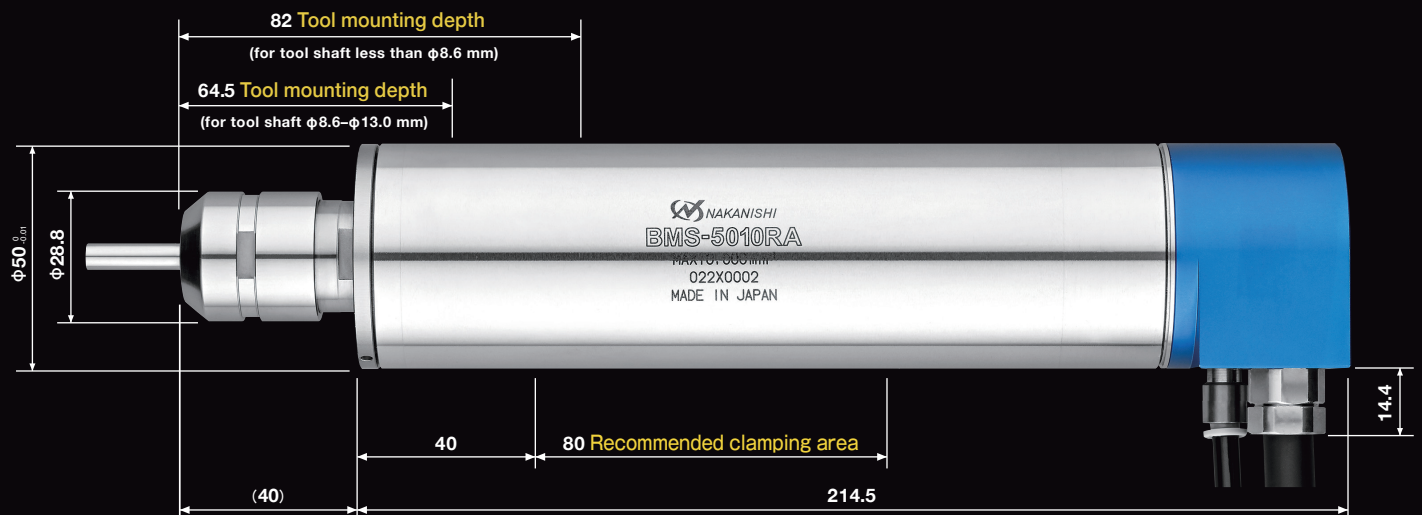


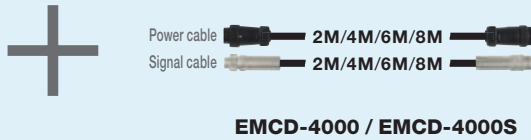
BMS-5010RA

Angle cord type

O.D. $\phi 50$ mm

- Twice the torque (up to 2 N·m) compared with the current BMS-4020.





Order by Code No.

Specifications

CAD drawings

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

BMS-5010

Code No.

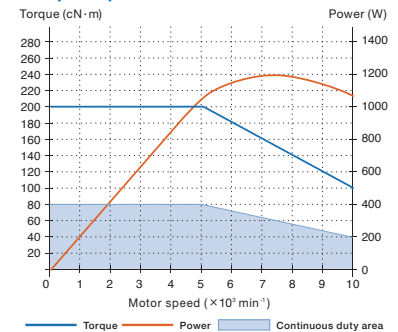
7912

Model

BMS-5010

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ50 mm	10,000 min ⁻¹	Within 1 μm	ER20/ER20UP (φ1.0–φ13.0 mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
0.3 m	70 mm	2.0 N·m	2.4 kg	
Standard equipment and accessories	Collet nut (CHN-20) / Wrench (22 × 27): 2 pcs. *Collet is not included.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm			
Options	Collet (REGO-FIX ER20/ER20UP): φ1.0–φ13.0 mm *Available in the market. Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26			

Torque & power curve



*Maximum length of motor cord for BMS-5010 is 16 m by connecting two 8 m motor cords.



Note to customers who already have an E4000 controller



Non applicable controller



Applicable controller

If BMS-5010/BMS-5010RA are connected to non-applicable controller, it will not rotate.

BMS-5010RA

Code No.

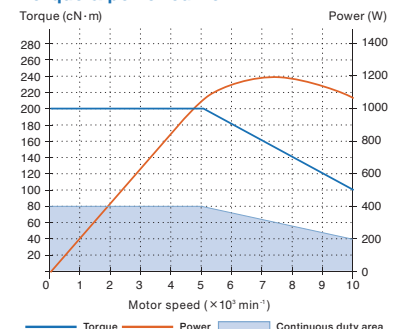
7913

Model

BMS-5010RA

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ50 mm	10,000 min ⁻¹	Within 1 μm	ER20/ER20UP (φ1.0–φ13.0 mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
2.0 m	70 mm	2.0 N·m	2.8 kg	
Standard equipment and accessories	Collet nut (CHN-20) / Wrench (22 × 27): 2 pcs. *Collet is not included.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm			
Options	Collet (REGO-FIX ER20/ER20UP): φ1.0–φ13.0 mm *Available in the market. Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26			

Torque & power curve



*Maximum length of motor cord for BMS-5010RA is 16 m by connecting 6 m and 8 m motor cords, since it has a 2 m motor cord attached to the main unit.



Note to customers who already have an E4000 controller



Non applicable controller



Applicable controller

If BMS-5010/BMS-5010RA are connected to non-applicable controller, it will not rotate.

E4000

E3000

E2000

1Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

CH16



BMS-4020



BMS-4020 2M



BMS-4020RA

E4000 SERIES

Motor spindle (One-piece type)

BMS-4020 / BMS-4020 2M

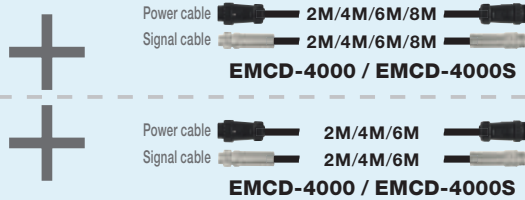
Straight cord type

O.D. ϕ 40 mm

BMS-4020RA

Angle cord type

O.D. ϕ 40 mm



Order by Code No.

Specifications

CAD drawings

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

BMS-4020 / BMS-4020 2M

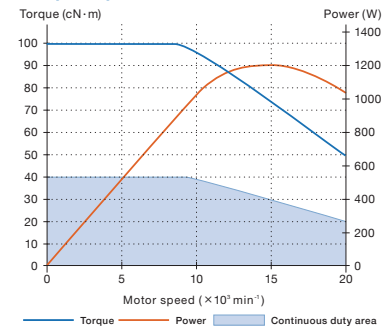


Code No.	7803	Model	BMS-4020
Code No.	7805	Model	BMS-4020 2M

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
$\phi 40$ mm	20,000 min ⁻¹	Within 1 μ m	CH16 Group ($\phi 3.0$ – $\phi 10.0$ mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
BMS-4020: 0.3 m BMS-4020 2M: 2.0 m	70 mm	1.0 N·m	BMS-4020: 1.5 kg BMS-4020 2M: 2.0 kg	
Standard equipment and accessories	Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter $\phi 30$ mm / air hose $\phi 6$ mm Signal cable: connector diameter $\phi 16$ mm			
Options	Collet (CH16 Group): $\phi 3.0$ – $\phi 10.0$ mm p. 8-7 Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26			

*8M motor cord cannot be used with BMS-4020 2M.

