



SERIES

E 3 0 0 0

Ultra-high-Speed & Super-Precision

De Facto

E3000 Series has become the largest product lines of electric motor spindle with the decades of effort to respond to the customer's requests from all over the world.

✓ Ø30mm Spindle

- Max. power 350w
- Max. rpm 80,000min⁻¹

✓ The largest product lines

- 26 types of spindles are available.

✓ Spindle accuracy within 1 μm

- Optimum for high-precision machining
- Longer tool life

✓ Ceramic Bearing

- Longer bearing life
- Higher rigidity for heavy cutting

✓ Brushless motor

- Maintenance free
- Longer product life thanks to no dust from carbon brushes





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Standard angle head

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Open / close by air cylinder

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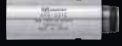
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Spindle & Motor $\varnothing 25$ Specifications (Modular type)

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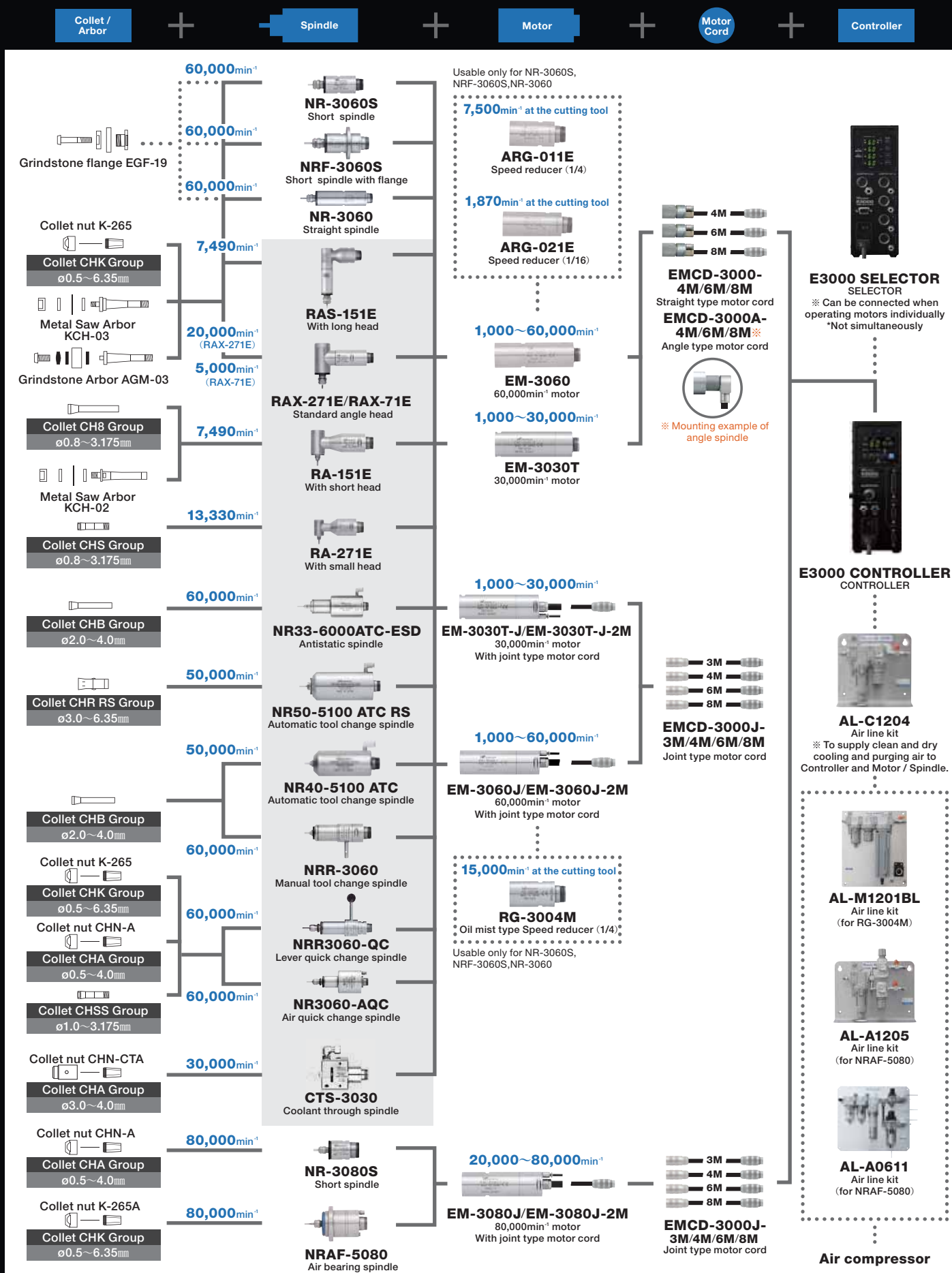
Motor cord

