



2026

E3000



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en.nakanishi-spindle
PR-K364E Ver.2 2026-02-03 XXX.YX

NAKANISHI INC. 2026

*Specifications and design are subject to change without notice.

E3000 SERIES

HIGH-SPEED ROTATION & HIGH PRECISION

Great Variety

The largest range of products

φ30 mm Spindle

- Max. power: 350 W
- Max. motor speed: 80,000 min⁻¹

28 types of spindles are available

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

Speed3

Air-Speed

HES


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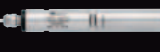
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E4000

E3000

E2000

ISpeed3

Air-Speed

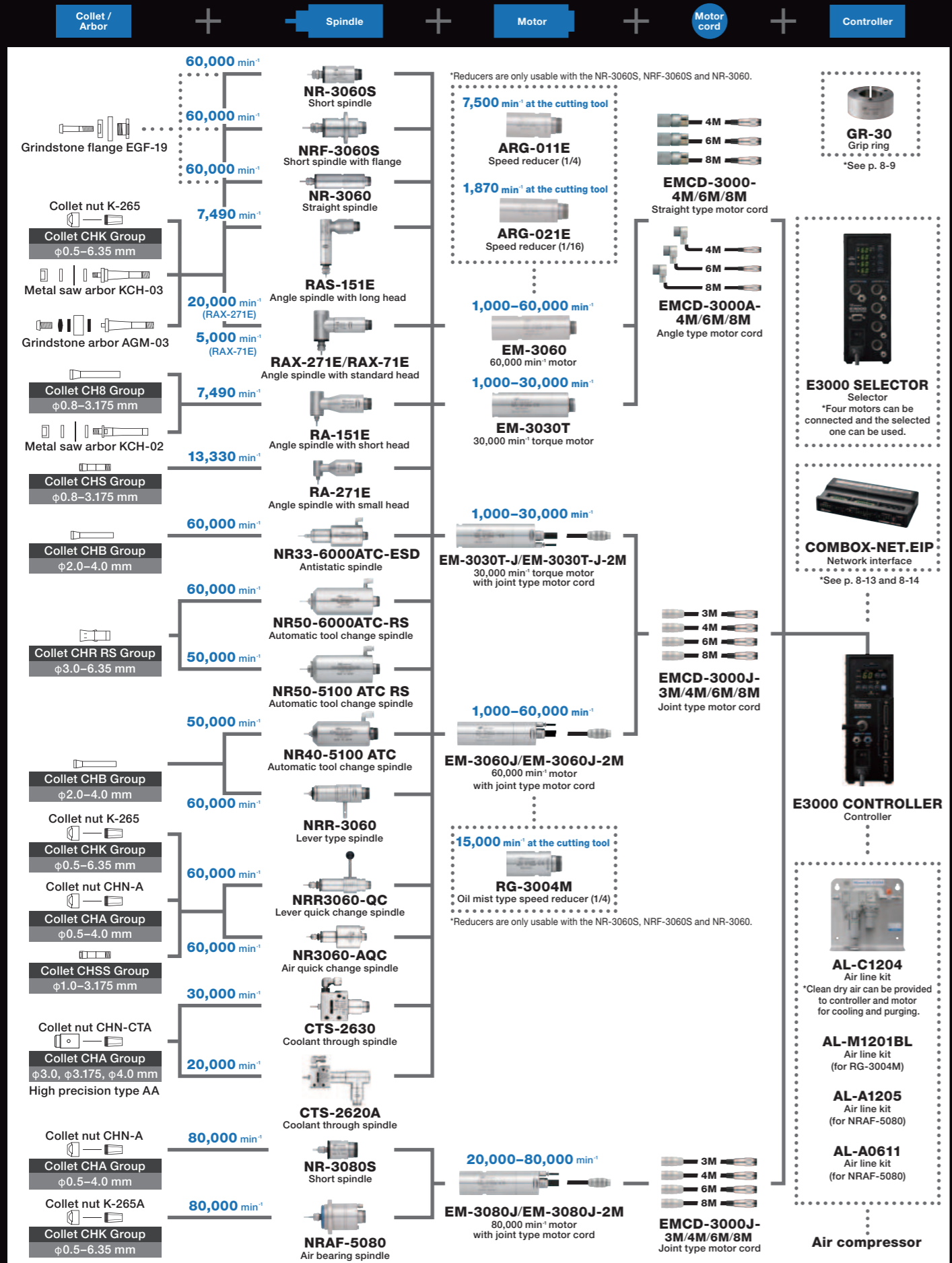
HES

TURBINES

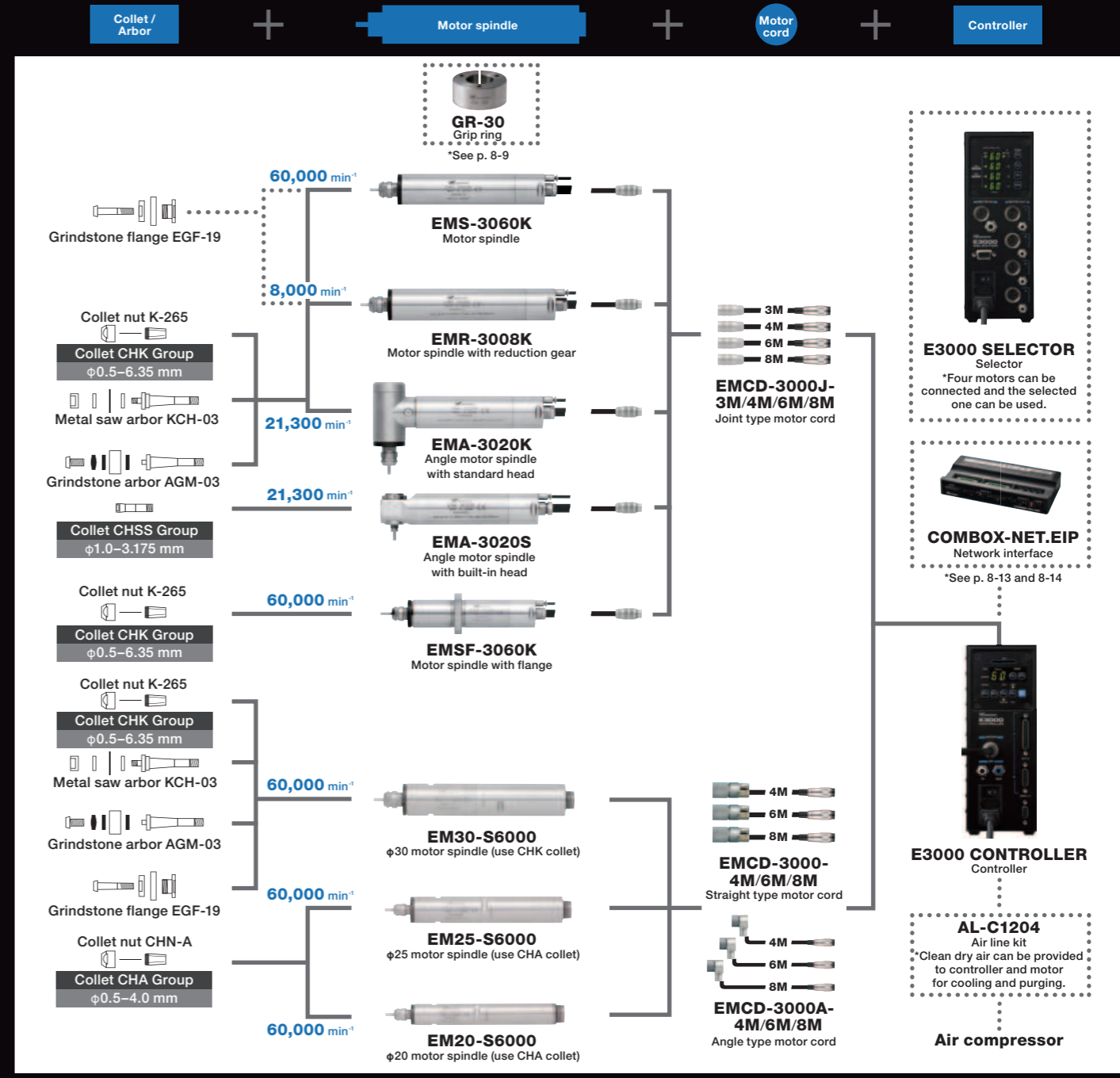
ACCESSORIES

System Chart

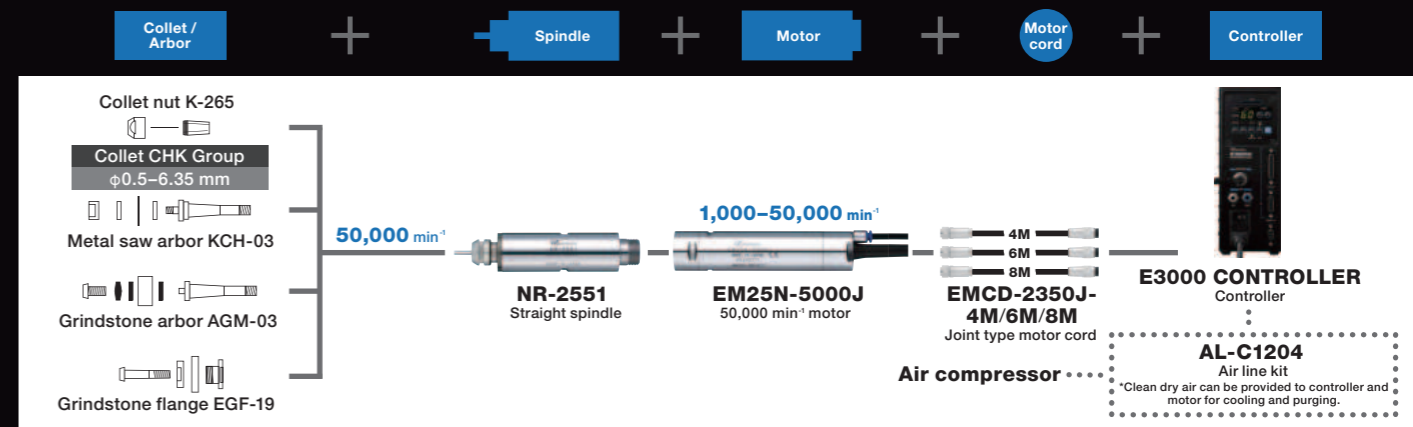
Modular type $\phi 30$ mm



One-piece type $\phi 30, \phi 25, \phi 20$ mm



Modular type $\phi 25$ mm



E4000

E3000

E2000

Speed3

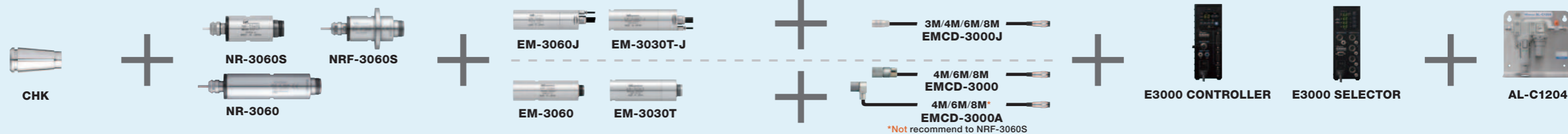
Air-Speed

HES

TURBINES

ACCESSORIES

Spindle Guide



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

NR-3060S

Short spindle

O.D. $\phi 30$ mm

Specifications

CAD drawings

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

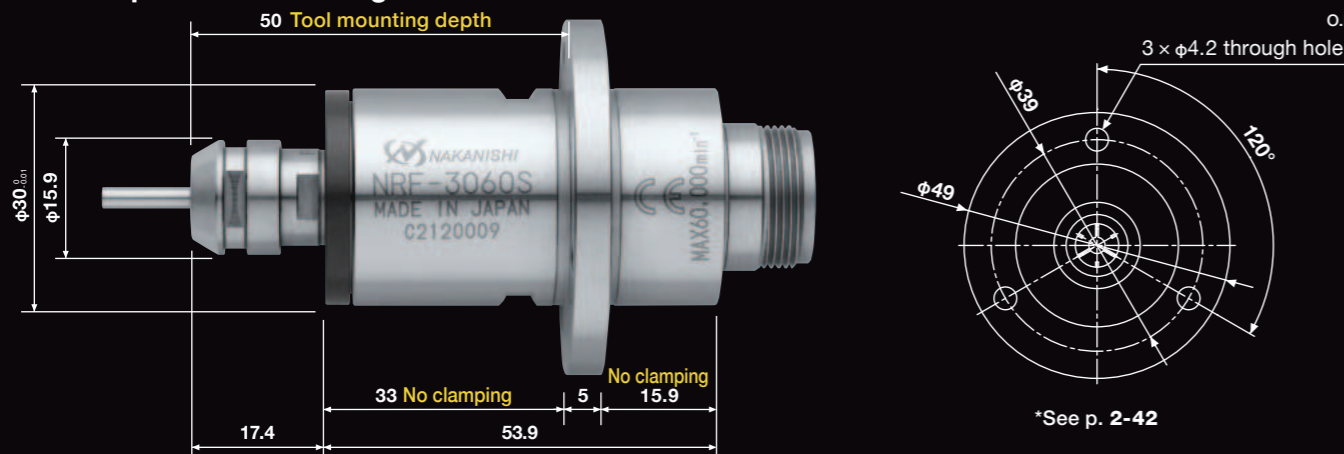
NR-3060S

Code No. **7859** Model **NR-3060S**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
$\phi 30$ mm	60,000 min ⁻¹	Within 1 μ m	CHK Group ($\phi 0.5$ – $\phi 6.35$ mm)	260 g
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. · (22 × 27): 1 pc. *Collet is sold separately.			
Options	Collet (CHK Group): $\phi 0.5$ – $\phi 6.35$ mm p. 8-5 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) / Grindstone flange (EGF-19) p. 8-12			

NRF-3060S

Short spindle with flange

O.D. $\phi 30$ mm

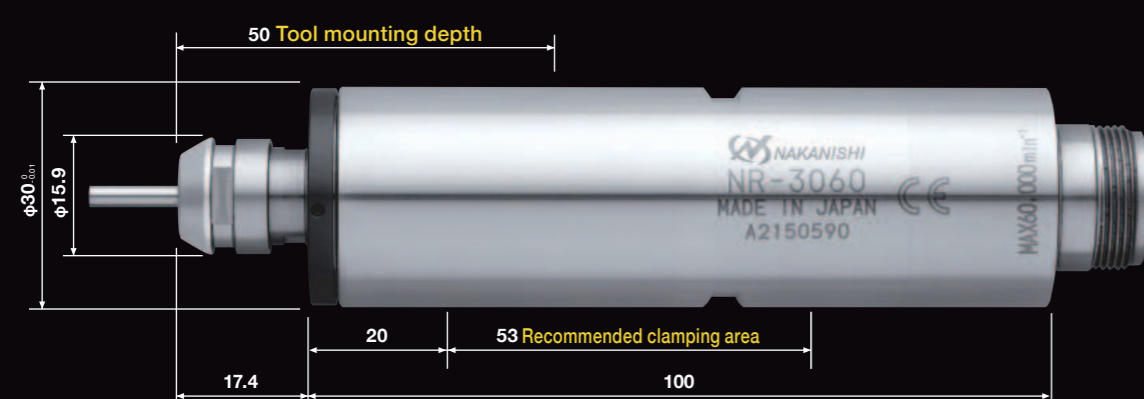
NRF-3060S

Code No. **7795** Model **NRF-3060S**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
$\phi 30$ mm	60,000 min ⁻¹	Within 1 μ m	CHK Group ($\phi 0.5$ – $\phi 6.35$ mm)	285 g
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. · (22 × 27): 1 pc. Hexagon socket head screw (M4 × 12): 3 pcs. *Collet is sold separately.			
Options	Collet (CHK Group): $\phi 0.5$ – $\phi 6.35$ mm p. 8-5 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) / Grindstone flange (EGF-19) p. 8-12			

NR-3060

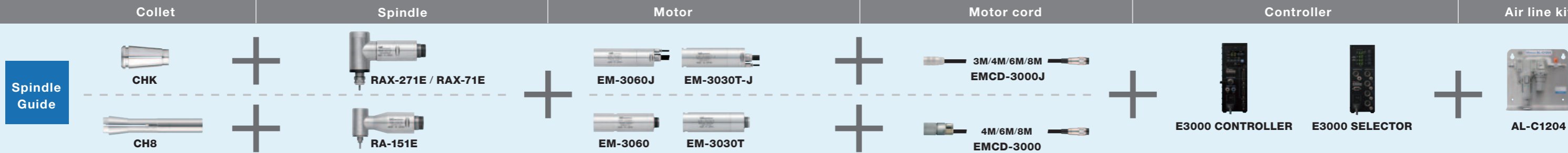
Straight spindle

O.D. $\phi 30$ mm

NR-3060

Code No. **7875** Model **NR-3060**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
$\phi 30$ mm	60,000 min ⁻¹	Within 1 μ m	CHK Group ($\phi 0.5$ – $\phi 6.35$ mm)	480 g
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. · (22 × 27): 1 pc. *Collet is sold separately.			
Options	Collet (CHK Group): $\phi 0.5$ – $\phi 6.35$ mm p. 8-5 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) / Grindstone flange (EGF-19) p. 8-12			