Torque & power curve



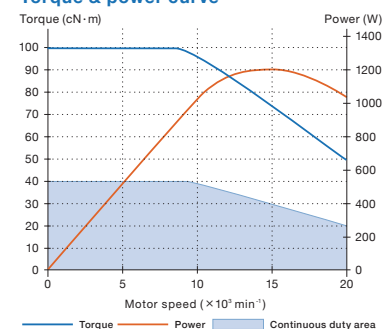
BMS-4020RA

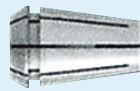


Code No.	7804	Model	BMS-4020RA
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O.D.	Motor speed	Spindle accuracy	Collet	Max. power
$\phi 40$ mm	20,000 min ⁻¹	Within 1 μ m	CH16 Group ($\phi 3.0$ – $\phi 10.0$ mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
2.0 m	70 mm	1.0 N·m	2.0 kg	
Standard equipment and accessories	Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter $\phi 30$ mm / air hose $\phi 6$ mm Signal cable: connector diameter $\phi 16$ mm			
Options	Collet (CH16 Group): $\phi 3.0$ – $\phi 10.0$ mm p. 8-7 Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259) p. 1-26			

Torque & power curve



Spindle
Guide

CH16



BMS-4040



BMS-4040 2M



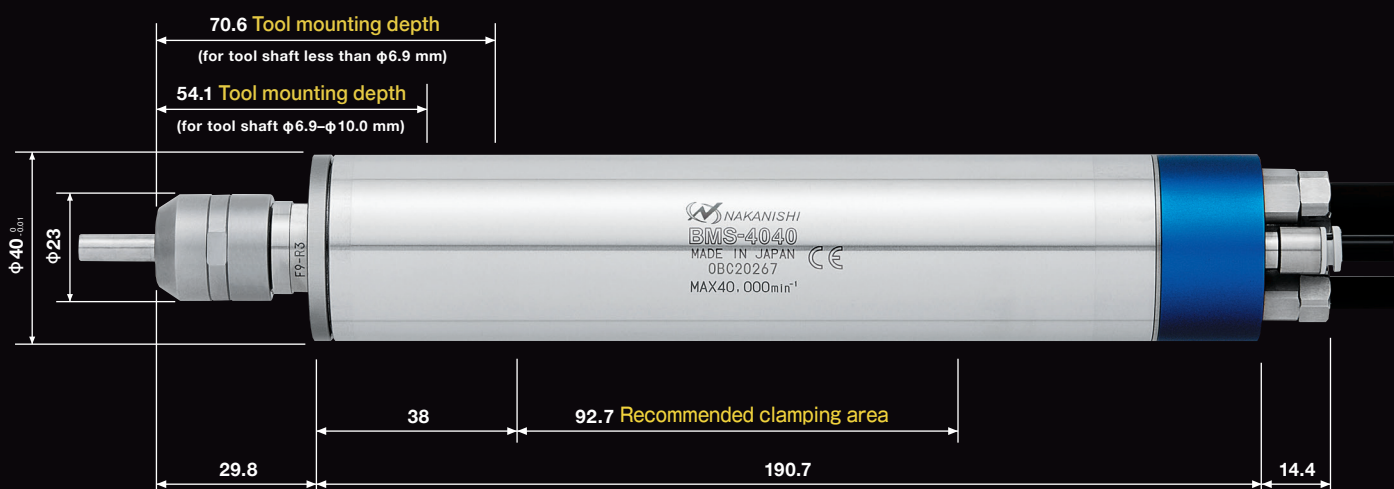
BMS-4040RA

E4000 SERIES

Motor spindle (One-piece type)

BMS-4040 / BMS-4040 2M

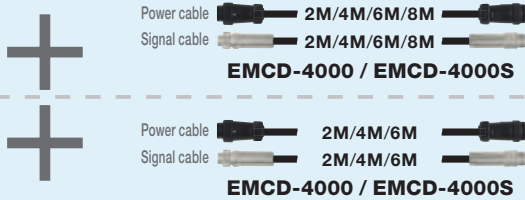
Straight cord type

O.D. ϕ 40 mm

BMS-4040RA

Angle cord type

O.D. ϕ 40 mm



Order by Code No.

Specifications

CAD drawings

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

BMS-4040 / BMS-4040 2M

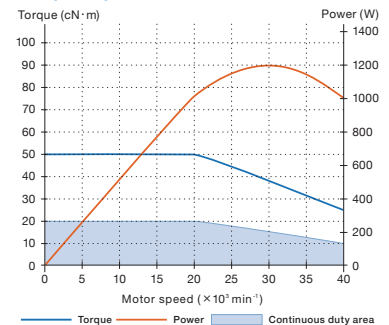


Code No.	7806	Model	BMS-4040
Code No.	7809	Model	BMS-4040 2M

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
$\phi 40$ mm	40,000 min ⁻¹	Within 1 μ m	CH16 Group ($\phi 3.0$ – $\phi 10.0$ mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
BMS-4040: 0.3 m BMS-4040 2M: 2.0 m	70 mm	0.5 N·m	BMS-4040: 1.5 kg BMS-4040 2M: 2.0 kg	
Standard equipment and accessories	Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter $\phi 30$ mm / air hose $\phi 6$ mm Signal cable: connector diameter $\phi 16$ mm			
Options	Collet (CH16 Group): $\phi 3.0$ – $\phi 10.0$ mm p. 8-7 Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26			

*8M motor cord cannot be used with BMS-4020 2M.

Torque & power curve



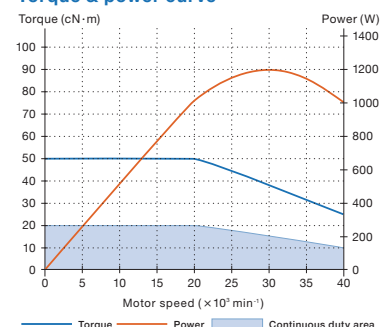
BMS-4040RA



Code No.	7807	Model	BMS-4040RA
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O.D.	Motor speed	Spindle accuracy	Collet	Max. power
$\phi 40$ mm	40,000 min ⁻¹	Within 1 μ m	CH16 Group ($\phi 3.0$ – $\phi 10.0$ mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
2.0 m	70 mm	0.5 N·m	2.0 kg	
Standard equipment and accessories	Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.			
Specifications	Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min Power cable with Air hose: connector diameter $\phi 30$ mm / air hose $\phi 6$ mm Signal cable: connector diameter $\phi 16$ mm			
Options	Collet (CH16 Group): $\phi 3.0$ – $\phi 10.0$ mm p. 8-7 Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259) p. 1-26			

Torque & power curve



E4000

E3000

E2000

1Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

CH16



BMS-4040-RGD-03M



BMS-4040-RGD-2M



BMS-4040RA-RGD-03M



BMS-4040RA-RGD-2M

E4000 SERIES

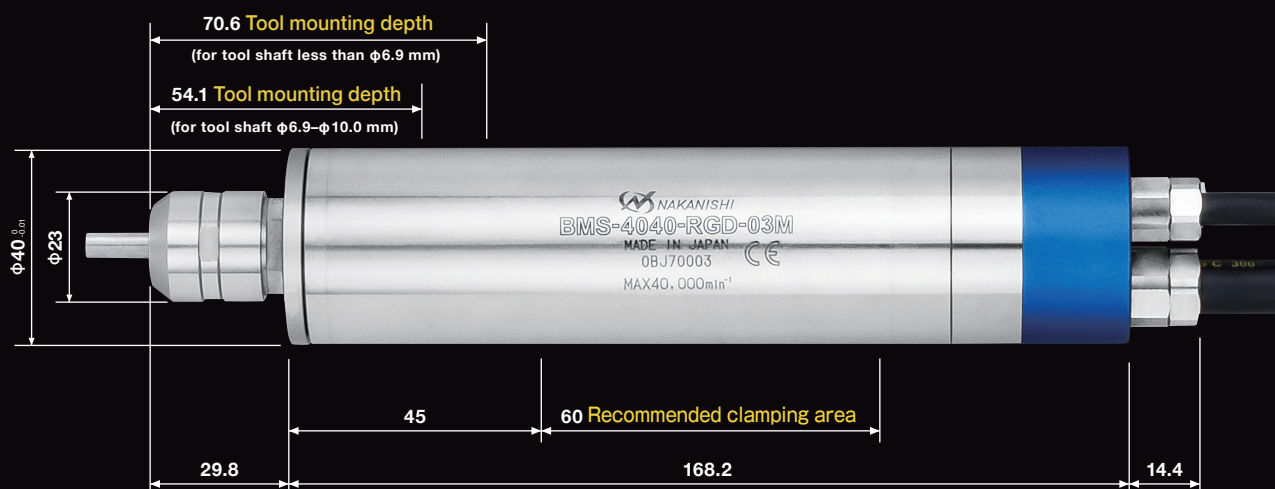
Motor spindle (Rigidity type)

BMS-4040-RGD-03M / BMS-4040-RGD-2M

Straight cord type

O.D. $\phi 40$ mm

- Twice as high rigidity as BMS-4040 in thrust and radial directions.