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System Chart

Modular type $\varnothing 30\text{mm}$ 

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EM-3080J

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25

NR-2551

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EM25N-5000J

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Spindle
Guide

CHK



NR-3060S



NRF-3060S



EM-3060J

EM-3030T-J



EM-3060

EM-3030T

E3000 SERIES

Shown In Actual Size

Spindle (Modular type)

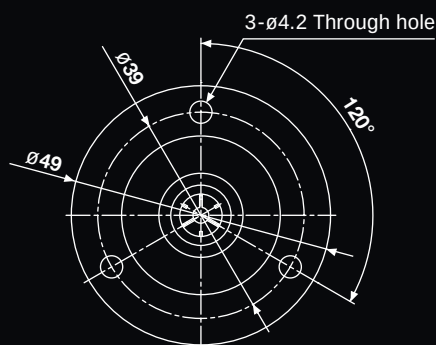
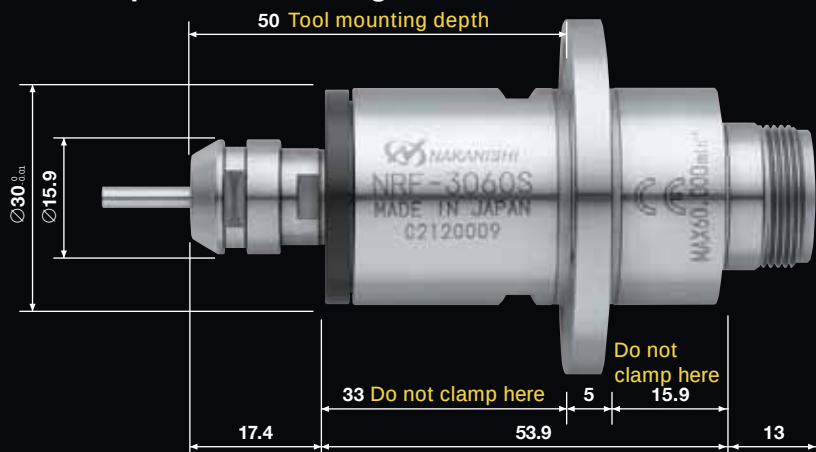
NR-3060S

Short spindle

O.D. $\varnothing$ 30mm

NRF-3060S

Short spindle with flange

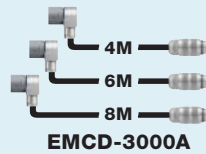
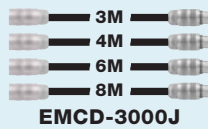
O.D. $\varnothing$ 30mm

※ See p.46

NR-3060

Straight spindle

O.D. $\varnothing$ 30mm



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

NR-3060S



Code No.	7859	Model	NR-3060S
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O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
ø30 _{mm}	60,000 min ⁻¹	Within 1 _μ m	CHK Group (ø0.5 ~ ø6.35 _{mm})	260g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. • (22×27) : 1pc.			
Options	Collet (CHK Group) : ø0.5~ø6.35 _{mm} p.51			
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30 _{mm} (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0 _{mm}			
	Grindstone Flange (EGF-19) : applicable grindstone I.D. ø19.05×O.D.ø40×7 _{mm}			

※ Collet is sold separately.