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

Specifications

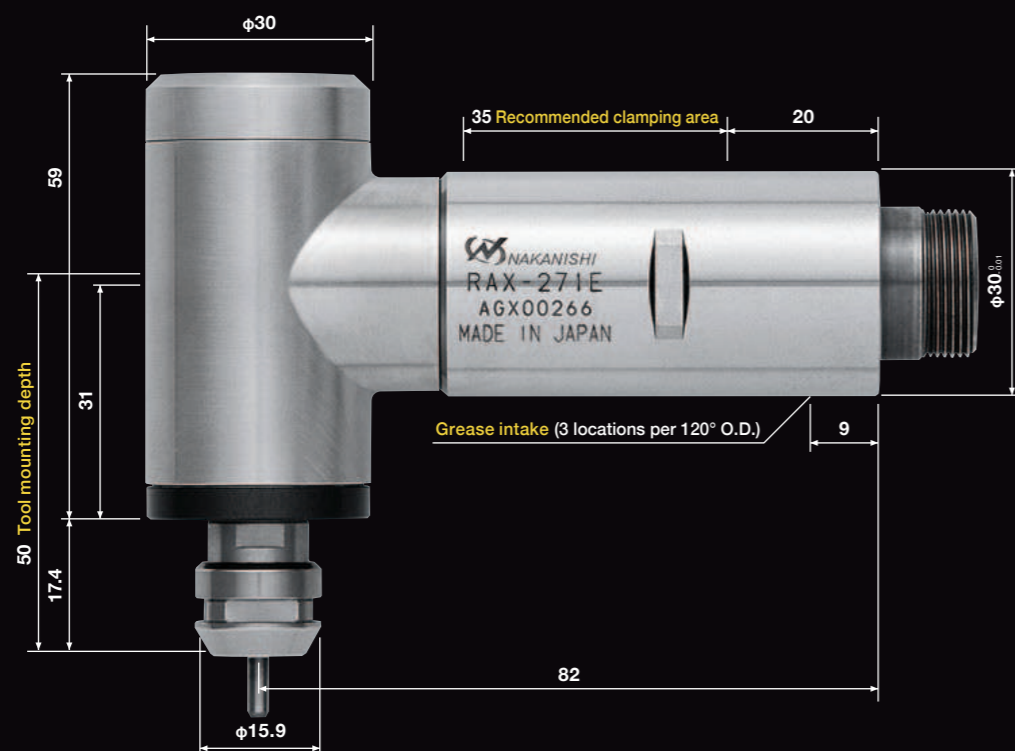
CAD drawings CAD drawings (DXF/STEP) are available on our website

RAX-271E / RAX-71E

Angle spindle with standard head



O.D. ϕ 30 mm



RAX-271E / RAX-71E

Code No.	7856	Model	RAX-271E
Code No.	7857	Model	RAX-71E



[Model]	O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed
RAX-271E	ϕ 30 mm	20,000 min ⁻¹	$\frac{1}{1.5}$	30,000 min ⁻¹ (Allowable rotational speed)
Spindle accuracy	Collet	Net weight		
Within 2 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	580 g		
[Model]	O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed
RAX-71E	ϕ 30 mm	5,000 min ⁻¹	$\frac{1}{6}$	30,000 min ⁻¹ (Allowable rotational speed)
Spindle accuracy	Collet	Net weight		
Within 2 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	580 g		
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 \times 14): 2 pcs. · (22 \times 27): 1 pc.			
	Grease for Speed reducer (10 mL) / Grease nipple: 1 pc. *Collet is sold separately.			
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5			
	Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) p. 8-12			

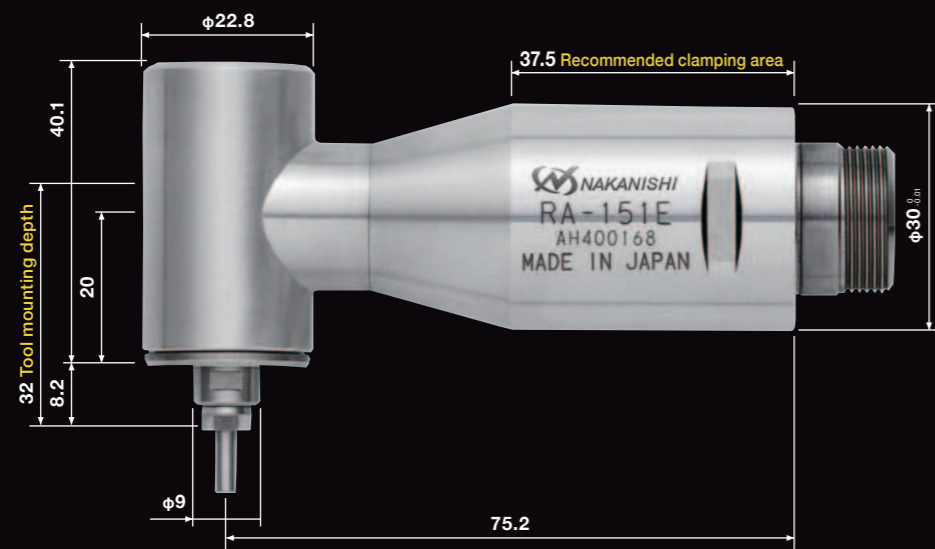
! Inject grease every 70–100 hours to extend the life of the Speed reducer.
Grease injection prevents the friction of the internal gears and the degradation of the existing grease.

RA-151E

Angle spindle with short head



O.D. ϕ 30 mm



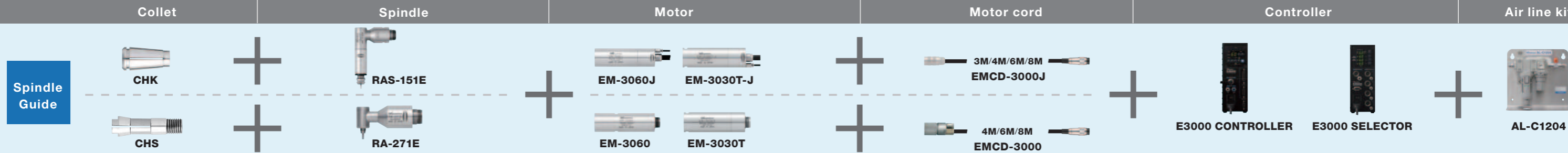
RA-151E

Code No.	1505	Model	RA-151E
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O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	Collet	Net weight
ϕ 30 mm	7,490 min ⁻¹	$\frac{1}{2.67}$	20,000 min ⁻¹ (Allowable rotational speed)	CH8 Group (ϕ 0.8– ϕ 3.175 mm)	385 g
Standard equipment and accessories	Collet: ϕ 3.0 mm (CH8-3.0) / Wrench (7 \times 5.5) · (8 \times 5) · (22 \times 27): 1 pc. each				
Options	Collet (CH8 Group): ϕ 0.8– ϕ 3.175 mm p. 8-7				
	Metal saw arbor (KCH-02): 3 sizes p. 8-12				

E4000
E3000
E2000
Speed3
Air-Speed
HES
TURBINES
ACCESSORIES



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

Specifications

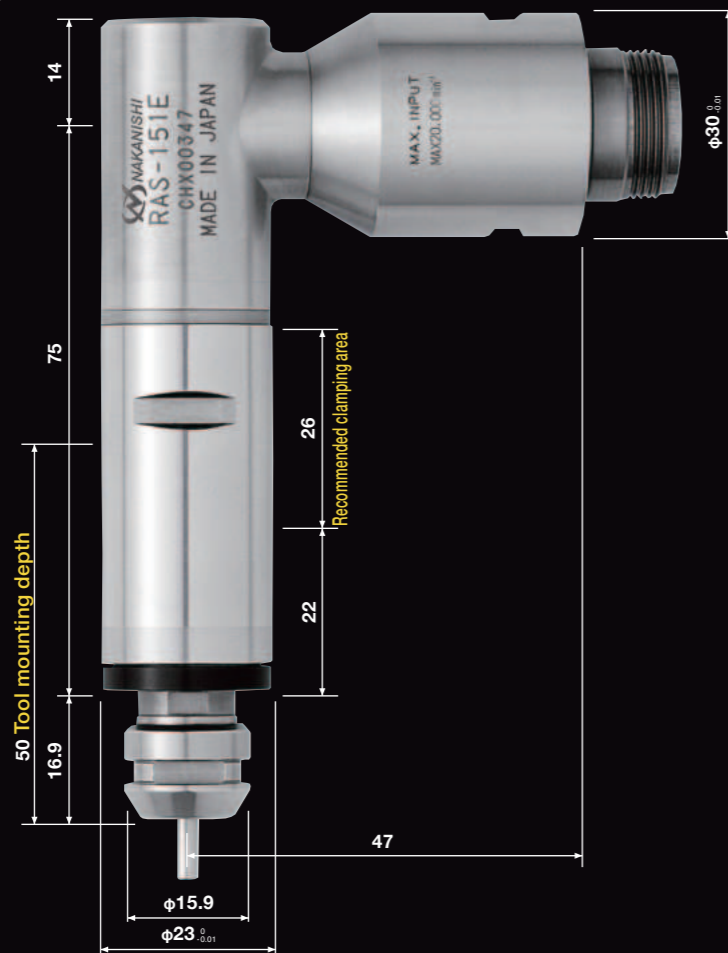
CAD drawings CAD drawings (DXF/STEP) are available on our website

RAS-151E

Angle spindle with long head



O.D. φ23 mm



RAS-151E

Code No. **7840** Model **RAS-151E**



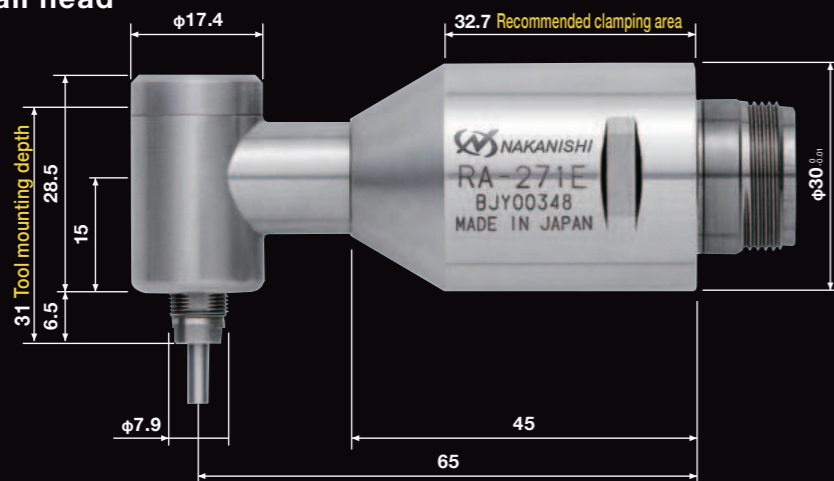
O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed
φ23 mm Recommended clamping area	7,490 min ⁻¹	$\frac{1}{2.67}$	20,000 min ⁻¹ (Allowable rotational speed)
Spindle accuracy	Collet	Net weight	
Within 2 μm	CHK Group (φ0.5–φ6.35 mm)	413 g	
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. · (22 × 27): 1 pc. <i>*Collet is sold separately.</i>		
Options	Collet (CHK Group): φ0.5–φ6.35 mm p. 8-5 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) p. 8-12		

RA-271E

Angle spindle with small head



O.D. φ30 mm



RA-271E

Code No. **1506** Model **RA-271E**



O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	Collet	Net weight
φ30 mm	13,330 min ⁻¹	$\frac{1}{1.5}$	20,000 min ⁻¹ (Allowable rotational speed)	CHS Group (φ0.8–φ3.175 mm)	240 g
Standard equipment and accessories	Collet: φ3.0 mm (CHS-3.0) / Wrench (7 × 5.1) · (8 × 5) · (22 × 27): 1 pc. each				
Options	Collet (CHS Group): φ0.8–φ3.175 mm p. 8-6				

E4000

E3000

E2000

Speed3

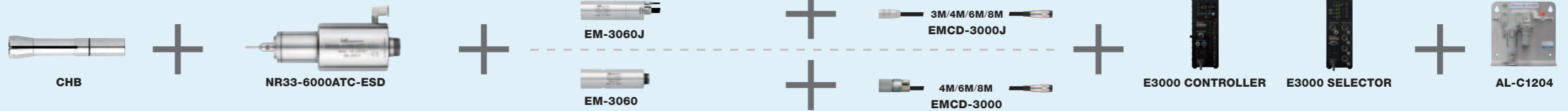
Air-Speed

HES

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Spindle Guide



E3000 SERIES

Shown In Actual Size

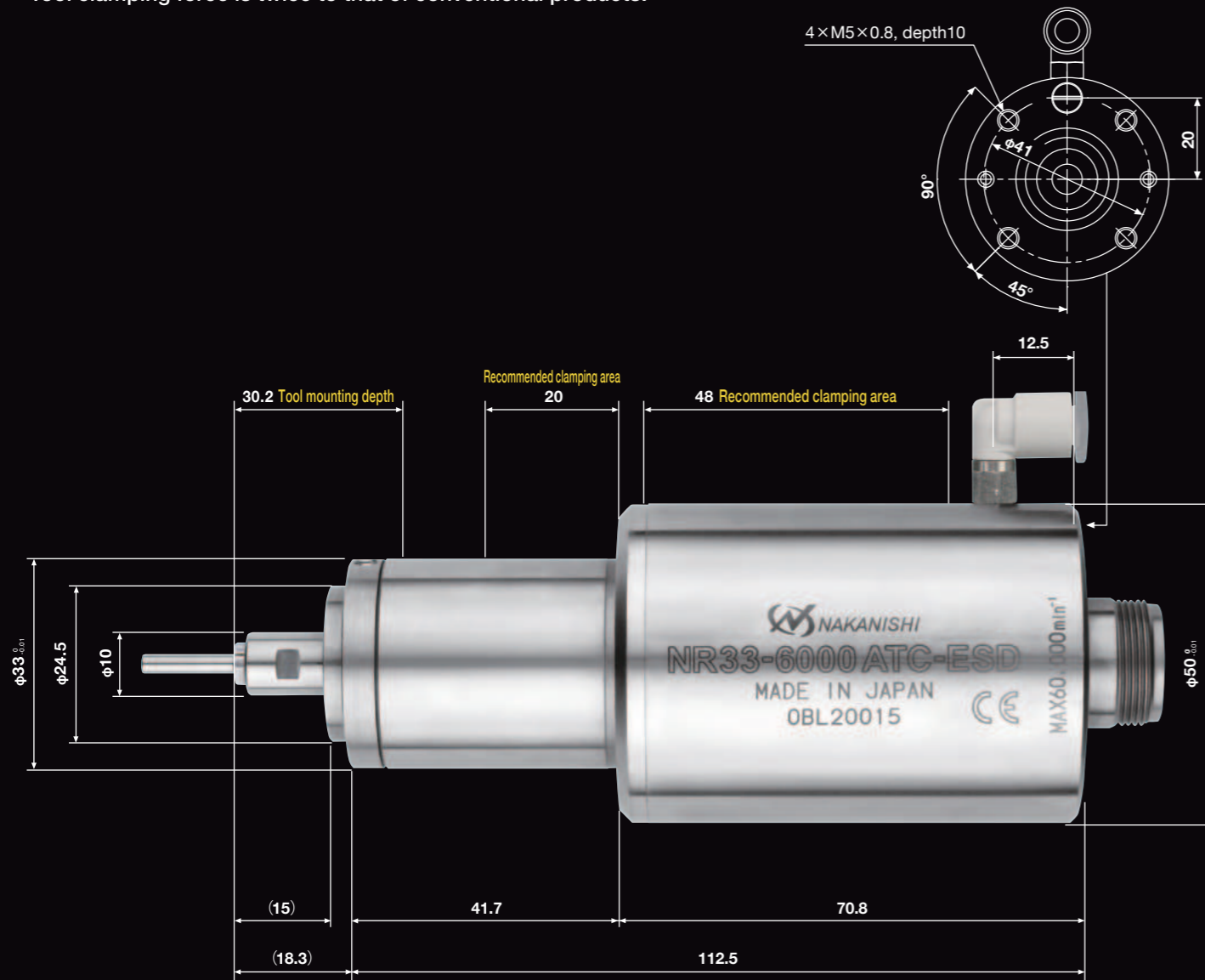
Spindle (Modular type)

NR33-6000ATC-ESD

Antistatic spindle



- Quick and automatic tool change by supplying air to open the collet.
- Prevents damage to electronic components on the PCB by discharging the static electricity generated during machining.
- The long nose design will help avoid contact between the spindle and parts installed on the PCB.
- Tool clamping force is twice to that of conventional products.



Specifications

CAD drawings

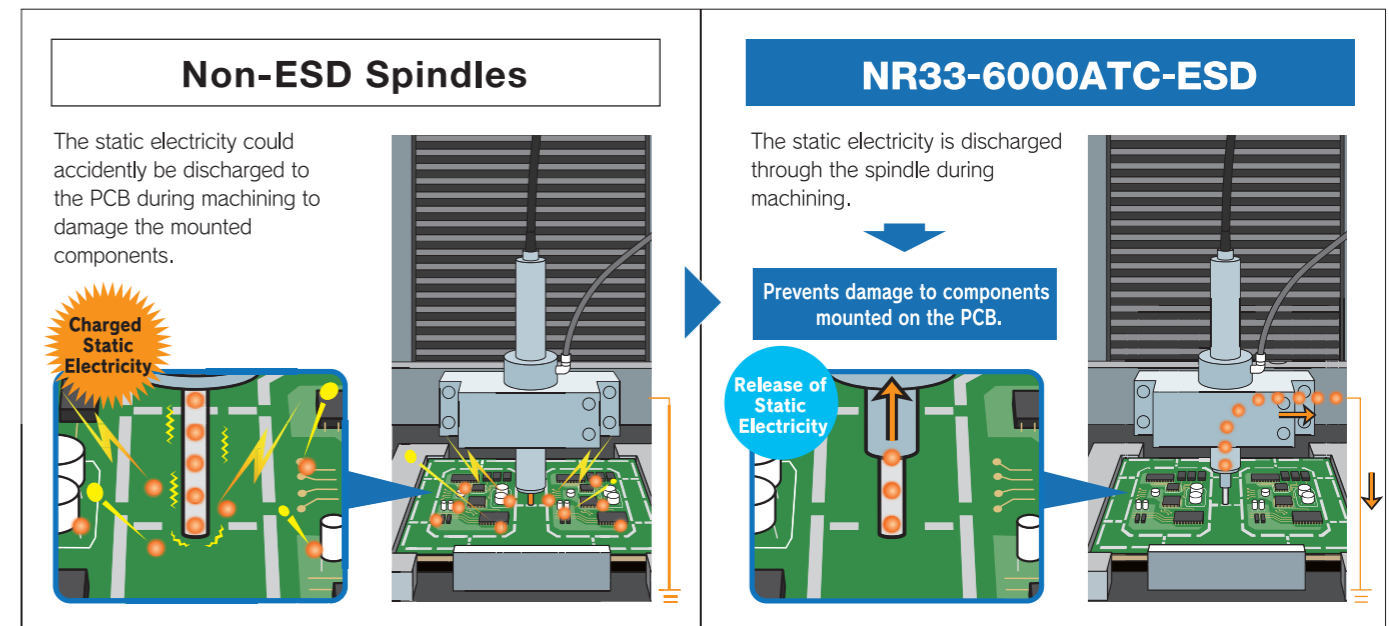
CAD drawings (DXF/STEP) are available on our website

Order by Code No.