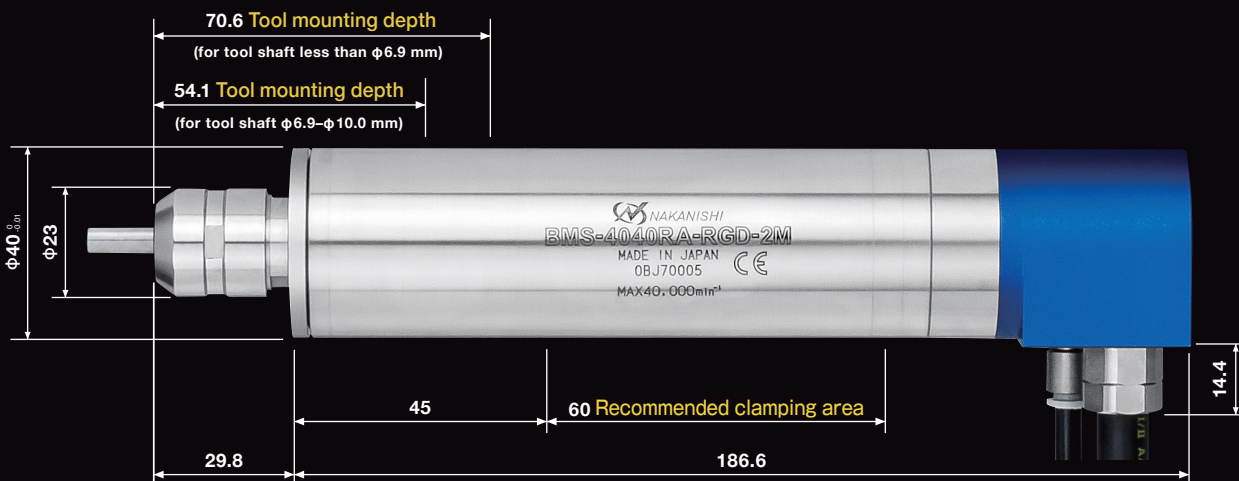


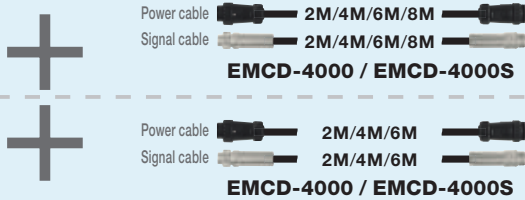
BMS-4040RA-RGD-03M / BMS-4040RA-RGD-2M

Angle cord type

O.D. $\phi 40$ mm

- Twice as high rigidity as BMS-4040 in thrust and radial directions.





E4000 CONTROLLER



AL-C1204

Order by Code No.

Specifications

CAD drawings

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

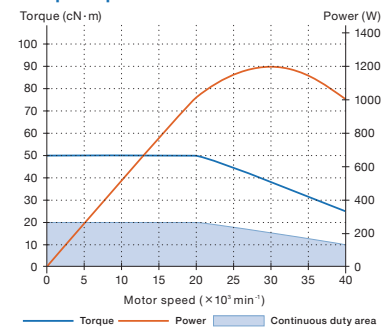
BMS-4040-RGD-03M / BMS-4040-RGD-2M

Code No. **7740** Model **BMS-4040-RGD-03M**Code No. **7769** Model **BMS-4040-RGD-2M**

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ40 mm	40,000 min ⁻¹	Within 1 μm	CH16 Group (φ3.0–φ10.0 mm)	1,200 w
Cord length		Min. bending cord radius	Max. torque	Net weight
BMS-4040-RGD-03M: 0.3 m BMS-4040-RGD-2M: 2.0 m		70 mm	0.5 N·m	BMS-4040-RGD-03M: 1.4 kg BMS-4040-RGD-2M: 1.9 kg
Standard equipment and accessories				
Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.				
Specifications				
Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min				
Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm				
Signal cable: connector diameter φ16 mm				
Options				
Collet (CH16 Group): φ3.0–φ10.0 mm p. 8-7				
Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256)				
Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26				

*8M motor cord cannot be used with BMS-4040-RGD-2M.

Torque & power curve



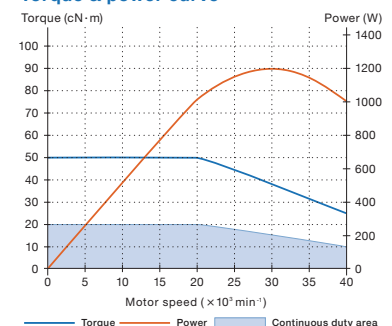
BMS-4040RA-RGD-03M / BMS-4040RA-RGD-2M

Code No. **7741** Model **BMS-4040RA-RGD-03M**Code No. **7770** Model **BMS-4040RA-RGD-2M**

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ40 mm	40,000 min ⁻¹	Within 1 μm	CH16 Group (φ3.0–φ10.0 mm)	1,200 w
Cord length		Min. bending cord radius	Max. torque	Net weight
BMS-4040RA-RGD-03M: 0.3 m BMS-4040RA-RGD-2M: 2.0 m		70 mm	0.5 N·m	BMS-4040RA-RGD-03M: 1.4 kg BMS-4040RA-RGD-2M: 1.9 kg
Standard equipment and accessories				
Collet nut (CHN-16) / Wrench (17 × 22): 2 pcs. *Collet is sold separately.				
Specifications				
Air pressure: 0.35 MPa / Max. air consumption: 100 NL/min				
Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm				
Signal cable: connector diameter φ16 mm				
Options				
Collet (CH16 Group): φ3.0–φ10.0 mm p. 8-7				
Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256)				
Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26				

*8M motor cord cannot be used with BMS-4040RA-RGD-2M.

Torque & power curve



E4000

E3000

E2000

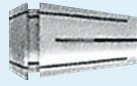
I-Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle
Guide

CH160H



BMS-4020-MQL / BMS-4040-MQL



BMS-4020-MQL-2M / BMS-4040-MQL-2M

E4000 SERIES

Motor spindle (One-piece type: $\phi 3.0$ – $\phi 10.0$ mm)