NRF-3060S



Code No.	7795	Model	NRF-3060S
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O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
ø30 _{mm}	60,000 min ⁻¹	Within 1 _μ m	CHK Group (ø0.5 ~ ø6.35 _{mm})	285g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. • (22×27) : 1pc. Hexagon Socket Head Screw (M4×12) : 3pcs.			
Options	Collet (CHK Group) : ø0.5~ø6.35 _{mm} p.51			
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30 _{mm} (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0 _{mm}			
	Grindstone Flange (EGF-19) : applicable grindstone I.D. ø19.05×O.D.ø40×7 _{mm}			

※ Collet is sold separately.

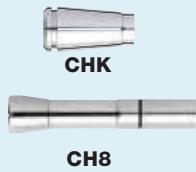
NR-3060



Code No.	7875	Model	NR-3060
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O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
ø30 _{mm}	60,000 min ⁻¹	Within 1 _μ m	CHK Group (ø0.5 ~ ø6.35 _{mm})	420g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. • (22×27) : 1pc.			
Options	Collet (CHK Group) : ø0.5~ø6.35 _{mm} p.51			
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30 _{mm} (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0 _{mm}			
	Grindstone Flange (EGF-19) : applicable grindstone I.D. ø19.05×O.D.ø40×7 _{mm}			

※ Collet is sold separately.

Spindle
Guide

E3000 SERIES

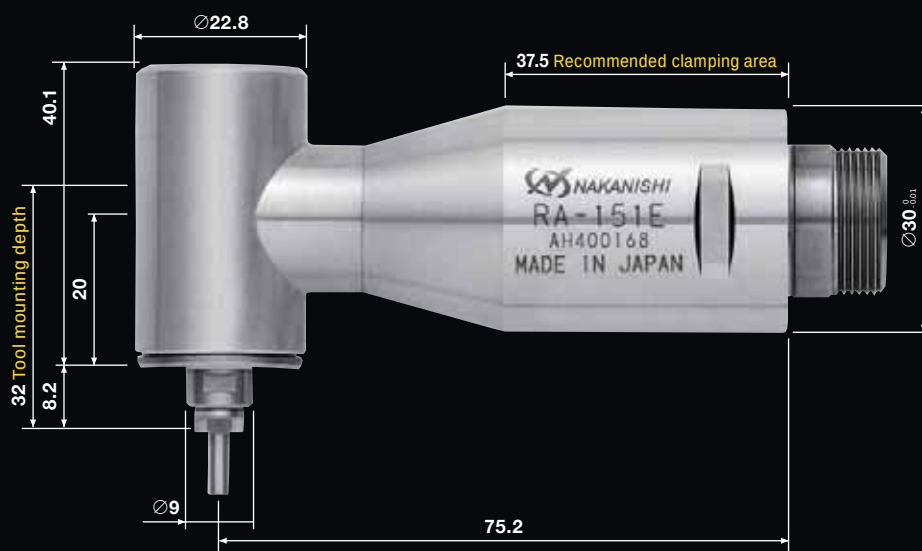
Shown In Actual Size

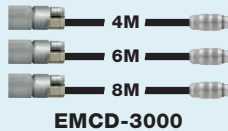
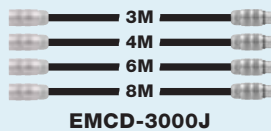
Spindle (Modular type)

RAX-271E / RAX-71E

Angle spindle
Standard angle head

RA-151E

Angle spindle
With short head



E3000 CONTROLLER



E3000 SELECTOR

Specifications

**DXF
data**

 DXF files are available
on our website

Order by Code No.