NR33-6000ATC-ESD

Code No. **7788** Model **NR33-6000ATC-ESD**

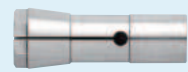
What is an ESD Spindle?



* Image is for illustrative purpose only.

O.D.	Allowable motor speed	Air for collet opening	Spindle accuracy	Collet	Net weight
φ33 mm / φ50 mm	60,000 min ⁻¹	0.55–0.6 MPa	Within 1 μm	CHB Group (φ2.0–φ4.0 mm)	1,170 g
Standard equipment and accessories	Collet: φ3.175 mm (CHB-3.175) / Wrench (6.1 × 8) · (9 × 11): 1 pc. each / Bar wrench (K-236): 1 pc. Air hose with filter (K-251): φ6 mm × 2 m				
Options	Collet (CHB Group): φ2.0–φ4.0 mm p. 8-5				

Spindle Guide



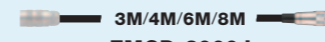
CHR RS



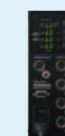
NR50-6000ATC-RS



EM-3060J

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

CAD drawings

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

NR50-6000ATC-RS

Automatic tool change spindle

- Tool clamping force is twice to that of conventional products.
- Dust proof cover on spindle tip minimizes foreign objects to enter the spindle body.
- Rubber-sealed (RS) collet prevents cutting dust from entering the collet slot to prevent tool jamming. Recommended for use with cutting fluids on metal or glass workpieces.

O.D. ϕ 50 mm

NR50-6000ATC-RS

Code No.

7909

Model

NR50-6000ATC-RS



O.D.	Allowable motor speed	Air for collet opening	Spindle accuracy	Collet	Net weight
ϕ 50 mm	60,000 min ⁻¹	0.55–0.6 MPa	Within 1 μ m	CHR RS Group (ϕ 3.0– ϕ 6.35 mm)	1,280 g
Standard equipment and accessories	Collet: ϕ 3.175 mm (CHR-3.175RS) / Wrench (9 × 11) · (12 × 14): 1 pc. each / Bar wrench (K-236): 1 pc. Air hose with filter (K-251): ϕ 6 mm × 2 m				
Options	Collet (CHR RS Group): ϕ 3.0– ϕ 6.35 mm p. 8-6				

NR50-5100 ATC RS

Automatic tool change spindle

- Dust proof cover on spindle tip minimizes foreign objects to enter the spindle body.
- Rubber-sealed (RS) collet prevents cutting dust from entering the collet slot to prevent tool jamming. Recommended for use with cutting fluids on metal or glass workpieces.

O.D. ϕ 50 mm

NR50-5100 ATC RS

Code No.

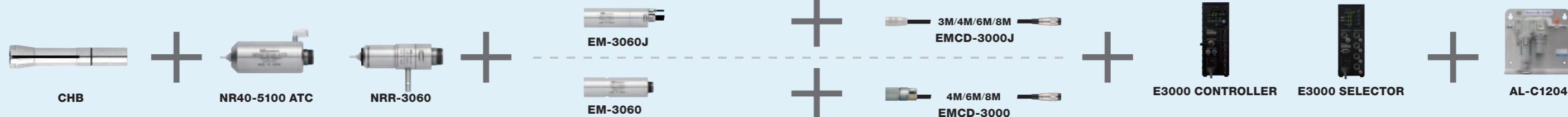
7690

Model

NR50-5100 ATC RS

O.D.	Allowable motor speed	Air for collet opening	Spindle accuracy	Collet	Net weight
ϕ 50 mm	50,000 min ⁻¹	0.55–0.6 MPa	Within 1 μ m	CHR RS Group (ϕ 3.0– ϕ 6.35 mm)	1,370 g
Standard equipment and accessories	Collet: ϕ 3.175 mm (CHR-3.175RS) / Wrench (9 × 11) · (12 × 14): 1 pc. each / Bar wrench (K-236): 1 pc. Air hose with filter (K-251): ϕ 6 mm × 2 m				
Options	Collet (CHR RS Group): ϕ 3.0– ϕ 6.35 mm p. 8-6				

Spindle Guide



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

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

NR40-5100 ATC

Automatic tool change spindle

O.D. $\phi 40$ mm

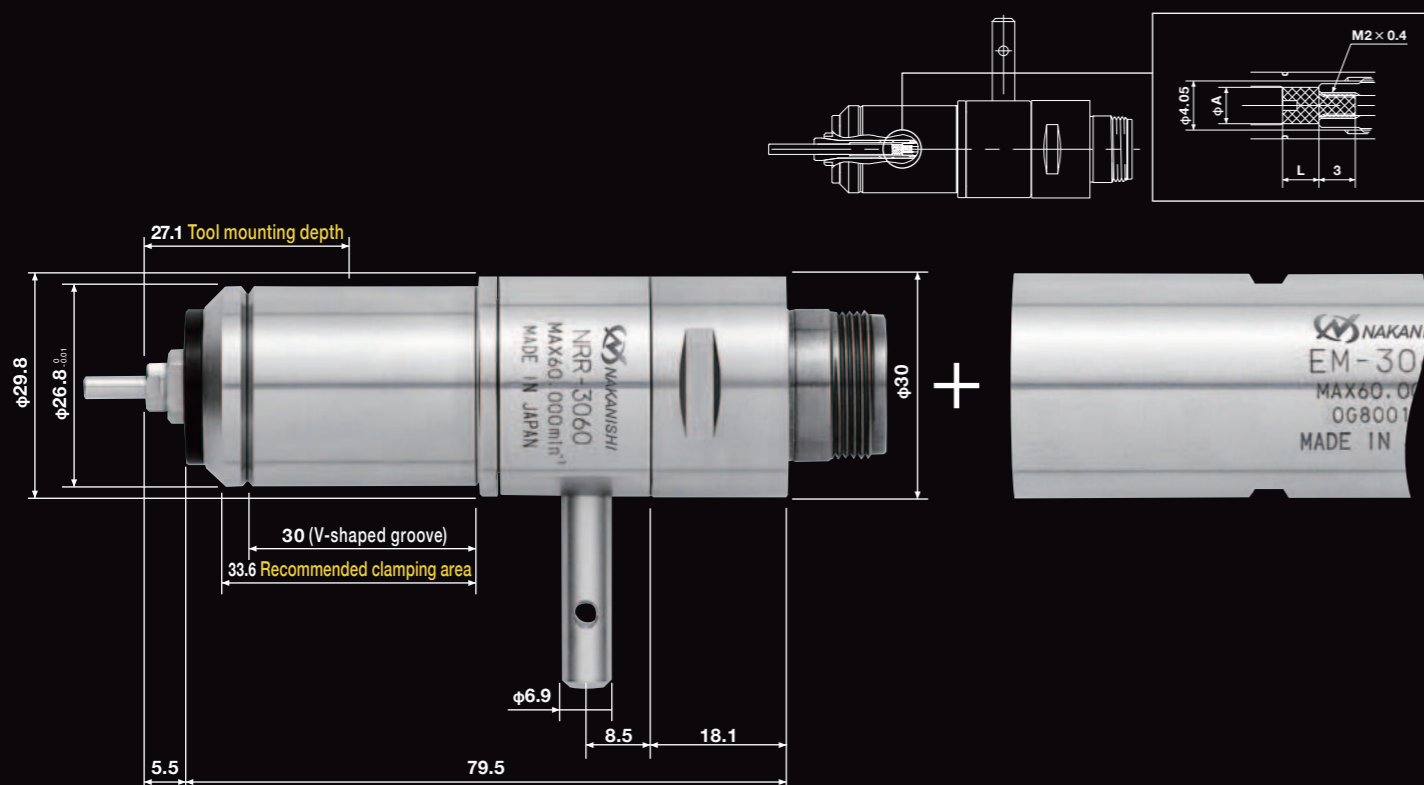
NR40-5100 ATC

Code No. **1582** Model **NR40-5100 ATC**

O.D.	Allowable motor speed	Air for collet opening	Spindle accuracy	Collet	Net weight
$\phi 40$ mm	50,000 min ⁻¹	0.55–0.6 MPa	Within 2 μ m	CHB Group ($\phi 2.0$ – $\phi 4.0$ mm)	740 g
Standard equipment and accessories	Collet: $\phi 3.175$ mm (CHB-3.175) / Wrench (6.1 × 8) · (9 × 11): 1 pc. each / Bar wrench (K-236): 1 pc. Air hose with filter (K-251): $\phi 6$ mm × 2 m				
Options	Collet (CHB Group): $\phi 2.0$ – $\phi 4.0$ mm p. 8-5				

NRR-3060

Lever type spindle

O.D. $\phi 26.8$ mm

NRR-3060

Code No. **1836** Model **NRR-3060**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
$\phi 26.8$ mm Recommended clamping area	60,000 min ⁻¹	Within 1 μ m	CHB Group ($\phi 2.0$ – $\phi 4.0$ mm)	350 g
Standard equipment and accessories	Collet: $\phi 3.175$ mm (CHB-3.175) / Wrench (6.1 × 8): 2 pcs. · (22 × 27): 1 pc.			
Options	Collet (CHB Group): $\phi 2.0$ – $\phi 4.0$ mm p. 8-5			

E4000

E3000

E2000

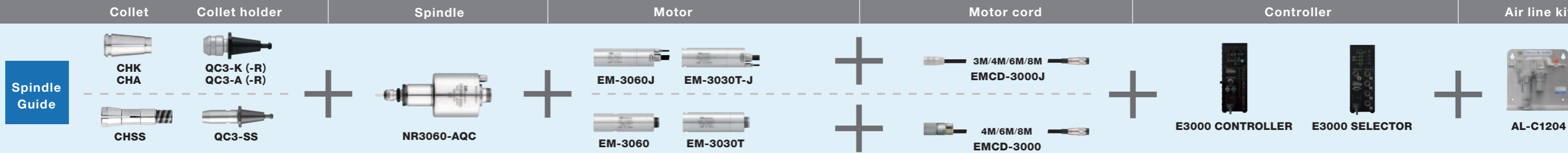
Speed3

Air-Speed

HES

TURBINES

ACCESSORIES



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

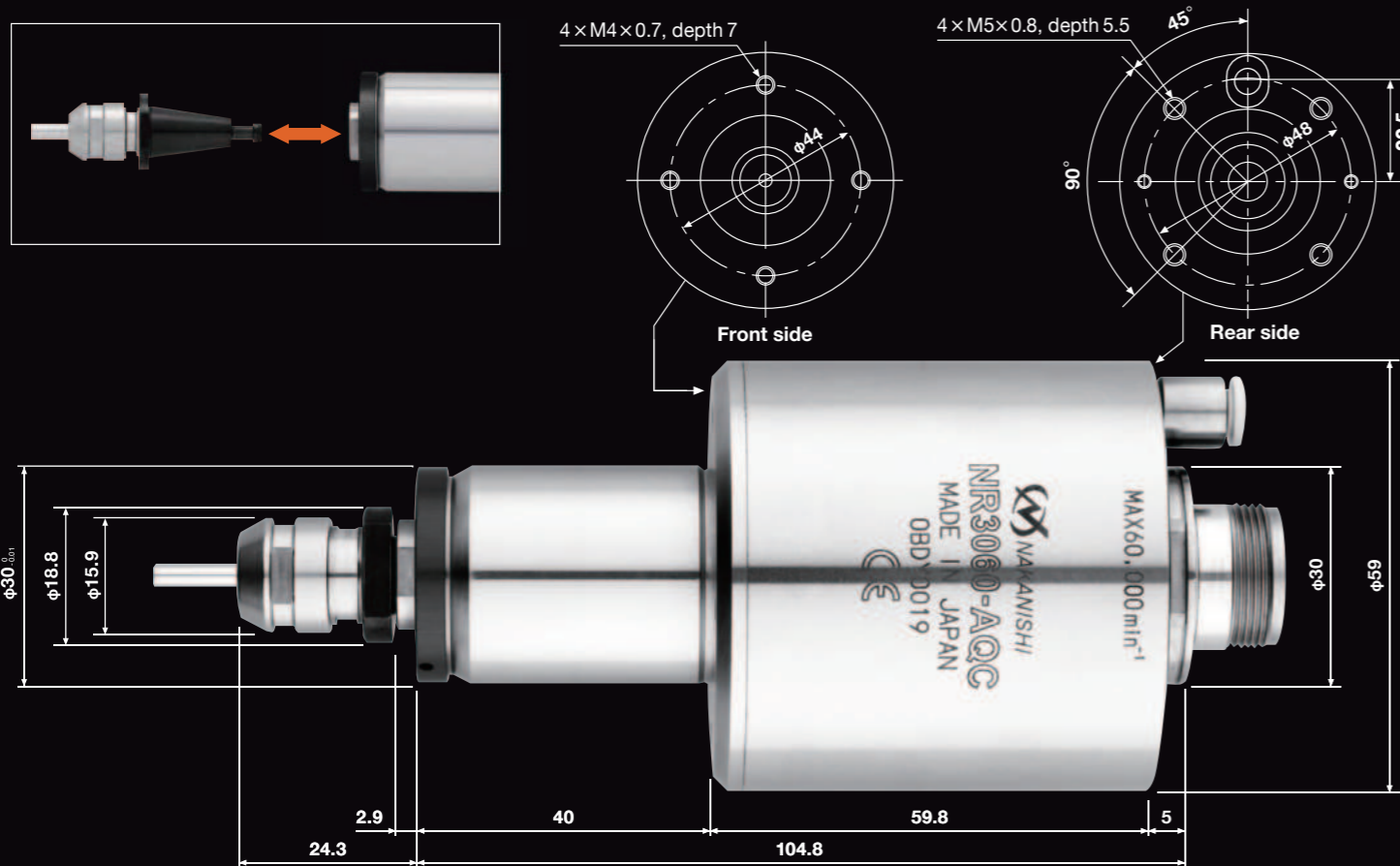
NR3060-AQC

Air quick change spindle

- Quick and easy Collet holder change with air chucking mechanism.
 - Enhancing productivity by enabling external tool set-up.
 - There are 3 models of Collet holders. The Collet holder model depends on the Collet type selected.
- Various sizes of Collets are available. (CHK $\phi 0.5$ mm– $\phi 6.35$ mm, CHA $\phi 0.5$ mm– $\phi 4.0$ mm, CHSS $\phi 1.0$ mm– $\phi 3.175$ mm)
- *The position of the mounting holes in front side and the rear side varies from product to product.

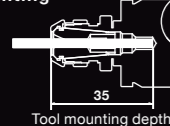


O.D. $\phi 30$ mm

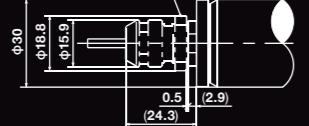


Outside view of the tip of the spindle

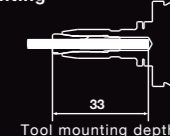
■QC3-K (Collet holder for CHK collet) when mounting



■QC3-A (Collet holder for CHA collet) when mounting



■QC3-SS (Collet holder for CHSS collet) when mounting



■QC3-SS (Collet holder for CHSS collet) when mounting



Specifications

CAD drawings

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

NR3060-AQC

Code No. **9220** Model **NR3060-AQC**

O.D.	Allowable motor speed	Air for replacing collet holders	Spindle accuracy	Collet holders	Net weight
$\phi 30$ mm	60,000 min ⁻¹	0.6 MPa	Within 1 μ m	QC3-K / QC3-K-R (for CHK collet) QC3-A / QC3-A-R (for CHA collet) QC3-SS (for CHSS collet)	1,230 g

Standard equipment and accessories Wrench (22 × 27): 1 pc. / Air hose with filter (K-251): $\phi 6$ mm × 2 m

Options

Collet	Collet holder (Collet nut included)	Wrench
<p>CHK</p> <p>I.D. $\phi 0.5$–$\phi 6.35$ mm p. 8-5</p>	<p>You can choose the I.D. size (The following is an example of $\phi 3.0$ mm.)</p> <p>QC3-K / A QC3-K / A-R</p>	<p>Wrench 12 × 14 (*Required 2 pcs.)</p>
<p>CHA</p> <p>I.D. $\phi 0.5$–$\phi 4.0$ mm p. 8-5</p>	<p>QC3-A QC3-A-R</p>	<p>Wrench 8 × 5 (1 pc.) Wrench 9 × 11 (1 pc.)</p>
<p>CHSS</p> <p>I.D. $\phi 1.0$–$\phi 3.175$ mm p. 8-6</p>	<p>QC3-SS</p>	<p>Wrench 6.1 × 8 (1 pc.) Wrench 9 × 11 (1 pc.)</p>

Preset adapter (for QC3 Collet holders)



*Holding section size is $\phi 20$.
*QC3-K-R / QC3-A-R cannot be used with the Preset adapter.

Code No.	9211
Model	QC3-ADP

[Use below wrenches when using Preset adapter]
for CHK collet: Wrench 12 × 14 (1 pc.)
for CHA collet: Wrench 9 × 11 (1 pc.)
for CHSS collet: Wrench 6.1 × 8 (1 pc.)
See p. 8-11

E4000

E3000

E2000

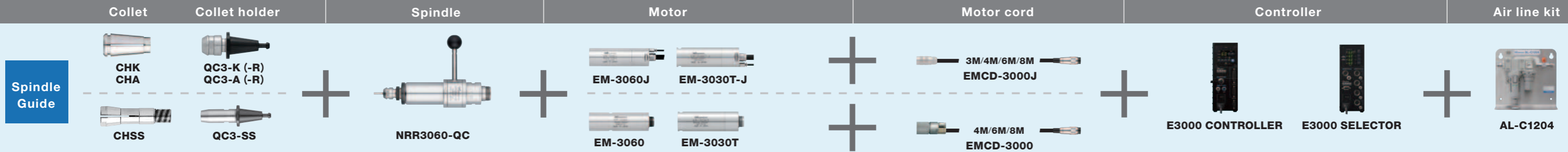
ISpeed3

Air-Speed

HES

TURBINES

ACCESSORIES



E3000 SERIES

Shown In Actual Size

Order by Code No.