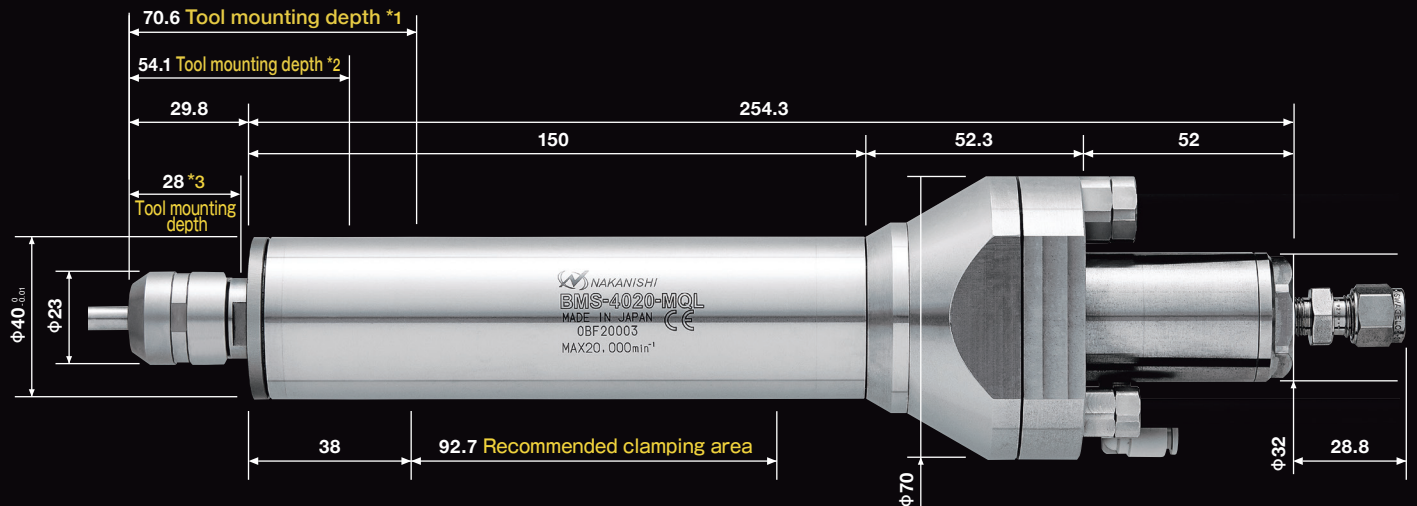
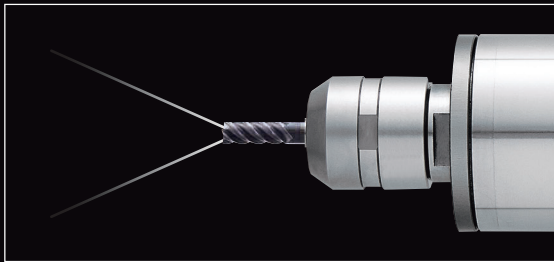
BMS-4020-MQL / BMS-4020-MQL-2M

BMS-4040-MQL / BMS-4040-MQL-2M

Coolant through motor spindle

O.D. $\phi 40$ mm

- Pressurized coolant entered through the back of the spindle and through the cutting tool at a speed of 40,000 RPM.
- Coolant through improves chip clearance, accuracy, productivity and extends tool-life.



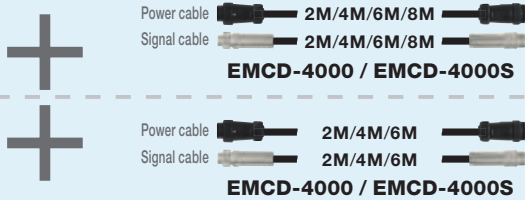
*1: When the shank is between $\phi 4$ mm and less than $\phi 6.9$ mm (through-hole for sizes less than $\phi 4$ mm)

*2: When the shank is $\phi 6.9$ mm to $\phi 10.0$ mm

*3: The tool needs to be inserted more than 28 mm, or the oil leaks



"High pressure coolant device" or "oil mist supply device" must be arranged by the customer.



Order by Code No.

Specifications

CAD drawings

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

BMS-4020-MQL / BMS-4020-MQL-2M

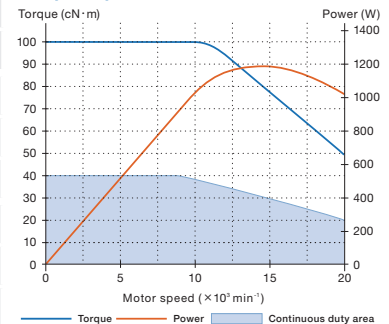


Code No.	7716	Model	BMS-4020-MQL
Code No.	7717	Model	BMS-4020-MQL-2M

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ40 mm	20,000 min⁻¹	Within 1 μm	CH16OH Group (φ3.0–φ10.0 mm)	1,200 w
Cord length		Min. bending cord radius	Max. torque	Net weight
BMS-4020-MQL: 0.3 m BMS-4020-MQL-2M: 2.0 m		70 mm	1.0 N·m	BMS-4020-MQL: 2.3 kg BMS-4020-MQL-2M: 2.8 kg
Standard equipment and accessories				
Collet nut (CHN-16) / Insert / Wrench (17 × 22): 2 pcs. *Collet is sold separately.				
Specifications				
Coolant pressure: 0.2–3.0 MPa / Oil mist pressure: 0.2–1.0 MPa				
Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm				
Signal cable: connector diameter φ16 mm				
Options				
Collet (CH16OH Group): φ3.0–φ10.0 mm p. 8-7				
Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256)				
Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26				

*8M motor cord cannot be used with BMS-4020-MQL-2M.

Torque & power curve



BMS-4040-MQL / BMS-4040-MQL-2M

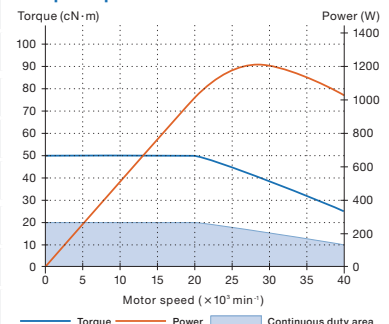


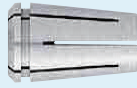
Code No.	7714	Model	BMS-4040-MQL
Code No.	7715	Model	BMS-4040-MQL-2M

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ40 mm	40,000 min⁻¹	Within 1 μm	CH16OH Group (φ3.0–φ10.0 mm)	1,200 w
Cord length		Min. bending cord radius	Max. torque	Net weight
BMS-4040-MQL: 0.3 m BMS-4040-MQL-2M: 2.0 m		70 mm	0.5 N·m	BMS-4040-MQL: 2.3 kg BMS-4040-MQL-2M: 2.8 kg
Standard equipment and accessories				
Collet nut (CHN-16) / Insert / Wrench (17 × 22): 2 pcs. *Collet is sold separately.				
Specifications				
Coolant pressure: 0.2–3.0 MPa / Oil mist pressure: 0.2–1.0 MPa				
Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm				
Signal cable: connector diameter φ16 mm				
Options				
Collet (CH16OH Group): φ3.0–φ10.0 mm p. 8-7				
Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255), 8 m (9256)				
Signal cable: 2 m (9257), 4 m (9258), 6 m (9259), 8 m (9260) p. 1-26				

*8M motor cord cannot be used with BMS-4040-MQL-2M.

Torque & power curve



Spindle
Guide

CHK-OH



CTM-4020

E4000 SERIES

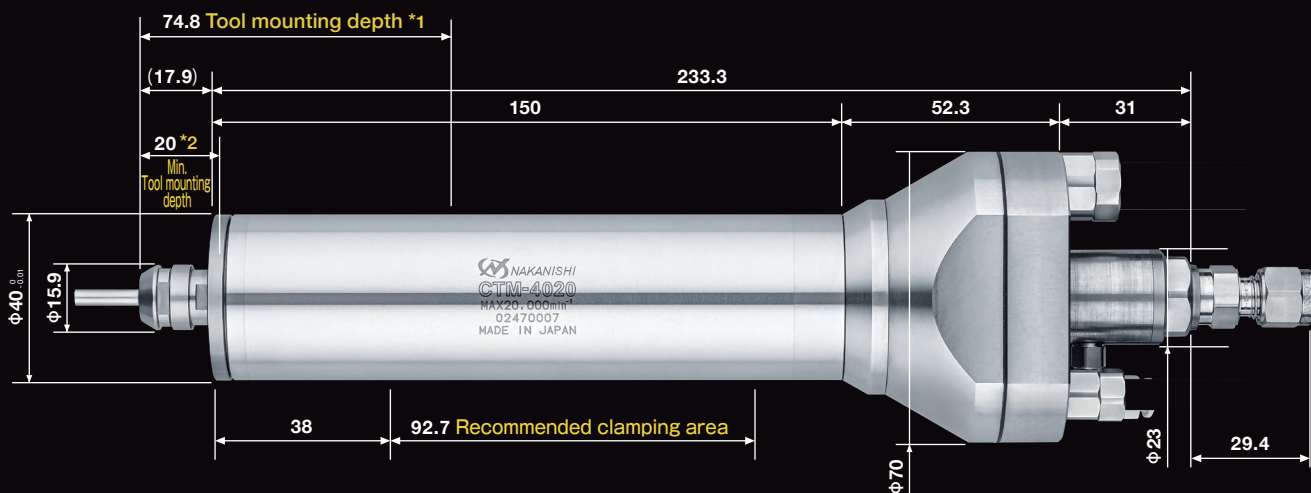
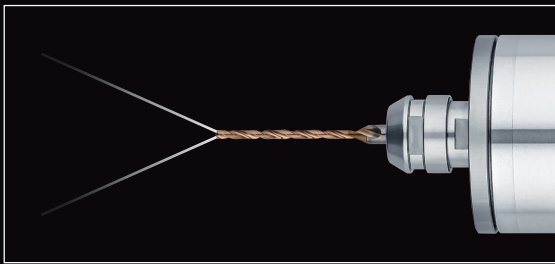
Motor spindle (One-piece type: $\phi 3.0$ – $\phi 6.35$ mm)