RAX-271E / RAX-71E



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

[Model] RAX-271E	O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
	Ø30mm	20,000min ⁻¹	$\frac{1}{1.5}$	30,000min ⁻¹
Spindle Accuracy	Collet	Weight		
Within 2μm	CHK Group (ø0.5 ~ ø6.35mm)	580g		
[Model] RAX-71E	O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
	Ø30mm	5,000min ⁻¹	$\frac{1}{6}$	30,000min ⁻¹
Spindle Accuracy	Collet	Weight		
Within 2μm	CHK Group (ø0.5 ~ ø6.35mm)	580g		
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs.・(22×27) : 1pc.			
	Grease for speed reducer (10mℓ) / Grease nipple : 1pc.			
Options	Collet (CHK Group) : ø0.5~ø6.35mm p.51			
	Metal Saw Arbor (KCH-03) : ød (I.D.)×under ø30mm (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0mm			

※ Collet is sold separately.



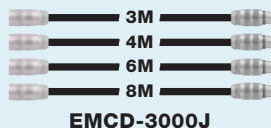
Put grease every 70 to 100 hours to extend the life of the speed reducer.
Grease-up prevents friction of the internal gears and degradation of the existing grease in the reducer.

RA-151E



Code No.	1505	Model	RA-151E
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O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm	Collet	Weight
ø30 _{mm}	7,490 min ⁻¹	$\frac{1}{2.67}$	20,000 min ⁻¹	CH8 Group (ø0.8 ~ ø3.175mm)	385g
Standard Accessories	Collet : ø3.0mm (CH8-3.0) / Wrench (7×5.5) • (8×5) • (22×27) : 1pc. each				
Options	Collet (CH8 Group) : ø0.8~ø3.175mm p.51 Metal Saw Arbor (KCH-02) : ød (I.D.) × under ø30mm (O.D.)				



E3000 CONTROLLER

E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

RAS-151E



Code No.

7840

Model

RAS-151E

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
Ø30 _{mm}	7,490 min ⁻¹	$\frac{1}{2.67}$	20,000 min ⁻¹
Spindle Accuracy	Collet	Weight	
Within 2 _μ m	CHK Group (Ø0.5 ~ Ø6.35 _{mm})	413g	
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. • (22×27) : 1pc.		
Options	Collet (CHK Group) : Ø0.5~Ø6.35 _{mm} p.51 Metal Saw Arbor (KCH-03) : Ød (I.D.) × under Ø30 _{mm} (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. Ø5.0 _{mm}		

※ Collet is sold separately.

RA-271E



Code No.

1506

Model

RA-271E

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm	Collet	Weight
Ø30 _{mm}	13,330 min ⁻¹	$\frac{1}{1.5}$	20,000 min ⁻¹	CHS Group (Ø0.8 ~ Ø3.175 _{mm})	240g
Standard Accessories	Collet : Ø3.0 _{mm} (CHS-3.0) / Wrench (7×5.1) • (8×5) • (22×27) : 1pc. each				
Options	Collet (CHS Group) : Ø0.8~Ø3.175 _{mm} p.51				