Spindle (Modular type)

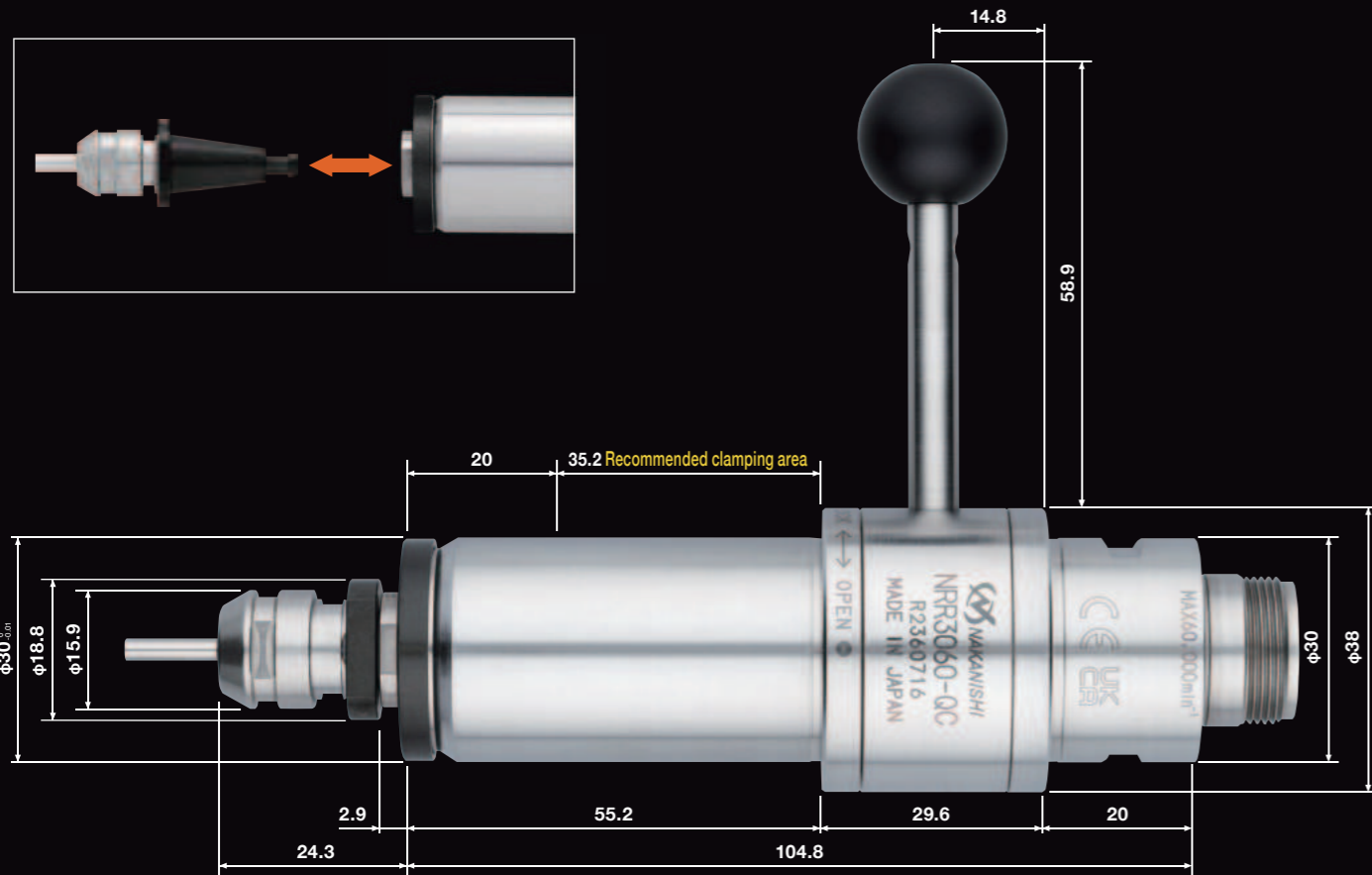
NRR3060-QC

Lever quick change spindle



O.D. ϕ 30 mm

- Quick and easy Collet holder change with lever chucking mechanism.
 - Enhancing productivity by enabling external tool set-up.
 - There are 3 models of Collet holders. The Collet holder model depends on the Collet type selected.
- Various sizes of Collets are available. (CHK ϕ 0.5 mm– ϕ 6.35 mm, CHA ϕ 0.5 mm– ϕ 4.0 mm, CHSS ϕ 1.0 mm– ϕ 3.175 mm)

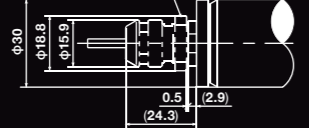


Outside view of the tip of the spindle

■QC3-K (Collet holder for CHK collet) when mounting



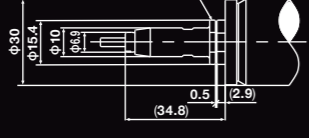
■QC3-A (Collet holder for CHA collet) when mounting



■QC3-SS (Collet holder for CHSS collet) when mounting



■QC3-SS (Collet holder for CHSS collet) when mounting



Specifications

CAD drawings

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

NRR3060-QC

Code No. **9208** Model **NRR3060-QC**

O.D.	Allowable motor speed	Lever operating angle	Spindle accuracy	Collet holders	Net weight
ϕ 30 mm Recommended clamping area	60,000 min ⁻¹	90°	Within 1 μ m	QC3-K / QC3-K-R (for CHK collet) QC3-A / QC3-A-R (for CHA collet) QC3-SS (for CHSS collet)	570 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc.				

Options

Collet	You can choose the I.D. size (The following is an example of ϕ 3.0 mm.)		Collet holder (Collet nut included)	Wrench	
CHK I.D. ϕ 0.5– ϕ 6.35 mm p. 8-5	Code No.	91 5 3 0	9210 QC3-K (for CHK collet)	9223 QC3-K-R (for CHK collet)	2026 Wrench 12 × 14 (*Required 2 pcs.)
	Model	CHK- 3 . 0 (I.D. ϕ 3.0 mm)	or		
CHA I.D. ϕ 0.5– ϕ 4.0 mm p. 8-5	Code No.	914 3 0	9209 QC3-A (for CHA collet)	9222 QC3-A-R (for CHA collet)	2012 Wrench 8 × 5 (1 pc.)
	Model	CHA- 3 . 0 (I.D. ϕ 3.0 mm)	or		
CHSS I.D. ϕ 1.0– ϕ 3.175 mm p. 8-6	Code No.	930 3 0	7794 QC3-SS (for CHSS collet)	2069	2054 Wrench 9 × 11 (1 pc.)
	Model	CHSS- 3 . 0 (I.D. ϕ 3.0 mm)	or		

Preset adapter (for QC3 Collet holders)



*Holding section size is ϕ 20.
*QC3-K-R / QC3-A-R cannot be used with the Preset adapter.

Code No.	9211
Model	QC3-ADP

[Use below wrenches when using Preset adapter]
for CHK collet: Wrench 12 × 14 (1 pc.)
for CHA collet: Wrench 9 × 11 (1 pc.)
for CHSS collet: Wrench 6.1 × 8 (1 pc.)
See p. 8-11

E4000

E3000

E2000

Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle Guide



CHN-CTA



CHA AA



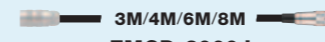
CTS-2630



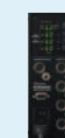
EM-3030T-J



EM-3030T

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

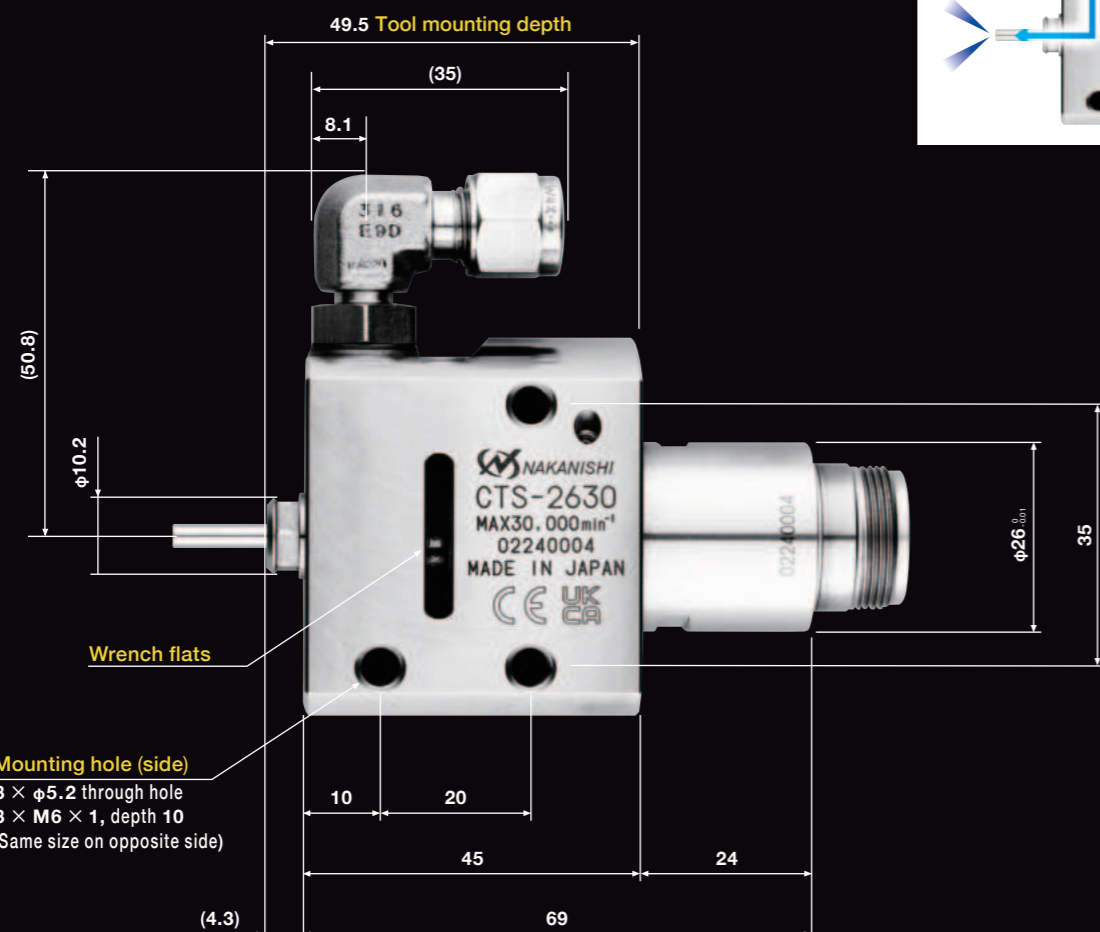
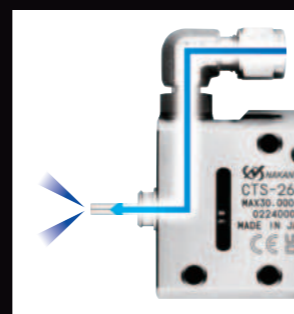
Order by Code No.

Spindle (Modular type)

CTS-2630

Coolant through spindle

- For deep hole drilling with an oil hole drill.
- There are several advantages to injecting coolant from the tip of the drill: improved chip discharge, reduced drilling time, longer tool life, and high precision drilling.

O.D. ϕ 26 mm

High pressure pump and coolant hose, etc. must be arranged by the customer.

Specifications

CAD drawings

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

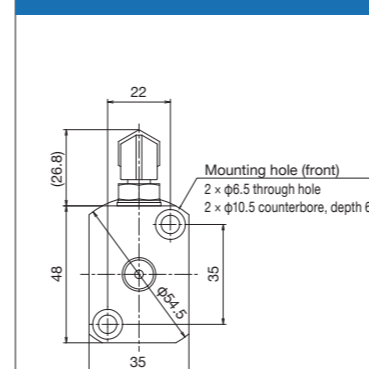
CTS-2630

Code No. **7907**Model **CTS-2630**

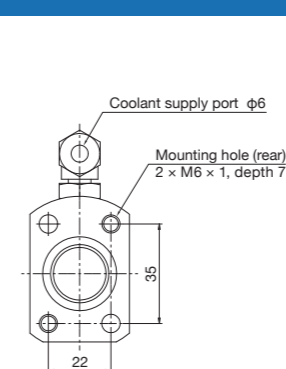
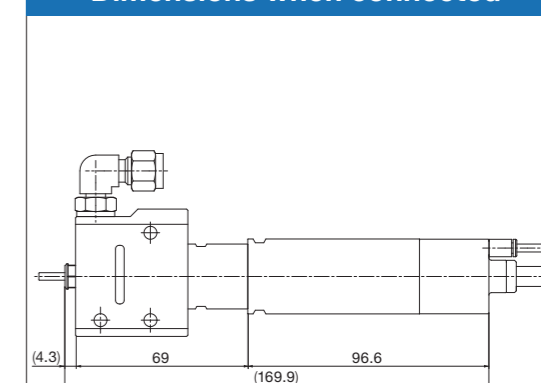
O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
ϕ 26 mm	30,000 min ⁻¹	Within 1 μ m	CHA Group AA (ϕ 3.0, ϕ 3.175, ϕ 4.0 mm)	570 g
Standard equipment and accessories	Wrench (8 \times 5) \cdot (9 \times 11) \cdot (20 \times 24): 1 pc. each *Collet and Collet nut are sold separately.			
Specifications	Coolant pressure: 3.0-20.0 MPa / Coolant filtration: 5 μ m or less			
Options	Collet (CHA Group high precision type AA): ϕ 3.0, ϕ 3.175, ϕ 4.0 mm p. 8-5 Collet nut (CHN-CTA): 3.0, 3.175, 4.0 mm *Please match the Collet and Collet nut size. p. 8-8			

Shank diameter of corresponding tool	Collet nut		Collet	
	Code No.	Model	Code No.	Model
ϕ 3.0	7798	CHN-CTA-3.0	91494	CHA-3.0AA
	7799	CHN-CTA-3.175	91496	CHA-3.175AA
ϕ 4.0	7800	CHN-CTA-4.0	91495	CHA-4.0AA

Front view



Rear view

Motor: EM-3030T-J
Dimensions when connected

E4000

E3000

E2000

Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Speed reducer (Modular type)

ARG-011E Speed reducer (1/4)



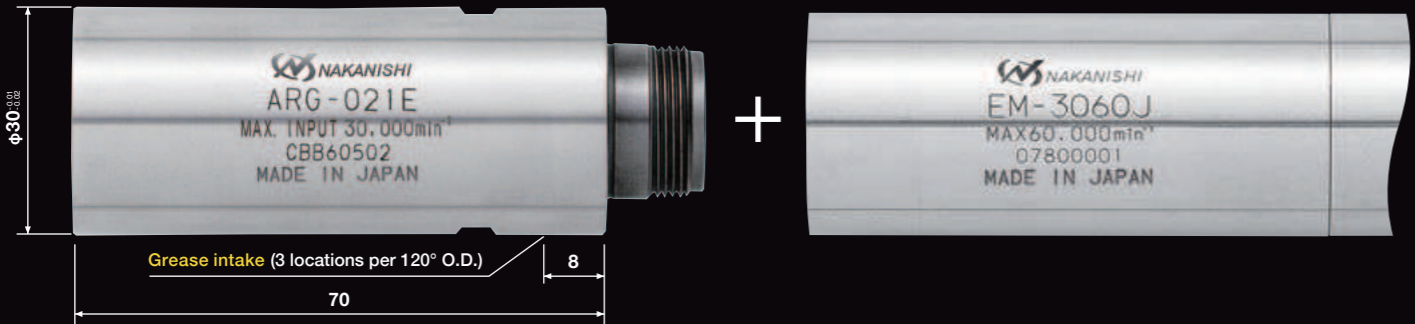
O.D. φ30 mm



ARG-021E Speed reducer (1/16)



O.D. φ30 mm

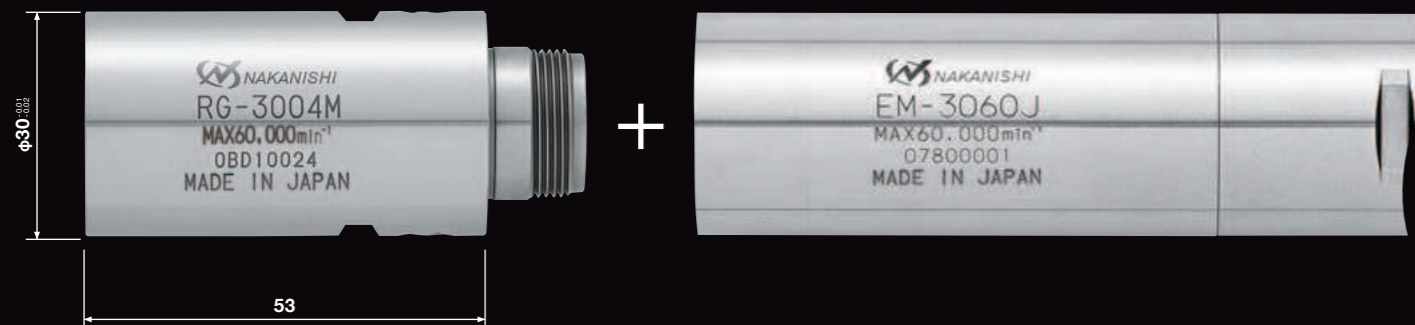


RG-3004M Oil mist type speed reducer (1/4)



O.D. φ30 mm

- Max. input speed is 60,000 min⁻¹.
- Longer spindle life by oil mist lubrication.
- No need to inject grease, which reduces labor hours.
- *Oil mist supply is required.
- *Not supported for dry machining.



Specifications

CAD drawings

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

ARG-011E

Code No. **1507** Model **ARG-011E**



O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	Net weight
φ30 mm	7,500 min ⁻¹	$\frac{1}{4}$	30,000 min ⁻¹ (Allowable rotational speed)	242 g
Standard equipment and accessories Grease for Speed reducer (10 mL) / Grease nipple: 1 pc.				