CTM-4020

Coolant through spindle

O.D. $\phi 40$ mm

- Pressurized coolant is introduced through the back of the spindle and through the cutting tool at a speed of up to 20,000 RPM.
- Supports high-pressure coolant of up to 30 MPa.
- Coolant through improves chip clearance, accuracy, productivity and extends tool-life.



*1: When the shank is between $\phi 4$ mm to $\phi 6.35$ mm (through-hole for sizes less than $\phi 4$ mm)

*2: The tool needs to be inserted more than 20 mm, or the coolant will leak



"High pressure coolant device" or "oil mist supply device" must be arranged by the customer.



Power cable 2M/4M/6M
Signal cable 2M/4M/6M

EMCD-4000 / EMCD-4000S



E4000 CONTROLLER



AL-C1204

Order by Code No.

Specifications

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

CTM-4020

Code No.

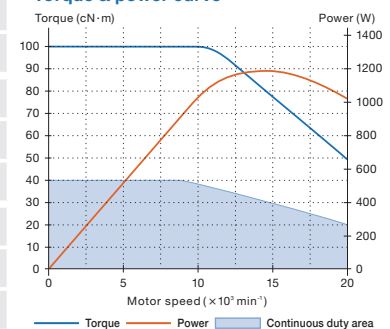
7918

Model

CTM-4020

O.D.	Motor speed	Spindle accuracy	Collet	Max. power
φ40 mm	20,000 min ⁻¹	Within 1 μm	CHK-OH Group (φ3.0–φ6.35 mm)	1,200 w
Cord length	Min. bending cord radius	Max. torque	Net weight	
2.0 m	70 mm	1.0 N·m	2.6 kg	
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. *Collet is sold separately.			
Specifications	Coolant pressure: 0.5–30.0 MPa Power cable with Air hose: connector diameter φ30 mm / air hose φ6 mm Signal cable: connector diameter φ16 mm			
Options	Collet (CHK-OH Group): φ3.0–φ6.35 mm p. 8-5 Power cable with Air hose: 2 m (9253), 4 m (9254), 6 m (9255) Signal cable: 2 m (9257), 4 m (9258), 6 m (9259) p. 1-26			

Torque & power curve



E4000

E3000

E2000

I-Speed3

Air-Speed

HES

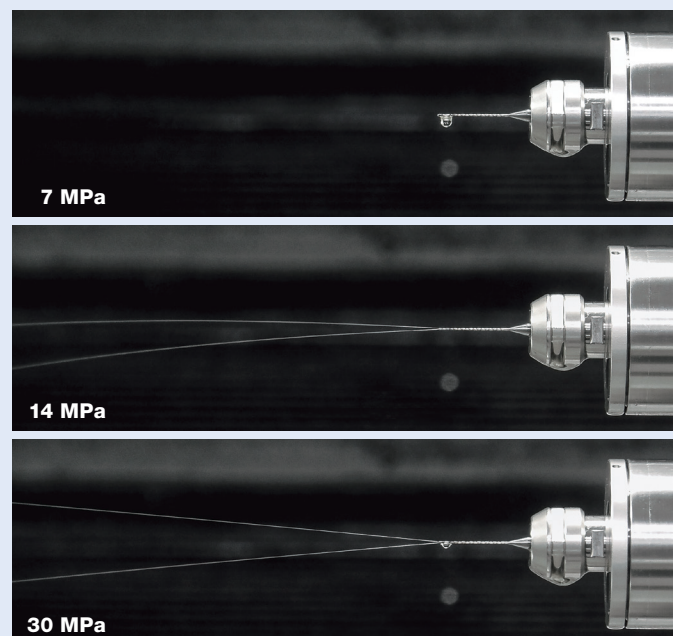
TURBINES

ACCESSORIES

Comparison of coolant discharge

- High-pressure coolant of up to 30 MPa can be applied, and even small tools with a diameter of φ0.5 mm can be sufficiently cooled.
- This improves chip removal, improves machining accuracy, and reduces processing time.

[Conditions]
Tool: φ0.5 mm
Coolant: Oil-based coolant with viscosity VG7

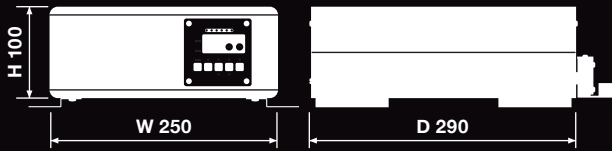


E4000 Controller

E4000 CONTROLLER

Code No. **8472**

Controller



External control function

- **External Input**
Rotating ON/OFF, Forward/reverse rotation, Motor speed control, 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.

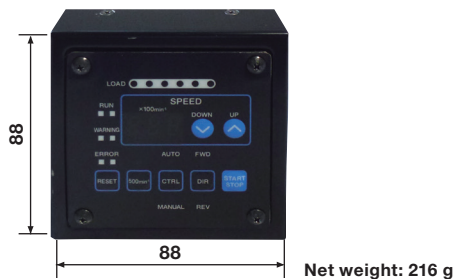


Max. power	Input voltage	Motor speed	Power consumption	Air consumption	Net weight
1,200 w	Ac200-240 v Without plug Multiple output power	1,000-40,000 min ⁻¹	Ac3.2 A	100 NL/min (0.2-0.35 MPa)	6.7 kg
Standard equipment and accessories	Power cord: 4 m / Air hose with filter (K-251: 2058): 2 m / Motor connector cap (included) Connector cover (included) / Bracket: 4 pcs. / Rubber pad: 4 pcs.				

Accessories

E4000-PB

Box for control panel



Code No.	8473	Model	E4000-PB
Standard accessories	Case / Blind plate / Screw (M3): 6 pcs. Screw (M4): 2 pcs.		

*Control panel is sold separately.

E4000-PEX4


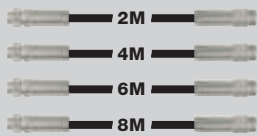
Control panel extension cord (4 m)



Code No.	8474	Model	E4000-PEX4
Standard accessories	Assembled product (cord length: 4 m) Mounting screw: 4 pcs.		

Motor cord

Order by Code No.