Spindle
Guide

E3000 SERIES

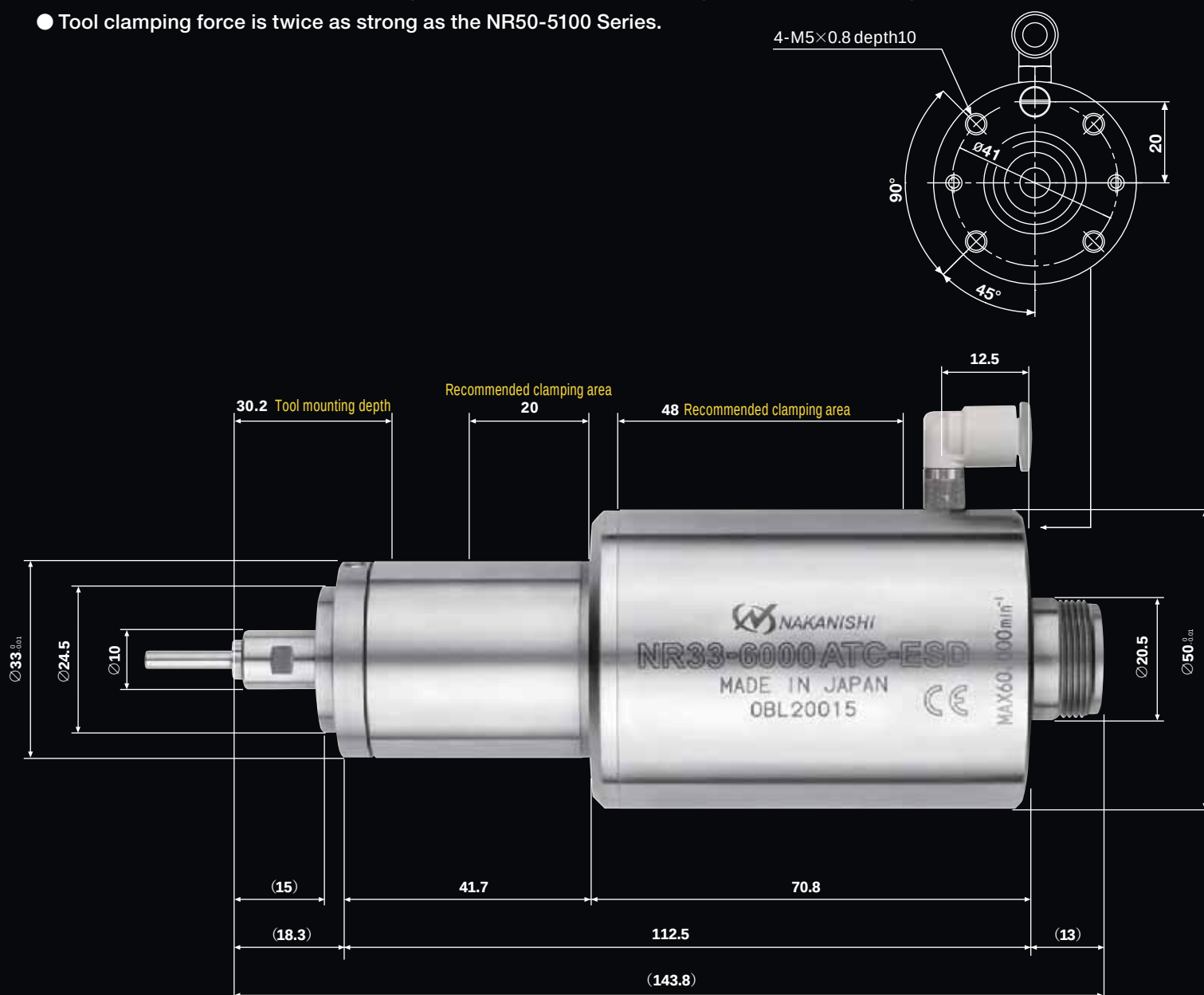
Shown In Actual Size

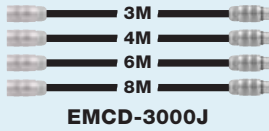
Spindle (Modular type)

NR33-6000ATC-ESD

Antistatic spindle

- Prevents damage to electronic components on the PCB due to static electricity conducted during the machining process.
- The $\phi 10 \times 15L$ extended spindle nose length helps to avoid interference with components mounted on the PCB.
- Pneumatic tool clamp and unclamp system allows for quick and easy automatic tool change.
- Tool clamping force is twice as strong as the NR50-5100 Series.

O.D. $\phi 33_{-0.01}^{0}$ 



EMCD-3000J



EMCD-3000



E3000 CONTROLLER



E3000 SELECTOR

Specifications

**DXF
data**

 DXF files are available
on our website

Order by Code No.

NR33-6000ATC-ESD

Code No.