! Inject grease every 70–100 hours to extend the life of the Speed reducer.
Grease injection prevents the friction of the internal gears and the degradation of the existing grease.

ARG-021E

Code No. **1508** Model **ARG-021E**

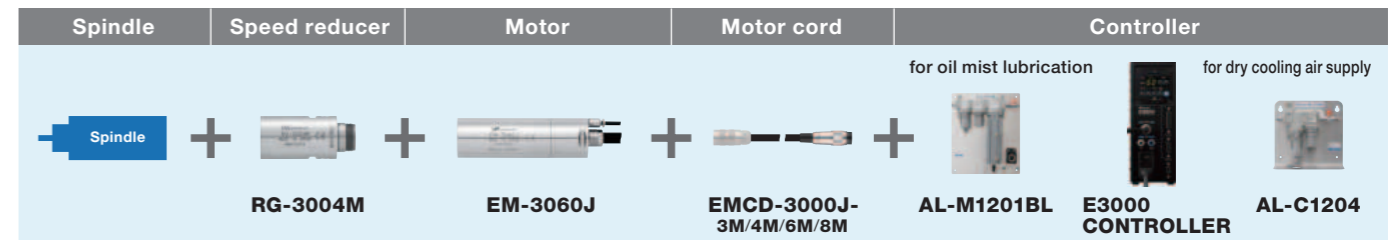


O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	Net weight
φ30 mm	1,870 min ⁻¹	$\frac{1}{16}$	30,000 min ⁻¹ (Allowable rotational speed)	325 g
Standard equipment and accessories Grease for Speed reducer (10 mL) / Grease nipple: 1 pc.				

! Inject grease every 70–100 hours to extend the life of the Speed reducer.
Grease injection prevents the friction of the internal gears and the degradation of the existing grease.

RG-3004M

Code No. **7348** Model **RG-3004M**



O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	Net weight
φ30 mm	15,000 min ⁻¹	$\frac{1}{4}$	60,000 min ⁻¹ (Allowable rotational speed)	240 g

E4000

E3000

E2000

Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

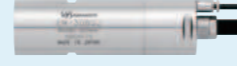
Spindle Guide



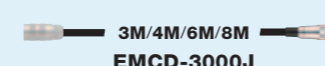
CHA



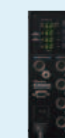
NR-3080S



EM-3080J

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Spindle (Modular type)

Order by Code No.

Specifications

CAD drawings

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

NR-3080S

Short spindle

O.D. ϕ 30 mm

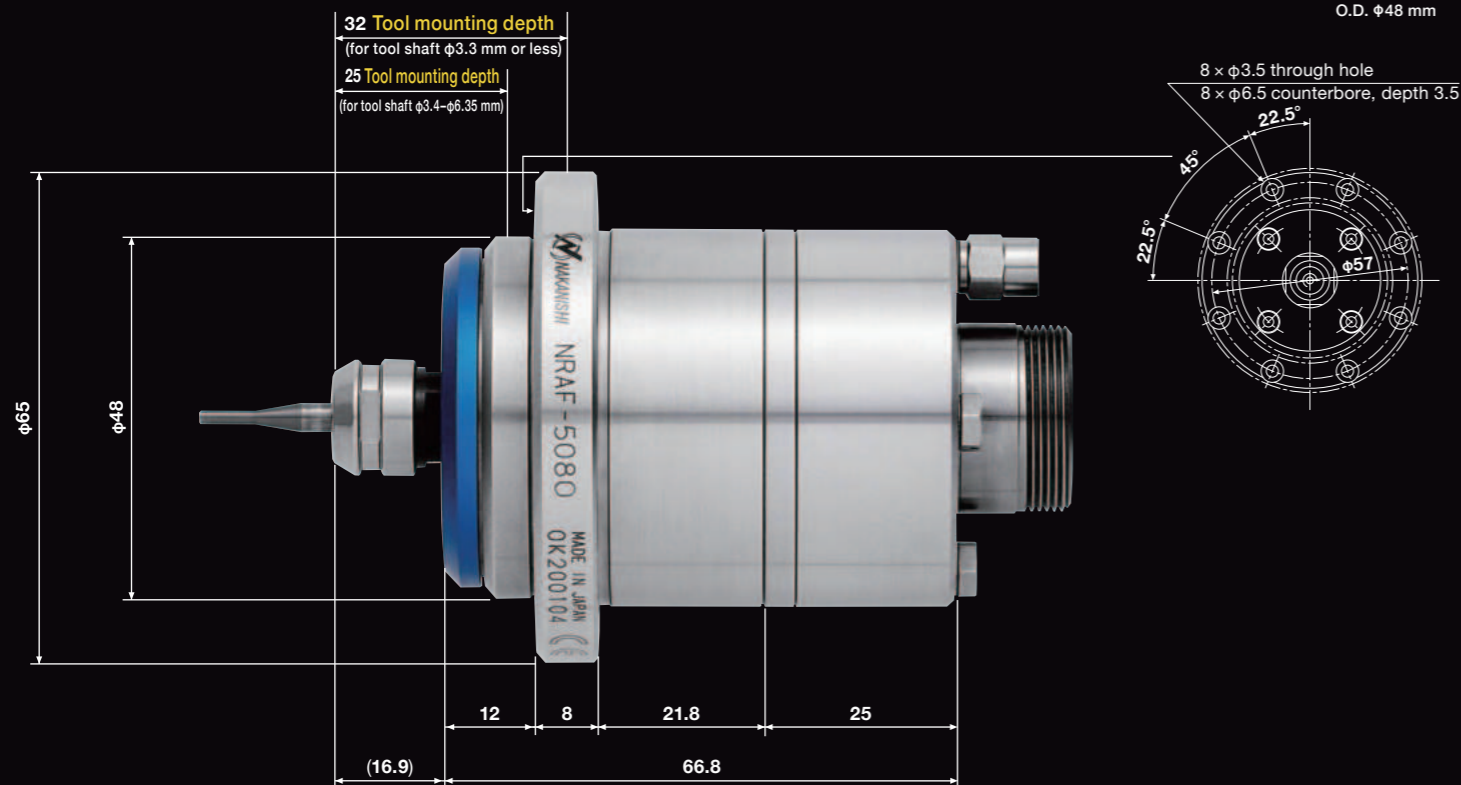
NR-3080S

Code No. **7876**Model **NR-3080S**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
ϕ 30 mm	80,000 min ⁻¹	Within 1 μ m	CHA Group (ϕ 0.5– ϕ 4.0 mm)	170 g
Standard equipment and accessories	Collet nut (CHN-A) / Wrench (22 × 27) · (8 × 5) · (9 × 11): 1 pc. each *Collet is sold separately.			
Options	Collet (CHA Group): ϕ 0.5– ϕ 4.0 mm p. 8-5			

NRAF-5080

Air bearing spindle

O.D. ϕ 48 mm

NRAF-5080

Code No. **1782**Model **NRAF-5080**

Spindle	Motor	Motor cord	Controller	Air line kit
NRAF-5080	EM-3080J	EMCD-3000J-3M/4M/6M/8M	E3000 CONTROLLER	AL-A0611 AL-A1205

O.D.	Allowable motor speed	Appropriate bearing air pressure	Spindle accuracy	Collet	Net weight
ϕ 48 mm	80,000 min ⁻¹	0.5 MPa (35 NL/min)	Within 1 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	810 g
Specifications	Body mounting: flange mounting, M3 bolt (8 locations, equidistribution, 45° angle, PCD57) Bearing type: air static bearing / Bearing load capacity: radial 18N, thrust 35N Usable max. diameter of grindstone: ϕ 8.0 mm and under on ϕ 6.0 mm shank Hose diameter: ϕ 4.0 mm, for bearing air intake				
Standard equipment and accessories	Collet: ϕ 3.0 mm (CHK-3.0) / Collet nut (K-265A) / Wrench (12 × 14): 2 pcs. Reducer: 1 pc. / Intake air hose (ϕ 4 mm × 4 m): 1 pc. / Bar wrench (K-236): 1 pc.				
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5				

Motor (Modular type)

EM-3060

60,000 min⁻¹ motor

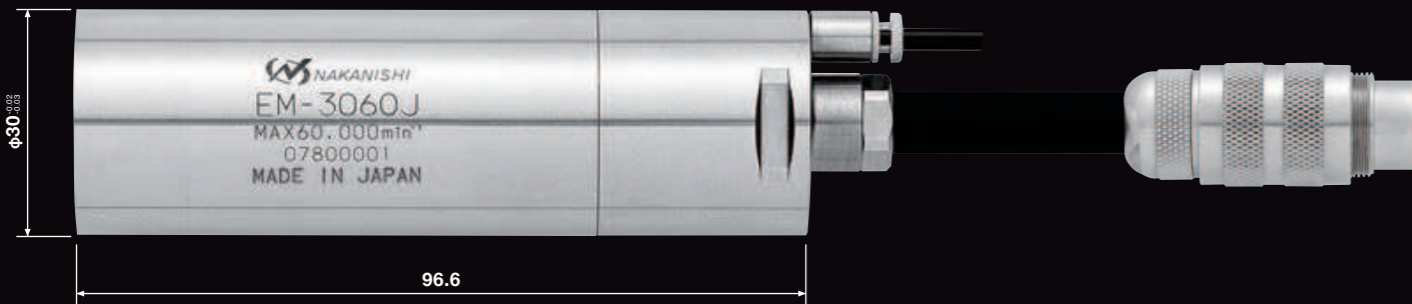
O.D. φ30 mm



EM-3060J

60,000 min⁻¹ motor with joint type motor cord

O.D. φ30 mm



Cord length: 0.3 m or 2 m

Specifications

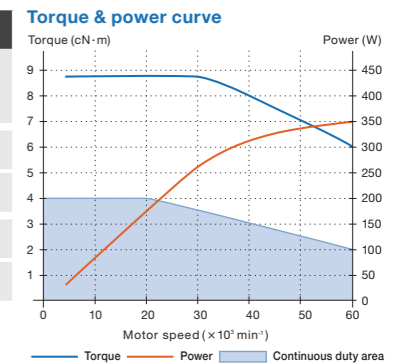
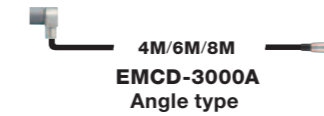
CAD drawings

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

EM-3060

Code No. **1597**Model **EM-3060**

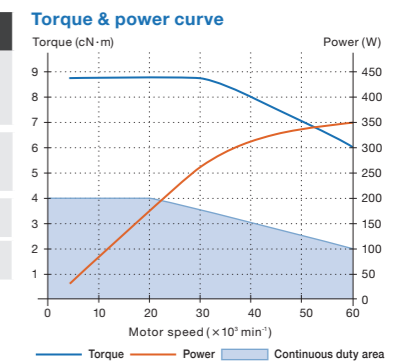
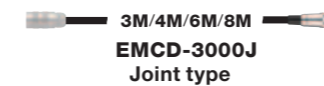
O.D.	Motor speed	Max. power	Net weight
φ30 mm	1,000–60,000 min ⁻¹	350 w	325 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc. *Straight or Angle type motor cord is required separately.		
Options	Motor cord (Straight): 4 m (1748), 6 m (1749), 8 m (1750) Motor cord (Angle): 4 m (1744), 6 m (1743), 8 m (1742) p. 2-47		



EM-3060J

Cord length **0.3 m**Code No. **1765**Model **EM-3060J**Cord length **2 m**Code No. **1779**Model **EM-3060J-2M**

O.D.	Motor speed	Max. power	Min. bending cord radius	Net weight
φ30 mm	1,000–60,000 min ⁻¹	350 w	60 mm	0.3 m: 360 g 2 m: 525 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc. *Joint type motor cord is required separately.			
Options	Motor cord (Joint): 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 *8M motor cord cannot be used with EM-3060J-2M.			



Motor (Modular type)

EM-3030T

30,000 min⁻¹ torque motor

• The torque is twice to that of EM-3060.



O.D. φ30 mm



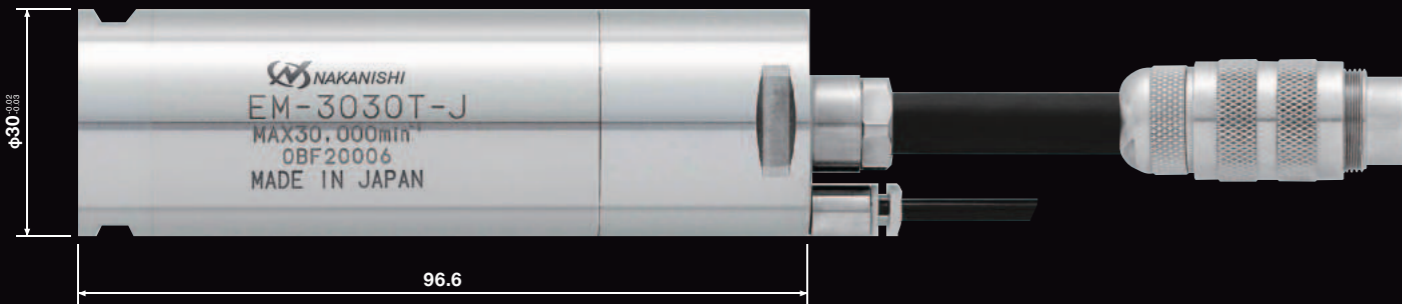
EM-3030T-J

30,000 min⁻¹ torque motor with joint type motor cord

• The torque is twice to that of EM-3060J.



O.D. φ30 mm



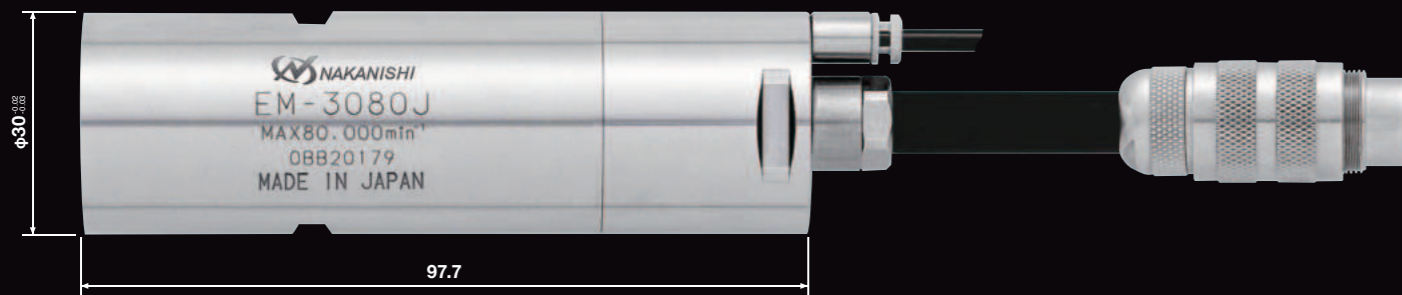
Cord length: 0.3 m or 2 m

EM-3080J

80,000 min⁻¹ motor with joint type motor cord



O.D. φ30 mm



Cord length: 0.3 m or 2 m

Specifications

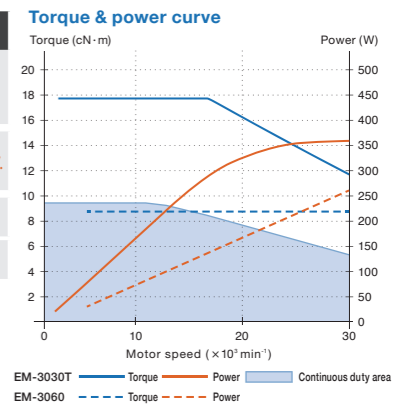
CAD drawings

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

EM-3030T

Code No. **7360** Model **EM-3030T**

O.D.	Motor speed	Max. power	Net weight
φ30 mm	1,000–30,000 min ⁻¹	350 w	350 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc. <i>*Straight or Angle type motor cord is required separately.</i>		
Options	Motor cord (Straight): 4 m (1748), 6 m (1749), 8 m (1750) Motor cord (Angle): 4 m (1744), 6 m (1743), 8 m (1742) p. 2-47		



Note to customers who already have an E3000 controller



Non applicable controller



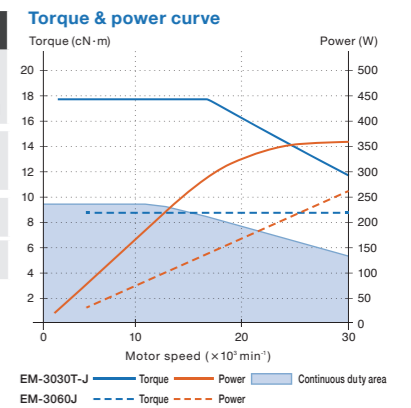
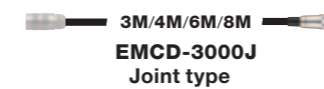
Applicable controller

If EM-3030T is connected to non-applicable controller, it will not rotate.

EM-3030T-J

Cord length **0.3 m** Code No. **7358** Model **EM-3030T-J**
Cord length **2 m** Code No. **7359** Model **EM-3030T-J-2M**

O.D.	Motor speed	Max. power	Min. bending cord radius	Net weight
φ30 mm	1,000–30,000 min ⁻¹	350 w	60 mm	0.3 m: 425 g 2 m: 600 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc. <i>*Joint type motor cord is required separately.</i>			
Options	Motor cord (Joint): 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 <i>*8M motor cord cannot be used with EM-3030T-J-2M.</i>			



Note to customers who already have an E3000 controller



Non applicable controller



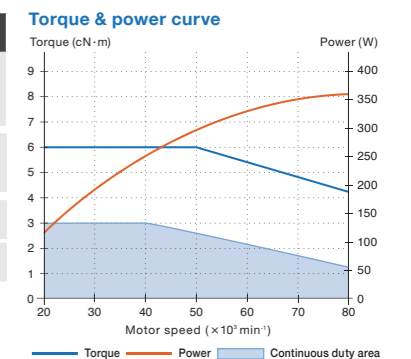
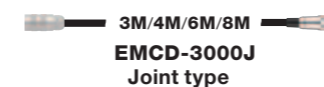
Applicable controller

If EM-3030T-J (-2M) is connected to non-applicable controller, it will not rotate.