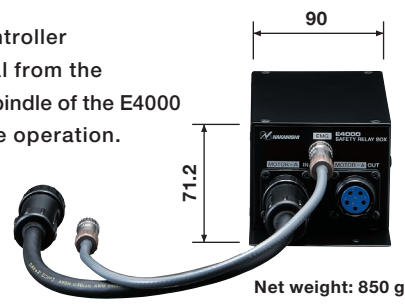
Motor cord	Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
Power cable with Air hose  Connector diameter: $\phi 30$ mm	9253	EMCD-4000-2M	2 m	Air hose	BMS-5010-BMS-5010RA BMS-4020-BMS-4040-BMS-4020RA BMS-4040RA-BMS-4020 2M BMS-4040 2M-EM-4020-EM-4040 EM-4020A-EM-4040A CTM-4020 BMS-4020-MQL-BMS-4020-MQL-2M BMS-4040-MQL-BMS-4040-MQL-2M BMS-4020-MQL-CHK-BMS-4020-MQL-CHK-2M BMS-4040-MQL-CHK-BMS-4040-MQL-CHK-2M BMS-4040-RGD-03M-BMS-4040-RGD-2M BMS-4040RA-RGD-03M-BMS-4040RA-RGD-2M
	9254	EMCD-4000-4M	4 m		
	9255	EMCD-4000-6M	6 m		
	9256	EMCD-4000-8M	8 m		
Signal cable  Connector diameter: $\phi 16$ mm	9257	EMCD-4000S-2M	2 m	-	BMS-5010-BMS-5010RA BMS-4020-BMS-4040-BMS-4020RA BMS-4040RA-BMS-4020 2M BMS-4040 2M-EM-4020-EM-4040 EM-4020A-EM-4040A CTM-4020 BMS-4020-MQL-BMS-4020-MQL-2M BMS-4040-MQL-BMS-4040-MQL-2M BMS-4020-MQL-CHK-BMS-4020-MQL-CHK-2M BMS-4040-MQL-CHK-BMS-4040-MQL-CHK-2M BMS-4040-RGD-03M-BMS-4040-RGD-2M BMS-4040RA-RGD-03M-BMS-4040RA-RGD-2M
	9258	EMCD-4000S-4M	4 m		
	9259	EMCD-4000S-6M	6 m		
	9260	EMCD-4000S-8M	8 m		

*Power cable and Signal cable should be used as set.
 *8M motor cord cannot be used with angle cord type/2M type motor spindles and CTM-4020 (except BMS-5010RA).
 *For BMS-5010/BMS-5010RA, the maximum length of motor cord is 16 m.
 *The minimum cord bending radius for the above motor cords is 70 mm.

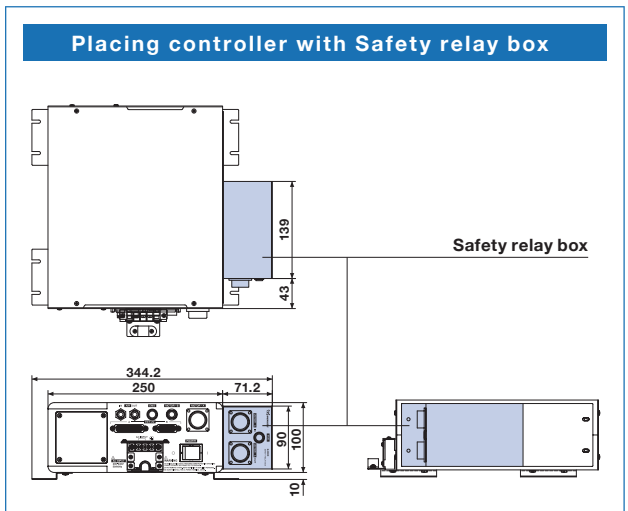
E4000-SRB

Safety relay box

- Mounts directly on E4000 Controller
- Allows Emergency Stop Signal from the CNC to stop the E4000 Motor spindle of the E4000 Controller to stop the machine operation.



Code No.	8475	Model	E4000-SRB
Standard accessories	Power cord: 400 mm Emergency stop cord: 400 mm		



E4000
E3000
E2000
1Speed3
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

1 Speed 3

Air-Speed

HES

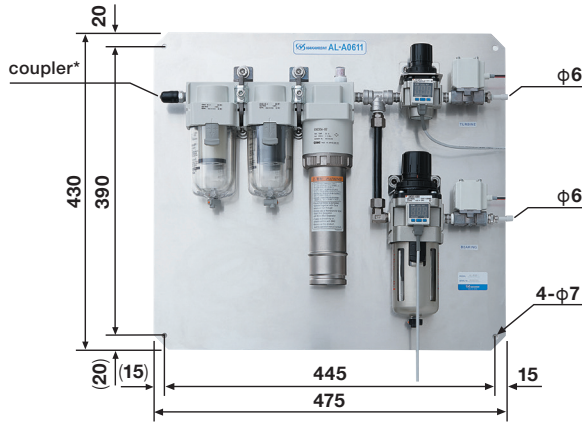
TURBINES

ACCESSORIES

Air line kit

AL-A0611

Filtration: 0.01 µm



Code No.	1548	Model	AL-A0611
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■ Air piping

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

Outlet: φ6.0 mm × 2 parts

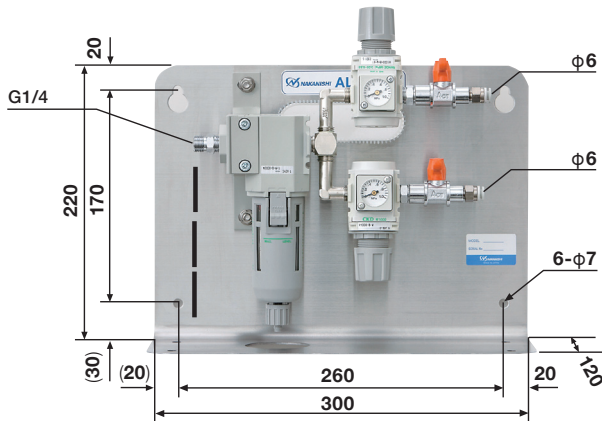
■ Net weight: 8.2 kg

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 Xspeed 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
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■ Air piping

Inlet: G1/4 male thread for connection hose

Outlet: φ6.0 mm × 2 parts

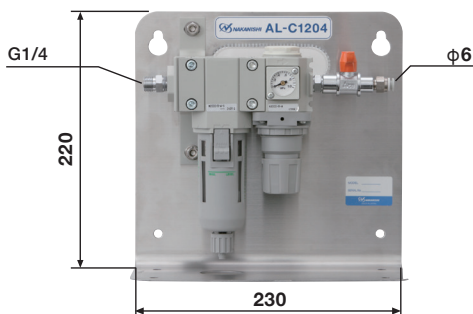
■ Net weight: 2.4 kg

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
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■ Air piping

Inlet: G1/4 male thread for connection hose

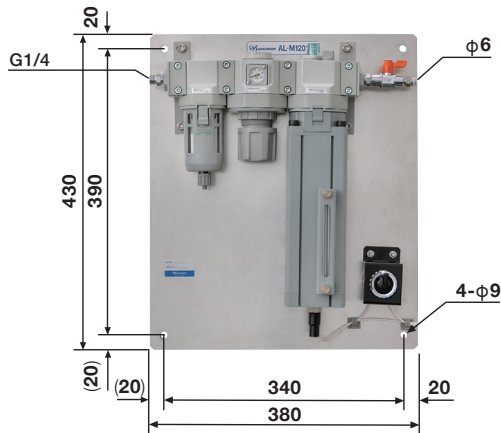
Outlet: φ6.0 mm

■ 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
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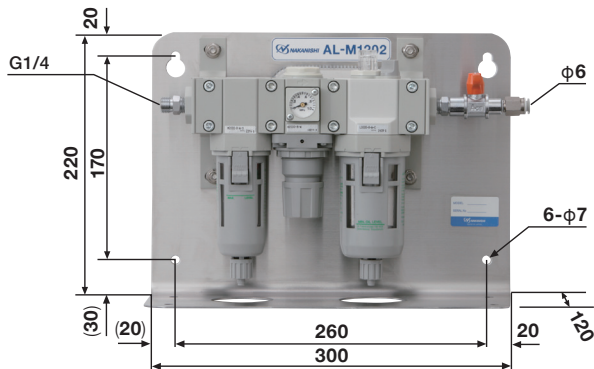
- **Air piping**
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm
- **Net weight: 5.2 kg**