7788

Model

NR33-6000ATC-ESD

O.D.	Allowable rotation speed	Air for collet opening	Spindle Accuracy	Collet	Weight
ø33 _{mm} / ø50 _{mm}	60,000 min ⁻¹ (Motor rotation speed)	0.55~0.6 MPa	Within 1 μm	CHB Group (ø3.175mm)	1,170 g
Standard Accessories	Collet : ø3.175mm (CHB-3.175) / Wrench (6.1×8) · (9×11) : 1pc. each / Bar wrench (K-236) : 1pc.				
	Air hose with filter (K-251) : ø6mm×2m				
Options	Collet (CHB Group) : ø2.0, ø3.0, ø3.175, ø3.5, ø4.0mm p.51				

Spindle
Guide

CHR RS



NR50-5100 ATC RS



EM-3060J



EM-3060

E3000 SERIES

Shown In Actual Size

Spindle (Modular type)

NR50-5100 ATC RS

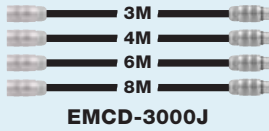
Automatic tool change spindle

O.D. $\varnothing$ 50mm

This spindle is recommended for the customers who use a big amount of cutting fluid.

"RS" stands for "Rubber Seal". This Rubber Seals added in the collet prevent coolant from going into the collet. In addition, the dust-proof cover which is bigger than NR50-5100 ATC prevents coolant from going into the spindle bearing.





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Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

NR50-5100 ATC RS



Code No.

7690

Model

NR50-5100 ATC RS

O.D.	Max. rpm	Air for collet opening	Spindle Accuracy	Collet	Weight
Ø50 _{mm}	50,000 _{min⁻¹}	0.55~0.6 MPa	Within 1 μm	CHR RS Group (Ø3.175mm)	1,370 g
Standard Accessories	Collet : Ø3.175mm (CHR-3.175RS) / Wrench (9×11) · (12×14) : 1pc. each / Bar wrench (K-236) : 1pc.				
	Air hose with filter (K-251) : Ø6mm×2m				
Options	Collet (CHR RS Group) : Ø3.0, Ø3.175, Ø4.0, Ø6.0, Ø6.35mm p.51				

Spindle
Guide

E3000 SERIES

Shown In Actual Size

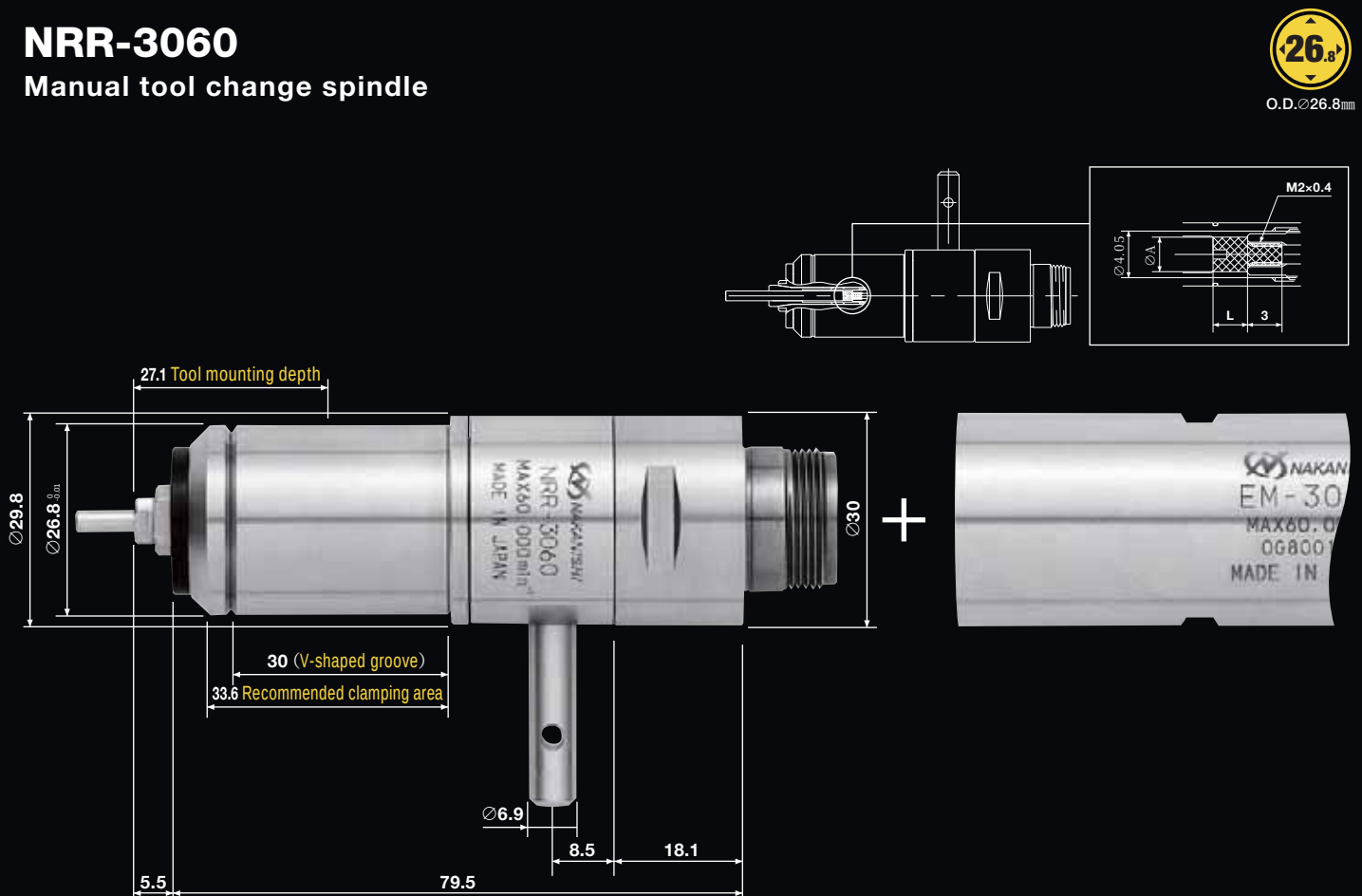
Spindle (Modular type)