EM-3080J

Cord length **0.3 m** Code No. **1781** Model **EM-3080J**
Cord length **2 m** Code No. **1788** Model **EM-3080J-2M**

O.D.	Motor speed	Max. power	Min. bending cord radius	Net weight
φ30 mm	20,000–80,000 min ⁻¹	350 w	60 mm	0.3 m: 375 g 2 m: 550 g
Standard equipment and accessories	Wrench (22 × 27): 1 pc. <i>*Joint type motor cord is required separately.</i>			
Options	Motor cord (Joint): 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 <i>*8M motor cord cannot be used with EM-3080J-2M.</i>			



E4000

E3000

E2000

Speed3

Air-Speed

HES

TURBINES

ACCESSORIES

Spindle Guide



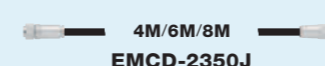
CHK



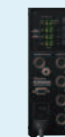
NR-2551



EM25N-5000J

4M/6M/8M
EMCD-2350J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

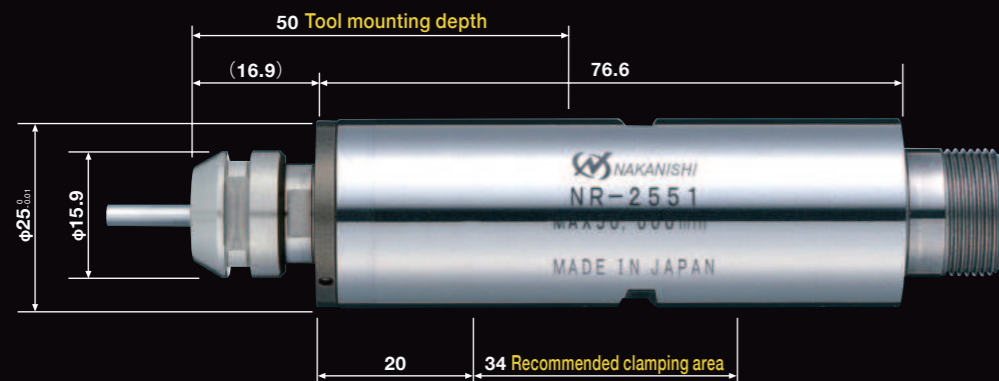
Shown In Actual Size

Order by Code No.

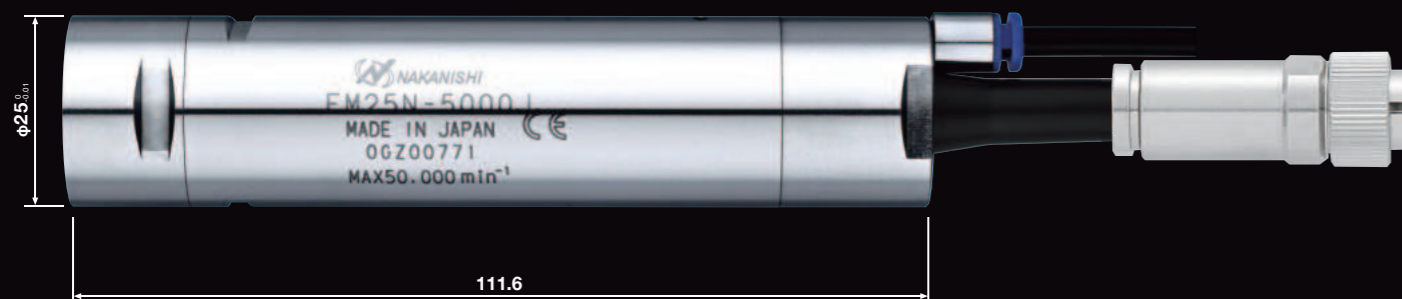
Spindle (Modular type)

NR-2551

Straight spindle

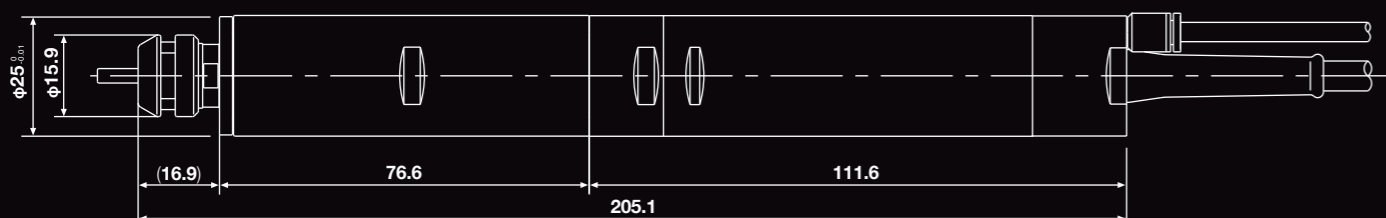
O.D. ϕ 25 mm

EM25N-5000J

50,000 min⁻¹ motorO.D. ϕ 25 mm

Cord length: 0.3 m

Dimensions when connected



Specifications

CAD drawings

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

NR-2551

Code No. **7853**Model **NR-2551**

O.D.	Allowable motor speed	Spindle accuracy	Collet	Net weight
ϕ 25 mm	50,000 min ⁻¹	Within 1 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	253 g
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. · (22 × 27): 1 pc. *Collet is sold separately.			
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) p. 8-12			

*Outside diameter ϕ 25.4 mm is also available. The code number is 7854 and the model is NR-H2551.

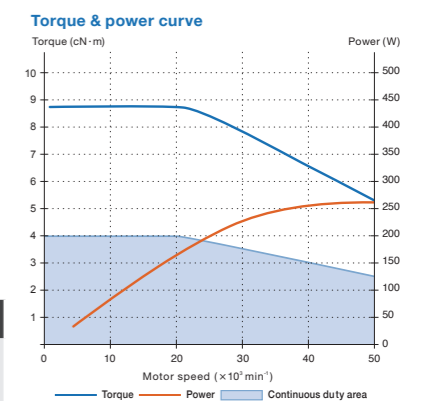
EM25N-5000J

Code No. **7904**Model **EM25N-5000J**

O.D.	Motor speed	Max. power	Min. bending cord radius	Net weight
ϕ 25 mm	1,000–50,000 min ⁻¹	250 w	60 mm	335 g

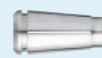
Standard equipment and accessories Wrench (22 × 27): 1 pc. ***EMCD-2350J-4M/6M/8M motor cord is required separately.**

Options					
Motor cord	Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
4M	7722	EMCD-2350J-4M	3.7 m	Air hose Connector cap (included)	EM25N-5000J
6M	7723	EMCD-2350J-6M	5.7 m		
8M	7724	EMCD-2350J-8M	7.7 m		
Joint type					



*The minimum cord bending radius is 45 mm.

Spindle Guide



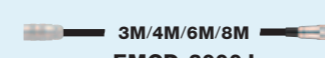
CHK



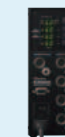
EMS-3060K



EMR-3008K

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Order by Code No.

Motor spindle (One-piece type)

EMS-3060K

Motor spindle

O.D. ϕ 30 mm

Cord length: 0.3 m

EMR-3008K

Motor spindle with reduction gear

O.D. ϕ 30 mm

Cord length: 0.3 m

Specifications

CAD drawings

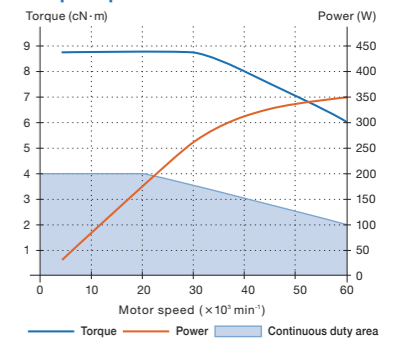
CAD drawings (DXF/STEP) are available on our website

EMS-3060K

Code No. **7862**Model **EMS-3060K**

O.D.	Motor speed	Spindle accuracy	Collet
ϕ 30 mm	60,000 min ⁻¹	Within 1 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)
Max. power	Min. bending cord radius	Net weight	
350 w	60 mm	565 g	
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. *Collet is sold separately.		
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5 Motor cord: 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) Grindstone flange (EGF-19) p. 8-12		

Torque & power curve

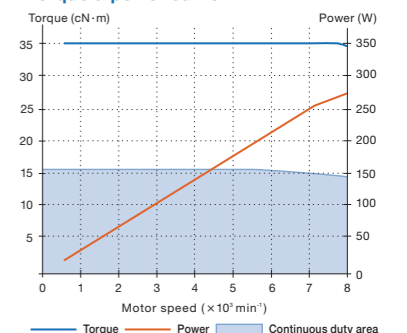


EMR-3008K

Code No. **7869**Model **EMR-3008K**

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed	
ϕ 30 mm	8,000 min ⁻¹	$\frac{1}{4}$	32,000 min ⁻¹ (Allowable rotational speed)	
Spindle accuracy	Collet	Max. power	Min. bending cord radius	Net weight
Within 1 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	350 w	60 mm	650 g
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. Grease for Speed reducer (10 mL) / Grease nipple: 1 pc. *Collet is sold separately.			
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5 Motor cord: 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) Grindstone flange (EGF-19) p. 8-12			

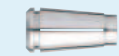
Torque & power curve



Inject grease every 70–100 hours to extend the life of the Speed reducer.

Grease injection prevents the friction of the internal gears and the degradation of the existing grease.

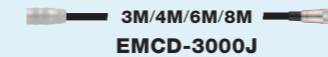
Spindle Guide



CHK



EMA-3020K

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Motor spindle (One-piece type)

Order by Code No.

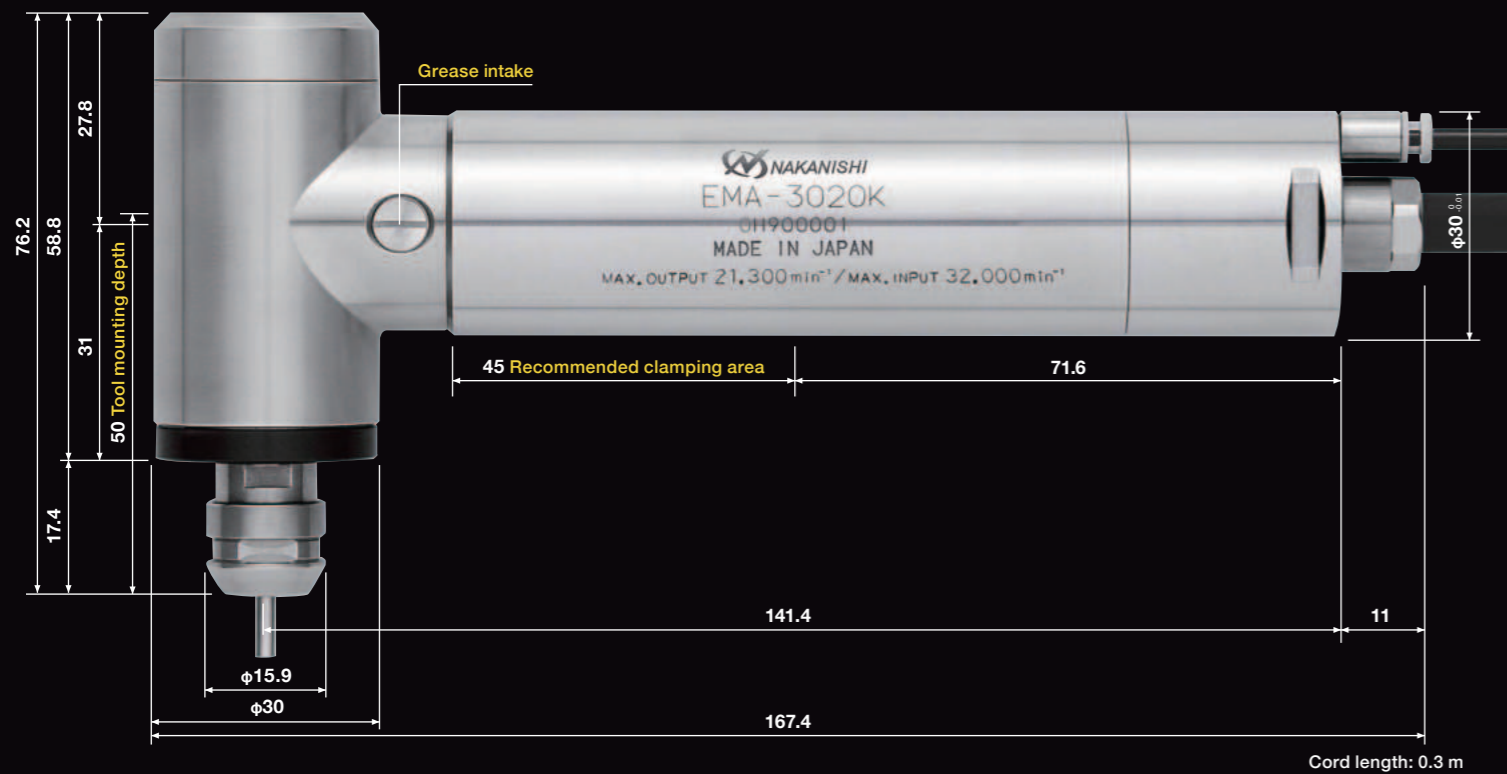
Specifications

CAD drawings

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

EMA-3020K

Angle motor spindle with standard head

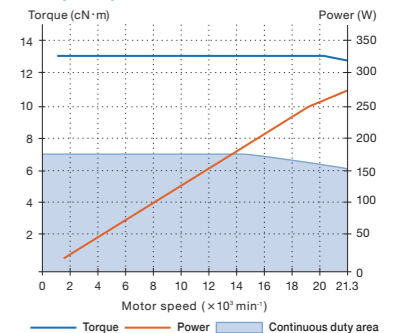
O.D. ϕ 30 mm

EMA-3020K

Code No. **7874**Model **EMA-3020K**

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed
ϕ 30 mm	21,300 min ⁻¹	$\frac{1}{1.5}$	32,000 min ⁻¹ (Allowable rotational speed)
Spindle accuracy	Collet	Max. power	Min. bending cord radius
Within 2 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)	280 w	60 mm
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. Grease for Speed reducer (10 mL) / Grease nipple: 1 pc. *Collet is sold separately.		
Options	Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5 Motor cord: 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) p. 8-12		

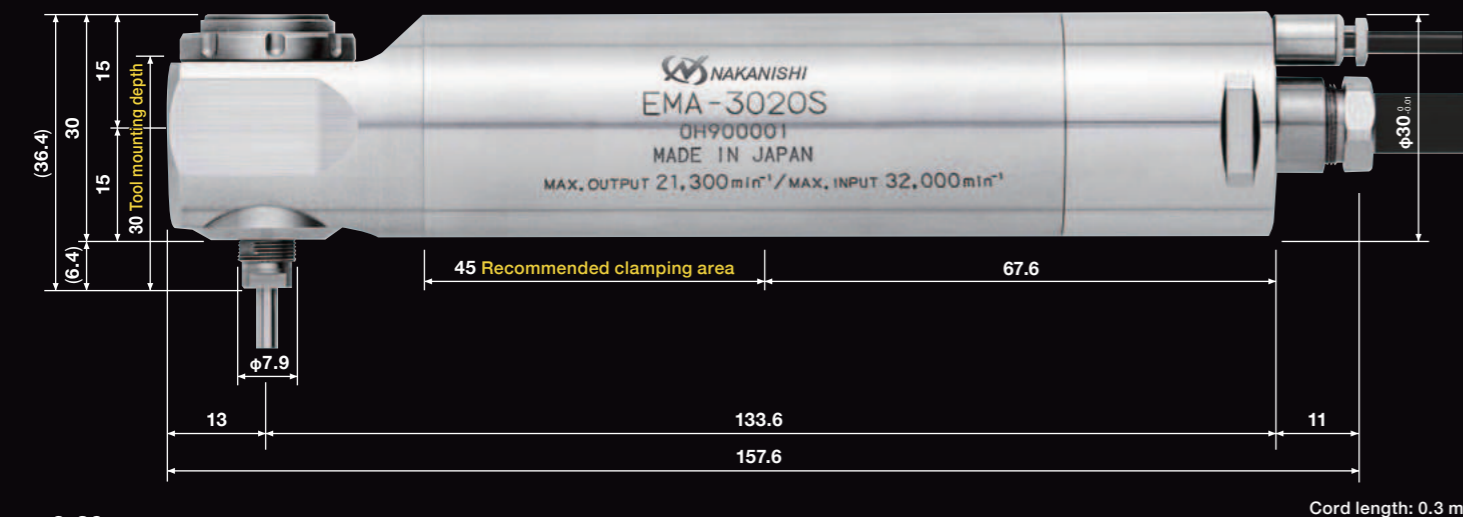
Torque & power curve



Inject grease every 70–100 hours to extend the life of the Speed reducer.
Grease injection prevents the friction of the internal gears and the degradation of the existing grease.

EMA-3020S

Angle motor spindle with built-in head

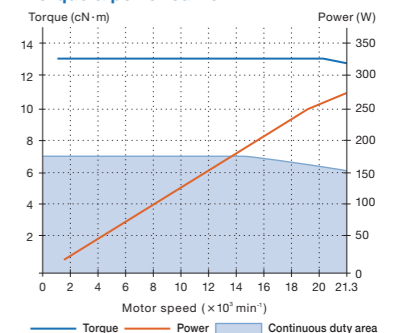
O.D. ϕ 30 mm

EMA-3020S

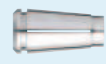
Code No. **1758**Model **EMA-3020S**

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. allowable motor speed
ϕ 30 mm	21,300 min ⁻¹	$\frac{1}{1.5}$	32,000 min ⁻¹ (Allowable rotational speed)
Spindle accuracy	Collet	Max. power	Min. bending cord radius
Within 3 μ m	CHSS Group (ϕ 1.0– ϕ 3.175 mm)	275 w	60 mm
Standard equipment and accessories	Collet: ϕ 3.0 mm (CHSS-3.0) / Wrench (7 × 5.1) · (8 × 6.1): 1 pc. each		
Options	Collet (CHSS Group): ϕ 1.0– ϕ 3.175 mm p. 8-6 Motor cord: 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47		

Torque & power curve



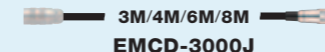
Spindle Guide



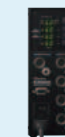
CHK



EMSF-3060K

3M/4M/6M/8M
EMCD-3000J

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Order by Code No.