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



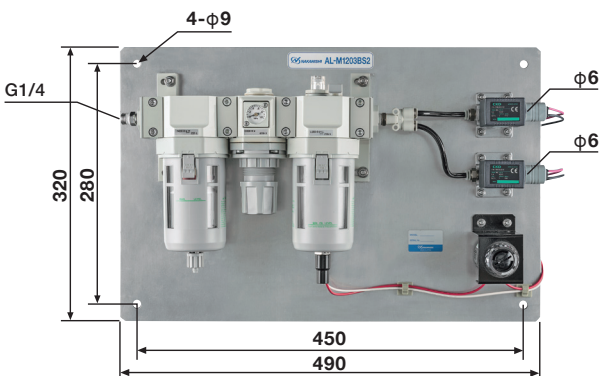
Code No.	4502	Model	AL-M1202
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- **Air piping**
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm
- **Net weight: 2.8 kg**

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
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- **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

1-Speed3

Air-Speed

HES

TURBINES

ACCESSORIES


Collet

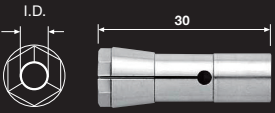
CHA Group		Fit nuts: CHN-A, CHN-AA, CHN-CTA, CHN-3A			
		Code No.	Model	I.D. (mm)	Compatible model
<p>φ1.0 and over</p> <p>φ0.5-φ0.9</p>	91494	CHA-3.0AA	φ3.0AA*	CTS-2630 / 2620A (Type AA only) CTS-3030 EM20-S6000 · EM25-S6000 EMS-3060A · NR-3080S MSS-19 · MSS-20 · MSS-22 PMS-3020A QC3-A (NRR3060-QC / 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
<p>φ1.0 and over</p> <p>φ0.5-φ0.9</p>	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)

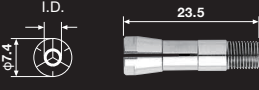
CHK-OH Group		Fit nut: K-265			
		Code No.	Model	I.D. (mm)	Compatible model
<p>φ1.0 and over</p> <p>φ0.5-φ0.9</p>	93630	CHK-OH-3.0	φ3.0	CTM-4020 BMS-4020-MQL-CHK / 2M BMS-4040-MQL-CHK / 2M	
	93631	CHK-OH-3.175	φ3.175		
	93640	CHK-OH-4.0	φ4.0		
	93650	CHK-OH-5.0	φ5.0		
	93660	CHK-OH-6.0	φ6.0		
	93663	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

1Speed3

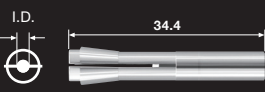
Air-Speed

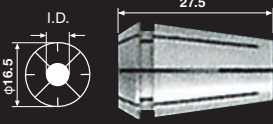
HES

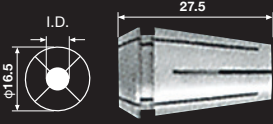
TURBINES

ACCESSORIES

Collet







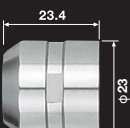
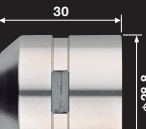
CH8 Group				
	Code No.	Model	I.D. (mm)	Compatible model
	91092	CH8-2.35	φ2.35	RA-100 · RA-151E
	91030	CH8-3.0	φ3.0	
	91093	CH8-3.175	φ3.175	
	910 □□	CH8-□□	φ0.8, φ0.9	
			φ1.0, φ1.5, φ2.0, φ2.5	
φ1.1, φ1.2, φ1.3, φ1.4, φ1.6, φ1.7, φ1.8, φ1.9				
φ2.1, φ2.2, φ2.3, φ2.4, φ2.6, φ2.7, φ2.8, φ2.9				

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
	7799	CHN-CTA-3.175		
	7800	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

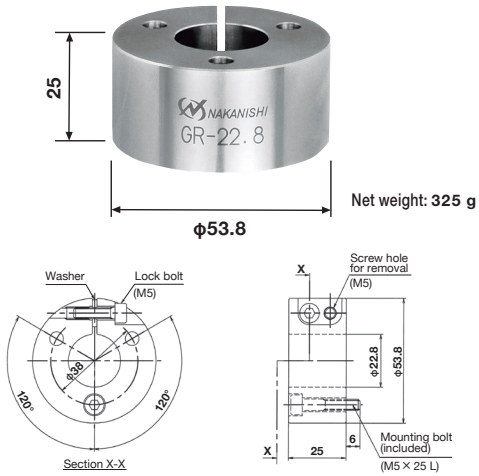
HES

TURBINES

ACCESSORIES

Grip ring

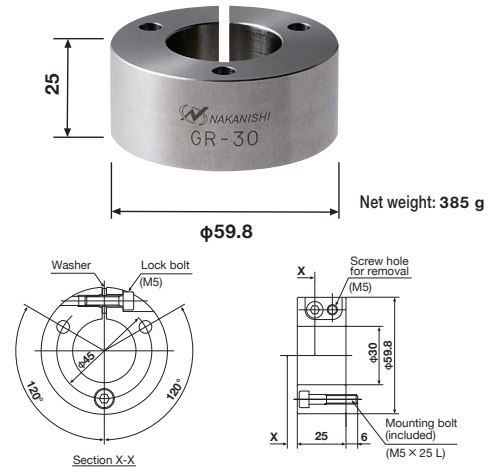
GR-22.8



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

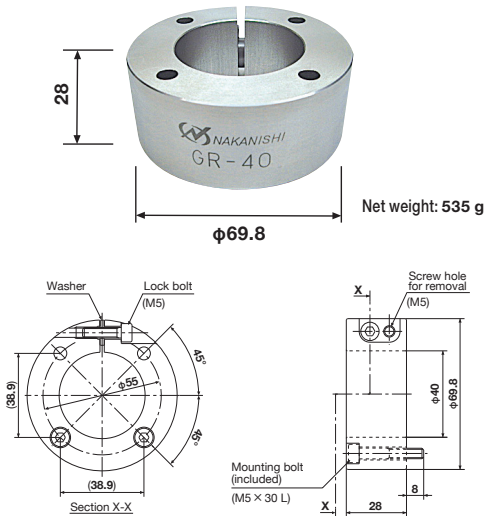
*GR-22.8 cannot be used with NR-311.

GR-30



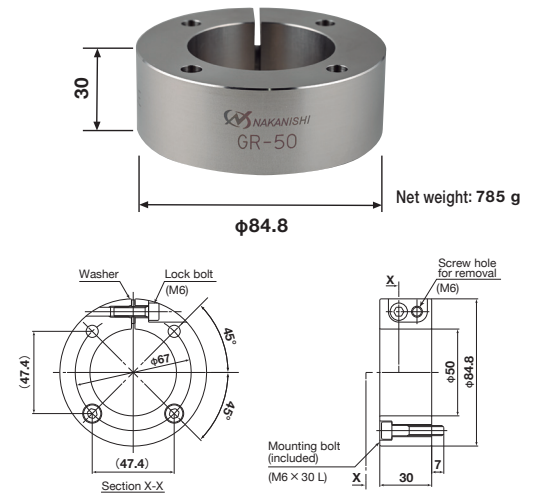
Code No.	1885	Model	GR-30
Standard accessories	Mounting bolt (M5 × 25 L): 3 pcs.		
Compatible model	φ30 mm Spindle		

GR-40



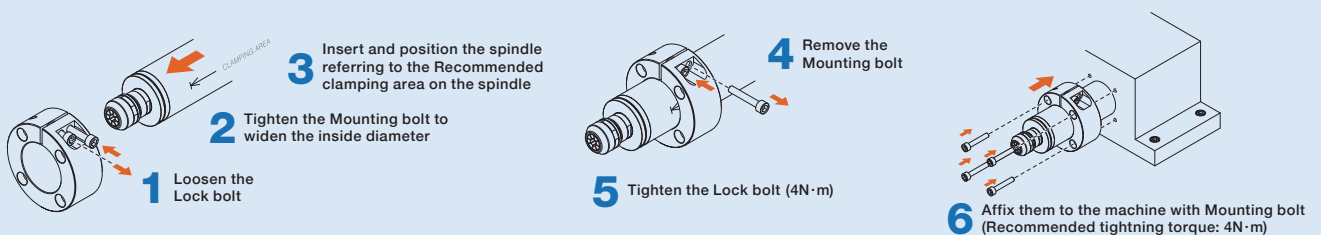
Code No.	1886	Model	GR-40
Standard accessories	Mounting bolt (M5 × 30 L): 4 pcs.		
Compatible model	φ40 mm Spindle		

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.

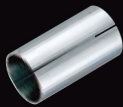
Spacer

Order by Code No.

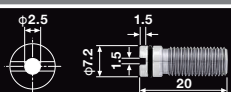
Spacer	Code No.	Model	Description / Description (I.D. × T)	Compatible model
	1882	SP-22 × 10 L	Spacer ($\phi 22 \times 10$ mm)	BM-322FL · BM-322FR

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

1Speed3

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	NR3060-AQC · NRR3060-QC
	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	NR3060-AQC · NRR3060-QC
	9222	QC3-A-R		
	7794	QC3-SS	Collet holder for CHSS	

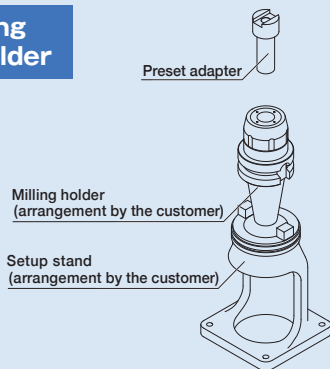
Preset adapter

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

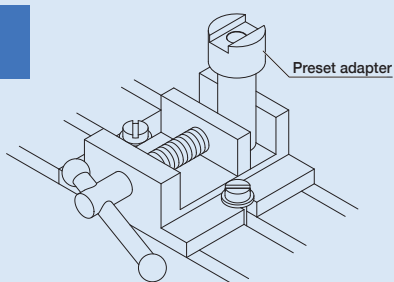
Set-up outside machines

1

In case using
a milling holder

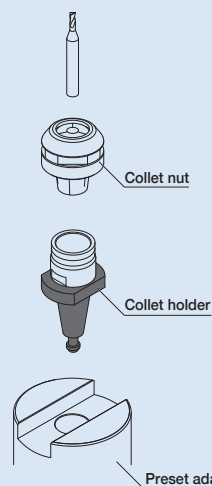


In case using
a vice

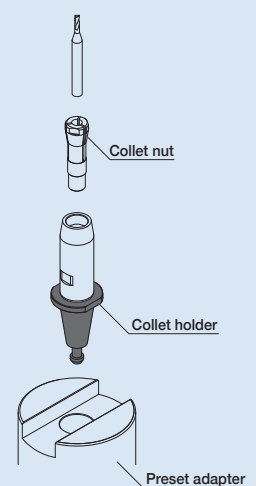


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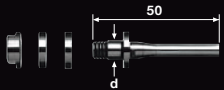
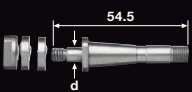
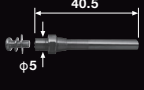

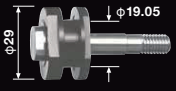
For QC3-K/A
QC5-16/K







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.)	
	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.)	
	2149	KCH-03 (8.0)	φ8.0 (I.D.)	
2148	KCH-03 (5.0)	φ5.0 (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	
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
			Grindstone arbor Run-out accuracy: within 0.02 mm Grindstone I.D. φ5.0 mm	
	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	

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

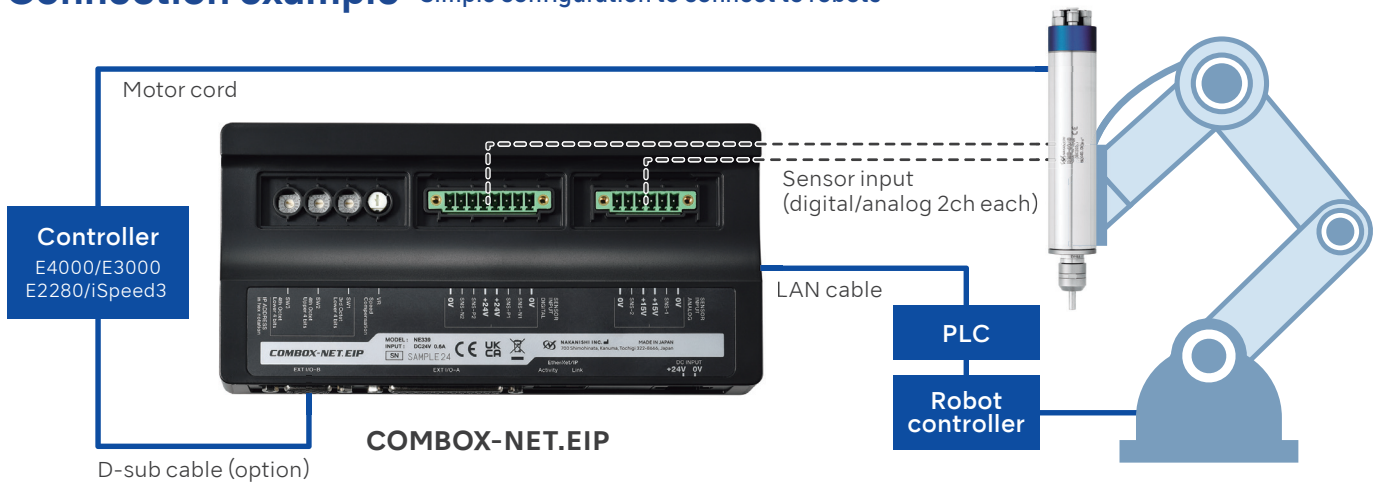
• Reduction of the number of lines in the ladder program in PLCs is possible

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

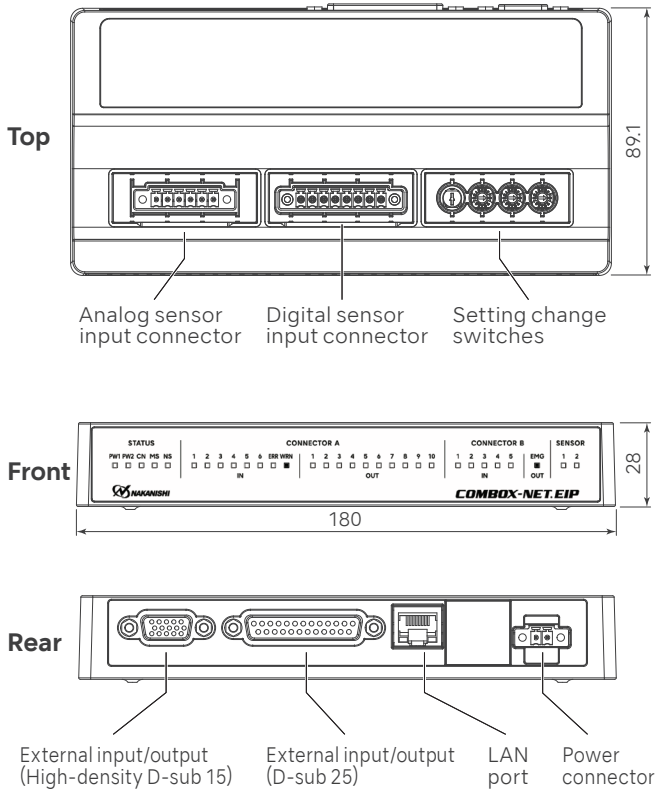
33% reduction in work hours
(compared to in-house measurements)



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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EKA | COMMERCE

Elektronische Einkaufsplattform



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