Motor spindle (One-piece type)

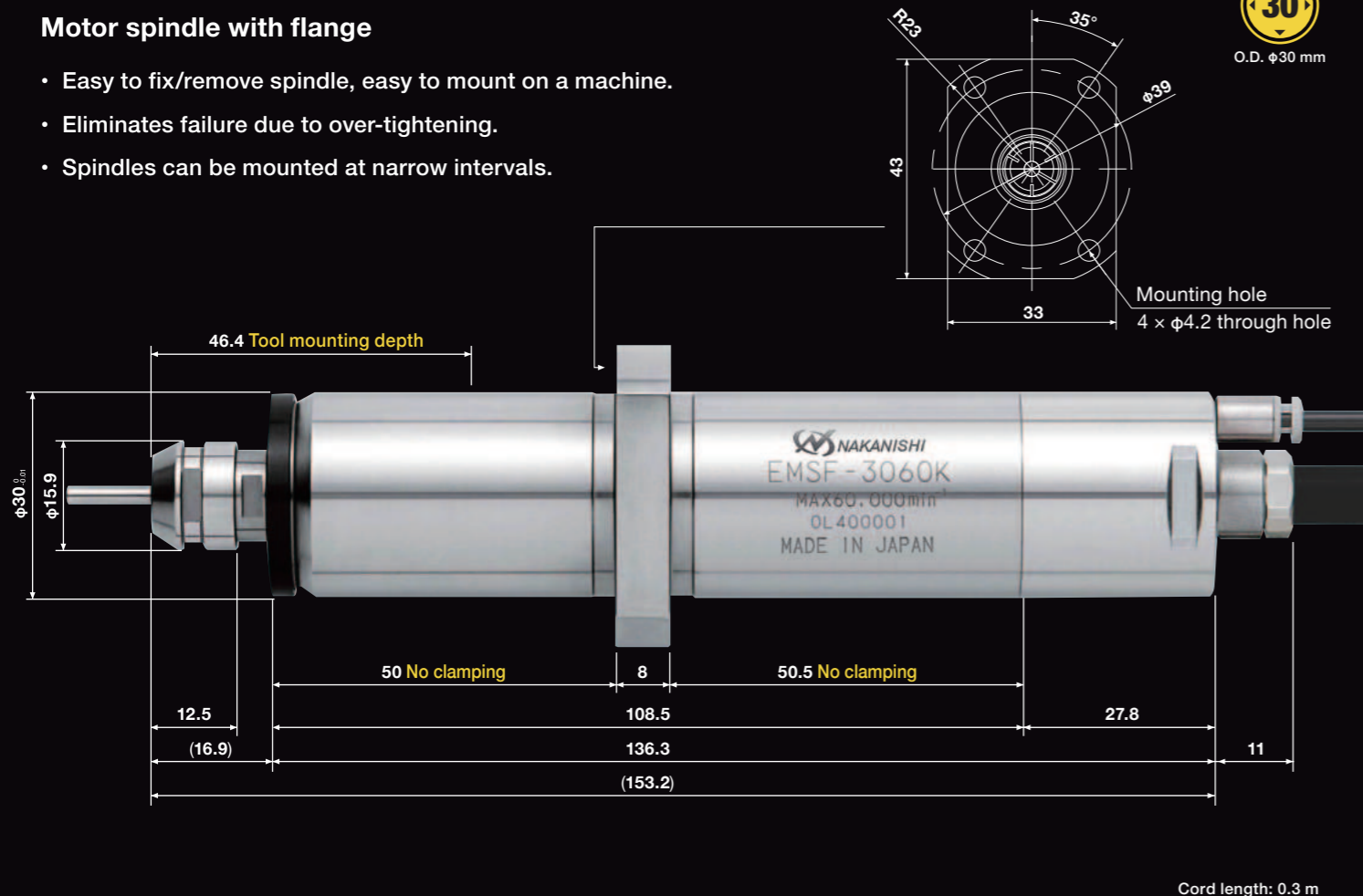
CAD drawings

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

EMSF-3060K

Motor spindle with flange

- Easy to fix/remove spindle, easy to mount on a machine.
- Eliminates failure due to over-tightening.
- Spindles can be mounted at narrow intervals.

O.D. ϕ 30 mm

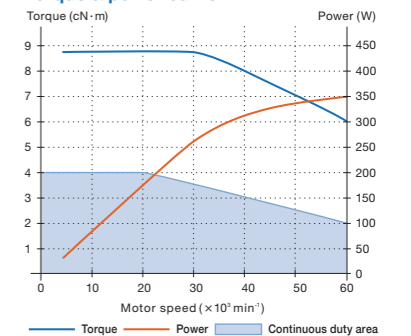
Specifications

EMSF-3060K

Code No. **7863**Model **EMSF-3060K**

O.D.	Motor speed	Spindle accuracy	Collet
ϕ 30 mm	60,000 min ⁻¹	Within 1 μ m	CHK Group (ϕ 0.5– ϕ 6.35 mm)
Max. power	Min. bending cord radius	Net weight	
350 w	60 mm	620 g	
Standard equipment and accessories	Collet nut (K-265) / Wrench (12 × 14): 2 pcs. / Air hose 0.3 m: 1 pc. Lock bolt (M4 hexagon socket head bolt): 4 pcs.		
Options	*Collet is sold separately. Collet (CHK Group): ϕ 0.5– ϕ 6.35 mm p. 8-5 Motor cord: 3 m (1778), 4 m (1768), 6 m (1767), 8 m (1766) p. 2-47		

Torque & power curve



Various mounting methods

Three types of products are available to meet your mounting needs.



Straight type

Need to make a holder to mount on a machine



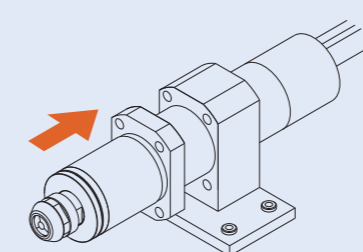
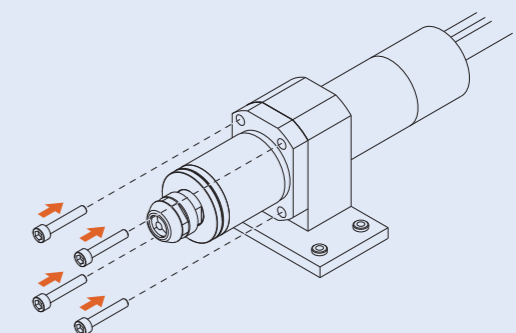
Straight type + Grip ring

Attach the GR-30 Grip ring (sold separately) to the spindle
Eliminates the need to make your own holder

Flange type

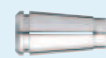
Spindle and holder integrated type

How to mount flange type spindles on a machine

1 Insert motor spindle body into the holder**2** Tighten the M4 lock bolts into the 4 mounting holes on the flange

*Above figures show EMSF-3060K. NRF-3060S has 3 mounting holes (See p. 2-7).

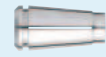
Spindle Guide



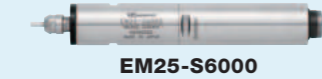
CHK



EM30-S6000



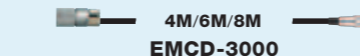
CHA



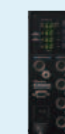
EM25-S6000



EM20-S6000

4M/6M/8M
EMCD-3000

E3000 CONTROLLER



E3000 SELECTOR



AL-C1204

E3000 SERIES

Shown In Actual Size

Motor spindle (One-piece type)

Order by Code No.

EM30-S6000

φ30 motor spindle (use CHK collet)



O.D. φ30 mm



EM25-S6000

φ25 motor spindle (use CHA collet)



O.D. φ25 mm



EM20-S6000

φ20 motor spindle (use CHA collet)



O.D. φ20 mm



Specifications

CAD drawings

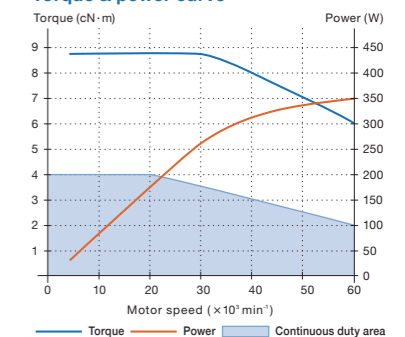
CAD drawings (DXF/STEP) are available on our website

EM30-S6000

Code No. **7903** Model **EM30-S6000**

O.D.	Motor speed	Spindle accuracy	Collet	Max. power	Net weight
φ30 mm	60,000 min ⁻¹	Within 1 μm	CHK Group (φ0.5–φ6.35 mm)	350 w	575 g
Standard equipment and accessories		Collet nut (K-265) / Wrench (12 × 14): 2 pcs. *Collet is sold separately.			
Options		Collet (CHK Group): φ0.5–φ6.35 mm p. 8-5 Motor cord (Straight): 4 m (1748), 6 m (1749), 8 m (1750) Motor cord (Angle): 4 m (1744), 6 m (1743), 8 m (1742) p. 2-47 Metal saw arbor (KCH-03): 3 sizes / Grindstone arbor (AGM-03) Grindstone flange (EGF-19) p. 8-12			

Torque & power curve

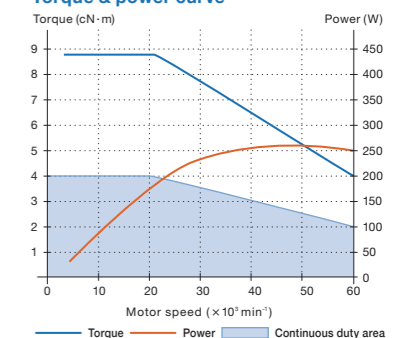


EM25-S6000

Code No. **7858** Model **EM25-S6000**

O.D.	Motor speed	Spindle accuracy	Collet	Max. power	Net weight
φ25 mm	60,000 min ⁻¹	Within 1 μm	CHA Group (φ0.5–φ4.0 mm)	250 w	375 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 (1748), 6 m (1749), 8 m (1750) Motor cord (Angle): 4 m (1744), 6 m (1743), 8 m (1742) p. 2-47			

Torque & power curve

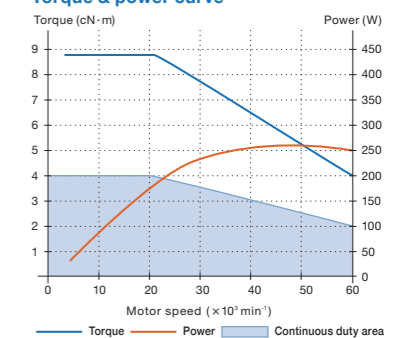


EM20-S6000

Code No. **7860** Model **EM20-S6000**

O.D.	Motor speed	Spindle accuracy	Collet	Max. power	Net weight
φ20 mm	60,000 min ⁻¹	Within 1 μm	CHA Group (φ0.5–φ4.0 mm)	250 w	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 (Straight): 4 m (1748), 6 m (1749), 8 m (1750) Motor cord (Angle): 4 m (1744), 6 m (1743), 8 m (1742) p. 2-47			

Torque & power curve



E3000 Controller

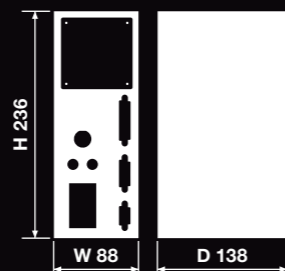


E3000 CONTROLLER

Controller

Code No.

8422



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.

Motor speed	
1,000–80,000 min ⁻¹	
Input voltage	
AC100–240 v Without plug Multiple output power	
Max. power	Power consumption
350 w	AC1.8 A
Air consumption	Net weight
30 NL/min (0.25–0.3 MPa)	2.8 kg
Standard equipment and accessories	
Power cord: 3 m / Air hose with filter (K-251: 2058): 2 m	
Reducer / Connector cap (included)	
Bracket / Nylon clip / Screw / Rubber pad	
Fuse T6.3AL 250V (2063): 2 pcs.	

E3000 Selector

Order by Code No.

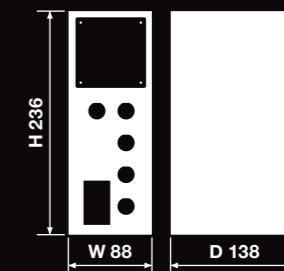


E3000 SELECTOR

Selector

Code No.

8426



Connectable number of motors

4 pcs.

Up to 4 motors can be connected to provide individual control of each motor

Input voltage

AC100–240 v Without plug
Multiple output power

Power consumption	Air consumption	Net weight
AC0.15 A	120 NL/min (when connecting 4 motors)	1.9 kg

Standard equipment and accessories

- Power cord: 3 m / Communication cable: 60 cm
- Selector connecting cord: 60 cm
- Connector cap (included) / Plug to avoid air flow
- Bracket / Nylon clip / Screw / Rubber pad
- Fuse T1.6AL 250V (D1203116010): 2 pcs.

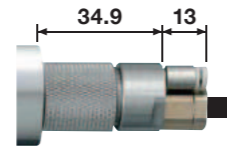
E4000
E3000
E2000
ISpeed3
Air-Speed
HES
TURBINES
ACCESSORIES

Motor cord

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

Straight type

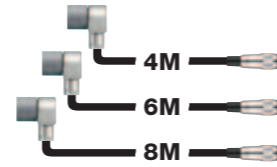
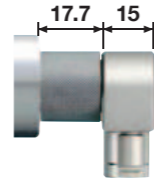
Direct connection to the body end



Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
1748	EMCD-3000-4M	4 m	Air hose Connector cap (included)	EM-3060 EM-3030T EM30-S6000 EM25-S6000 EM20-S6000
1749	EMCD-3000-6M	6 m		
1750	EMCD-3000-8M	8 m		

Angle type

Direct connection to the body end at a 90 degree angle



*Not recommend to CTS-2620A, CTS-2630, NR3060-AQC, NR33-6000ATC-ESD, NR40-5100 ATC, NR50-5100 ATC RS, NR50-6000ATC-RS, NRF-3060S, NRR-3060, NRR3060-QC, RA-151E, RA-271E, RAS-151E, RAX-271E, RAX-71E.

Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
1744	EMCD-3000A-4M	4 m	Air hose Connector cap (included)	EM-3060 EM-3030T EM30-S6000 EM25-S6000 EM20-S6000
1743	EMCD-3000A-6M	6 m		
1742	EMCD-3000A-8M	8 m		

Joint type

Connectable after the motor spindle is mounted



Code No.	Model	Cord length	Standard equipment and accessories	Compatible model
1778	EMCD-3000J-3M	3.0 m	Air hose Connector cap (included)	EM-3060J · EM-3030T-J EMS-3060K · EMR-3008K EMA-3020K · EMA-3020S EMSF-3060K · EM-3080J
1768	EMCD-3000J-4M	3.7 m		
1767	EMCD-3000J-6M	5.7 m		
1766	EMCD-3000J-8M	7.7 m		

Accessories

Order by Code No.

E3000-PEX4

Control panel extension cord (4 m)



Code No.	8407	Model	E3000-PEX4
Standard accessories	Assembled product (cord length: 4 m) Mounting screw: 4 pcs. / Flange nut: 4 pcs.		

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

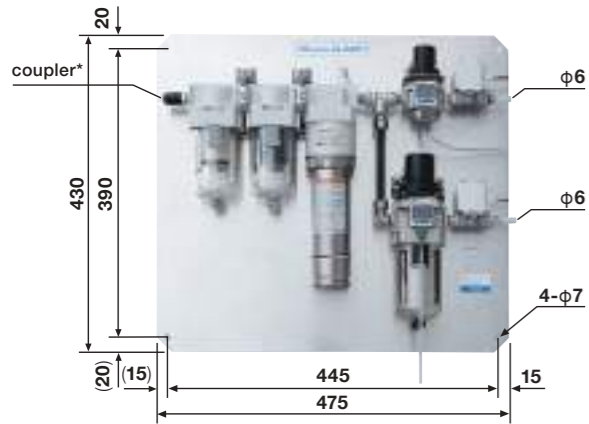


Air line kit

Order by Code No.

AL-A0611

Filtration: 0.01 μm



Code No.	1548	Model	AL-A0611
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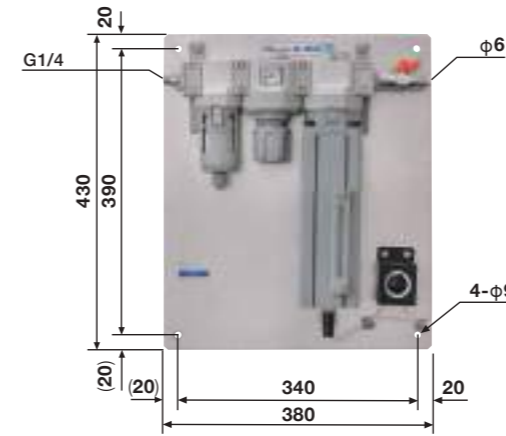
- Air piping
Inlet: Coupler (Model: KK13P-02M made by SMC Corporation)
Outlet: φ6.0 mm × 2 parts
- Net weight: 8.2 kg

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-M1201BL

Filtration: 0.3 μm



Code No.	4501	Model	AL-M1201BL
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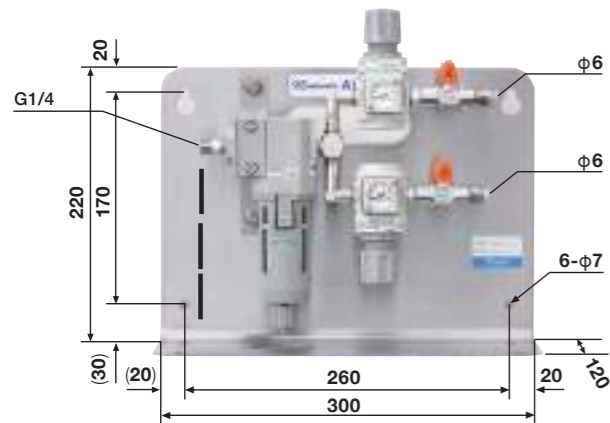
- Air piping
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm
- Net weight: 5.2 kg

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-A1205

Filtration: 0.3 μm



Code No.	4505	Model	AL-A1205
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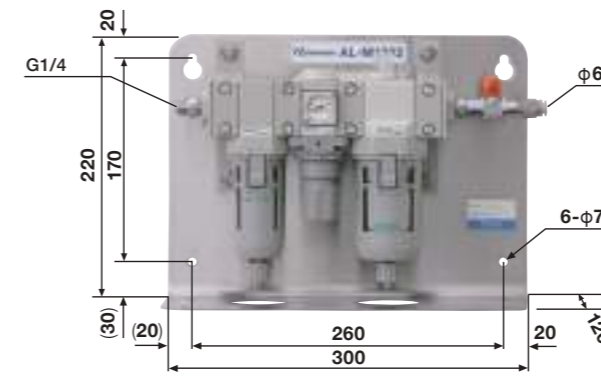
- Air piping
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm × 2 parts
- Net weight: 2.4 kg

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-M1202

Filtration: 0.3 μm



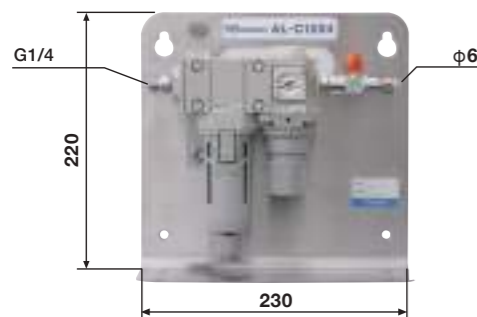
Code No.	4502	Model	AL-M1202
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- Air piping
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm
- Net weight: 2.8 kg

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-C1204

Filtration: 0.3 μm



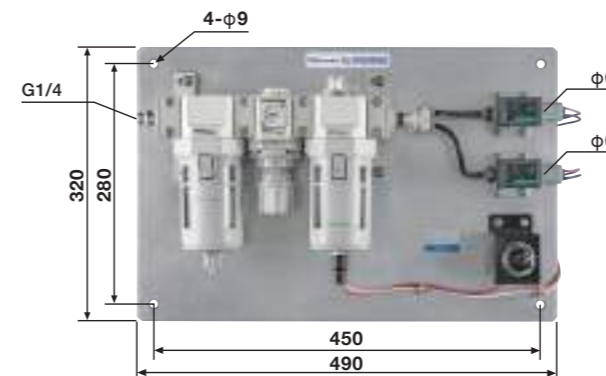
Code No.	4504	Model	AL-C1204
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- Air piping
Inlet: G1/4 male thread for connection hose
Outlet: φ6.0 mm
- Net weight: 1.9 kg

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-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

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

Collet

Order by Code No.

CHA Group		Fit nuts: CHN-A, CHN-AA, CHN-CTA, CHN-3A		
Code No.	Model	I.D. (mm)	Compatible model	
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		
		φ0.5, φ0.6, φ0.7, φ0.8, φ0.9		
914 □□	CHA-□□	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				
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	
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		
		φ0.5, φ0.6, φ0.7, φ0.8, φ0.9		
915 □□	CHK-□□	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		
		φ0.8, φ0.9		
905 □□	CHS-□□	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				
	Code No.	Model	I.D. (mm)	Compatible model
<p>*CH16-10.0 Length 24.5</p>	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				
	Code No.	Model	I.D. (mm)	Compatible model
<p>*CH16OH-9.0, 10.0 Length 24.5</p>	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 QC3-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

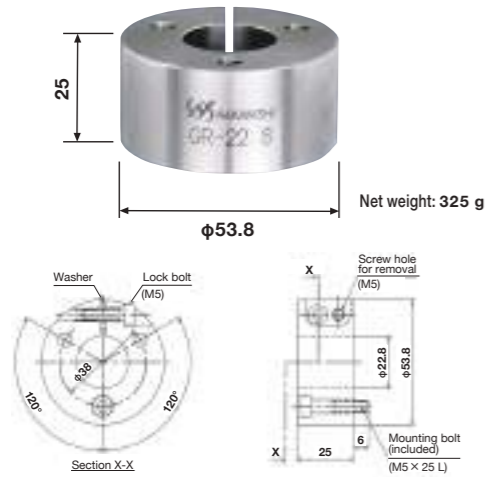
HES

TURBINES

ACCESSORIES

Grip ring

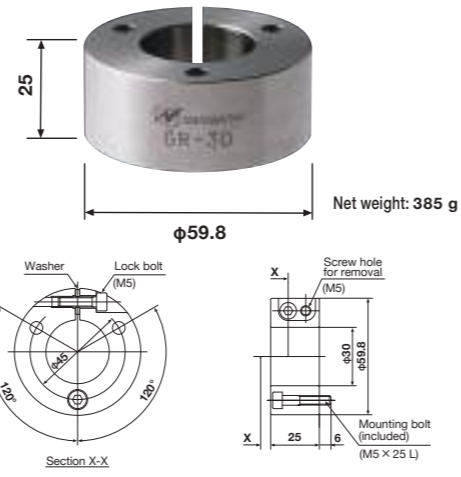
GR-22.8



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

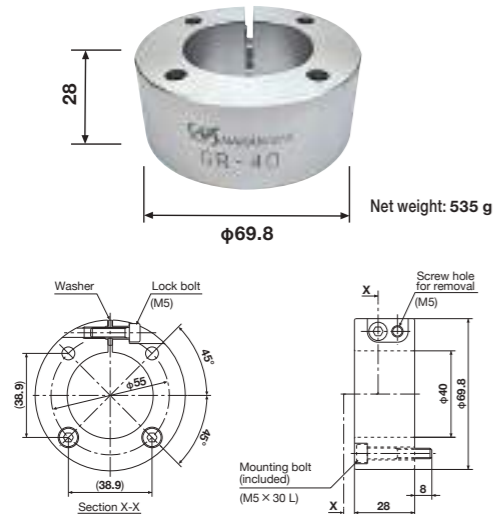
*GR-22.8 cannot be used with NR-311.

GR-30



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

GR-40



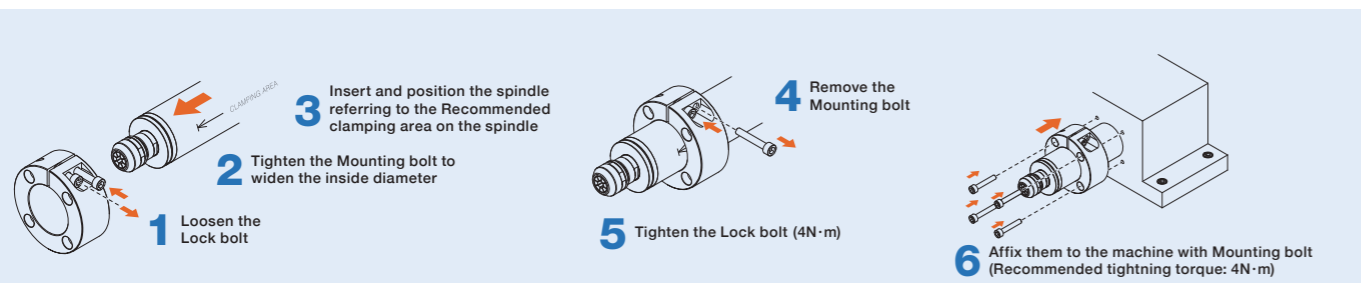
Code No.	1886	Model	GR-40
Standard accessories	Mounting bolt (M5 × 30 L): 4 pcs.		
Compatible model	φ40 mm Spindle		

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 (φ22 × 10 mm)	BM-322FL · BM-322FR

Bush

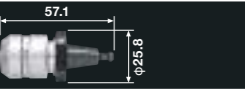

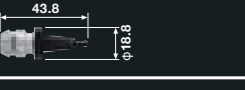
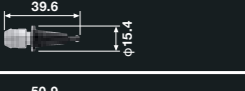

Bushings to allow smaller diameter spindles to be mounted in larger diameter holders

Bush	Code No.	Model	Description / Dimensions (I.D. × O.D. × L)	Compatible model
	1887	RB-19.05 × 25.4 × 36 L	φ25.4 Bush (φ19.05 × φ25.4 × 36 mm)	BM-319 · BM-319F · BMF-319 · BMJ-319 MSS-1902R / RA · MSS-1908R / RA MSS-1930R / RA
	1877	RB-20 × 22	φ22 Bush (φ20 × φ22 × 40 mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1876	RB-20 × 22.8	φ22.8 Bush (φ20 × φ22.8 × 40 mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1875	RB-20 × 23	φ23 Bush (φ20 × φ23 × 40 mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1878	RB-20 × 25	φ25 Bush (φ20 × φ25 × 40 mm)	BM-320 · BMF-320 · BMJ-320 · EM20-S6000 MSS-2002R / RA · MSS-2008R / RA MSS-2030R / RA
	1879	RB-20 × 25.4	φ25.4 Bush (φ20 × φ25.4 × 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	φ25 Bush (φ22 × φ25 × 33.5 mm)	BM-322 · BM-322FL · BM-322FR BM-322FS · BMF-322 · BMJ-322
	1884	RB-22 × 25.4 × 34 L	φ25.4 Bush (φ22 × φ25.4 × 33.5 mm)	BM-322 · BM-322FL · BM-322FR BM-322FS · BMF-322 · BMJ-322
	1872	RBS-22.8 × 25	φ25 Bush (φ22.8 × φ25 × 25 mm)	AMH-301 · NR-303 · NR-311 · NR-2351 RA-200 · RAS-101
	1871	RB-22.8 × 25	φ25 Bush (φ22.8 × φ25 × 44 mm)	RA-100
	1874	RBS-22.8 × 25.4	φ25.4 Bush (φ22.8 × φ25.4 × 25 mm)	AMH-301 · NR-303 · NR-311 · NR-2351 RA-200 · RAS-101
	1873	RB-22.8 × 25.4	φ25.4 Bush (φ22.8 × φ25.4 × 44 mm)	RA-100
	1880	RB-30 × 32	φ32 Bush (φ30 × φ32 × 45 mm)	NR-3060 · NR-3060S · NR-403E
	1881	RB-30 × 36	φ36 Bush (φ30 × φ36 × 45 mm)	NR-3060 · NR-3060S · NR-403E

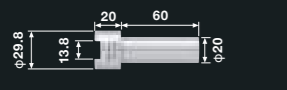
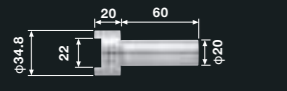
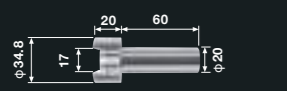
Adjuster bolt

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

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	NR4040-AQC · NRR4040-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	

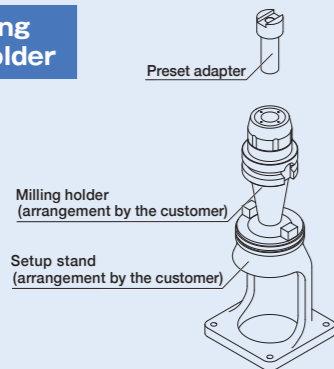
Preset adapter

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

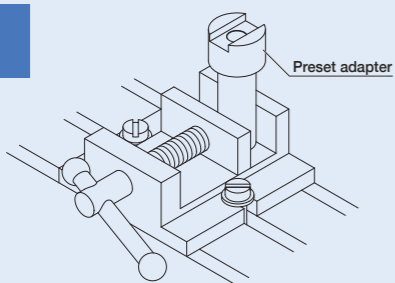
Set-up outside machines

1

In case using a milling holder



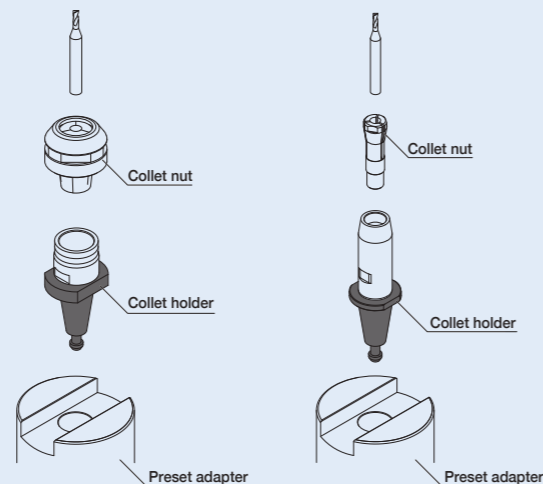
In case using a vice



2

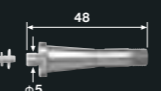
For QC3-K/A
QC5-16/K

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)	Metal saw arbor : for ϕd (I.D.) × $\phi 30$ mm or less (O.D.) Run-out accuracy: within 0.02 mm	RA-100 · RA-151E
	1077	KCH-02 (6.0)		
	2147	KCH-02 (8.0)		
	2148	KCH-03 (5.0)	Metal saw arbor : for ϕd (I.D.) × $\phi 30$ mm or less (O.D.) Run-out accuracy: within 0.02 mm	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
	2130	KCH-03 (6.0)		
	2149	KCH-03 (8.0)		

Grindstone arbor	Code No.	Model	Description / Specifications	Compatible model
	1029	AGM-01	Grindstone arbor Run-out accuracy: within 0.02 mm Grindstone I.D. $\phi 5.0$ mm	AMH-301 · NR-601
	2131	AGM-03	Grindstone arbor Run-out accuracy: within 0.02 mm Grindstone I.D. $\phi 5.0$ mm	EM30-S6000 · EMA-3020K · EMR-3008K EMS-3060K · MSS-25 · MSST-23 · NR-303 · NR-311 NR-403E · 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 $\phi 19.05$ (I.D.) × $\phi 40$ (O.D.) mm × 7 (width) mm	EM30-S6000 · EMR-3008K · EMS-3060K NR-403E · NR-453E · NR-2351 · NR-3060 · NR-3060S NRF-3060S · PMS-3020K
	2143	NGF2-19	Grindstone flange Available grindstone dimension $\phi 19.05$ (I.D.) × $\phi 40$ (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.

E4000

E3000

E2000

iSpeed3

Air-Speed

HES

TURBINES

ACCESSORIES

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)

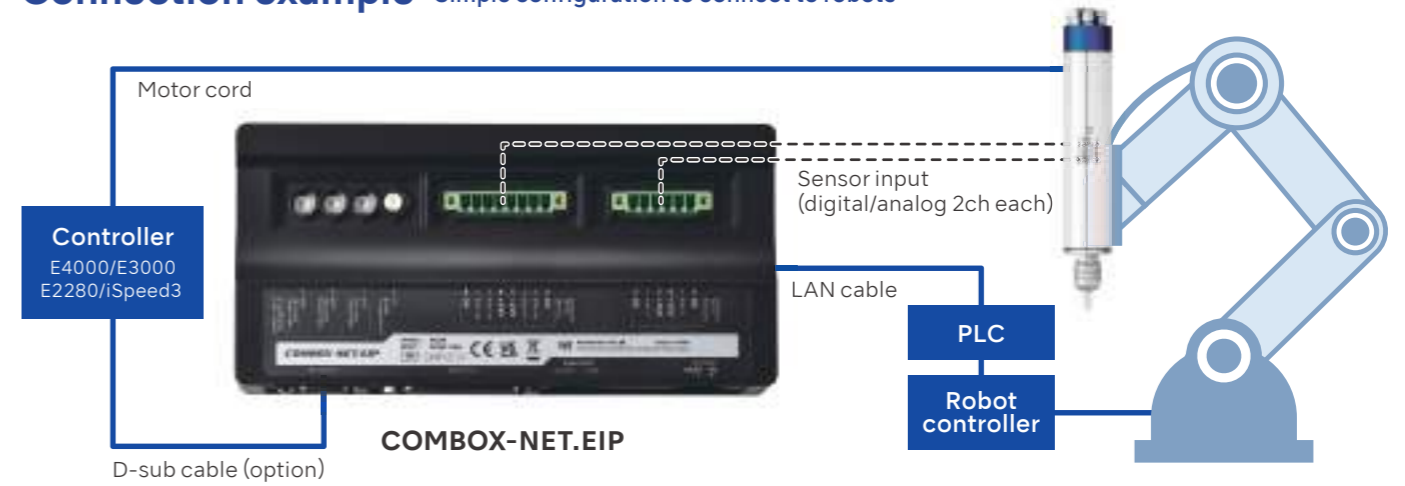
Previous
[I/O related device is required]



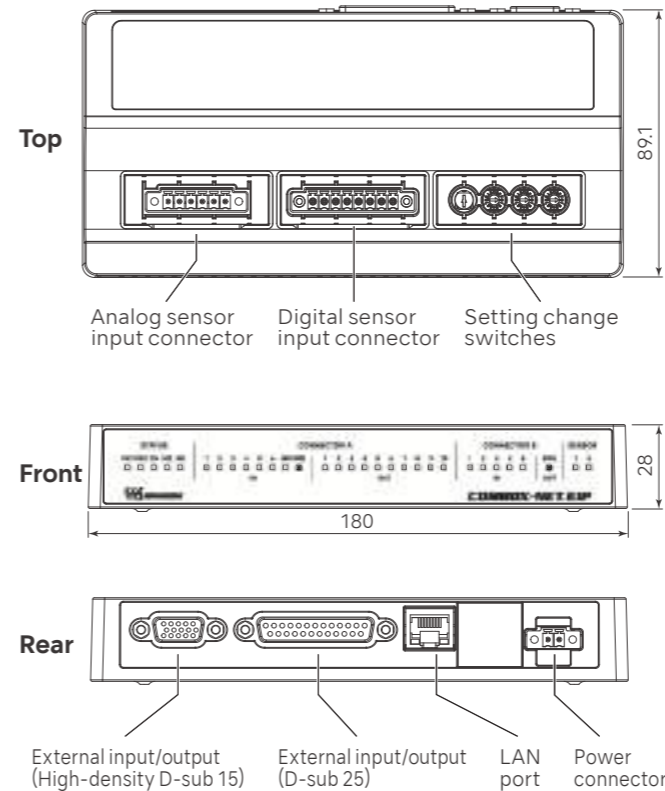
Using COMBOX-NET.EIP
[No I/O related device is required]



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.