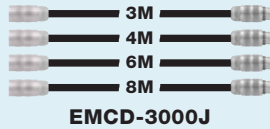
NR40-5100 ATC

Automatic tool
change spindle

NRR-3060

Manual tool change spindle





E3000 CONTROLLER

E3000 SELECTOR

Specifications

**DXF
data**

 DXF files are available
on our website

Order by Code No.

NR40-5100 ATC



Code No.

1582

Model

NR40-5100 ATC

O.D.	Max. rpm	Air for collet opening	Spindle Accuracy	Collet	Weight
Ø40 _{mm}	50,000 min ⁻¹	0.55~0.6 MPa	Within 2 μm	CHB Group (Ø3.175 _{mm})	740g
Standard Accessories	Collet : Ø3.175 _{mm} (CHB-3.175) / Wrench (6.1×8)・(9×11) : 1pc. each / Bar wrench (K-236) : 1pc. Air hose with filter (K-251) : Ø6 _{mm} ×2m				
Options	Collet (CHB Group) : Ø2.0, Ø3.0, Ø3.175, Ø4.0 _{mm} p.51				

NRR-3060



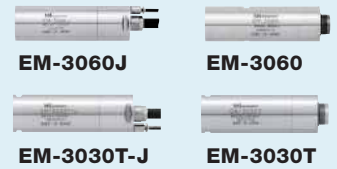
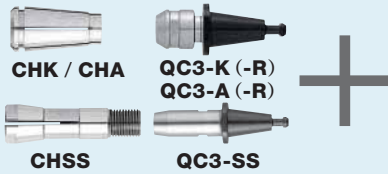
Code No.

1836

Model

NRR-3060

O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
Ø26.8 _{mm} Recommended clamping area	60,000 min ⁻¹	Within 1 μm	CHB Group (Ø3.175 _{mm})	350g
Standard Accessories	Collet : Ø3.175 _{mm} (CHB-3.175) / Wrench (6.1×8) : 2pcs・(22×27) : 1pc			
Options	Collet (CHB Group) : Ø2.0, Ø3.0, Ø3.175, Ø4.0 _{mm} p.51			

Spindle
Guide

E3000 SERIES

Shown In Actual Size

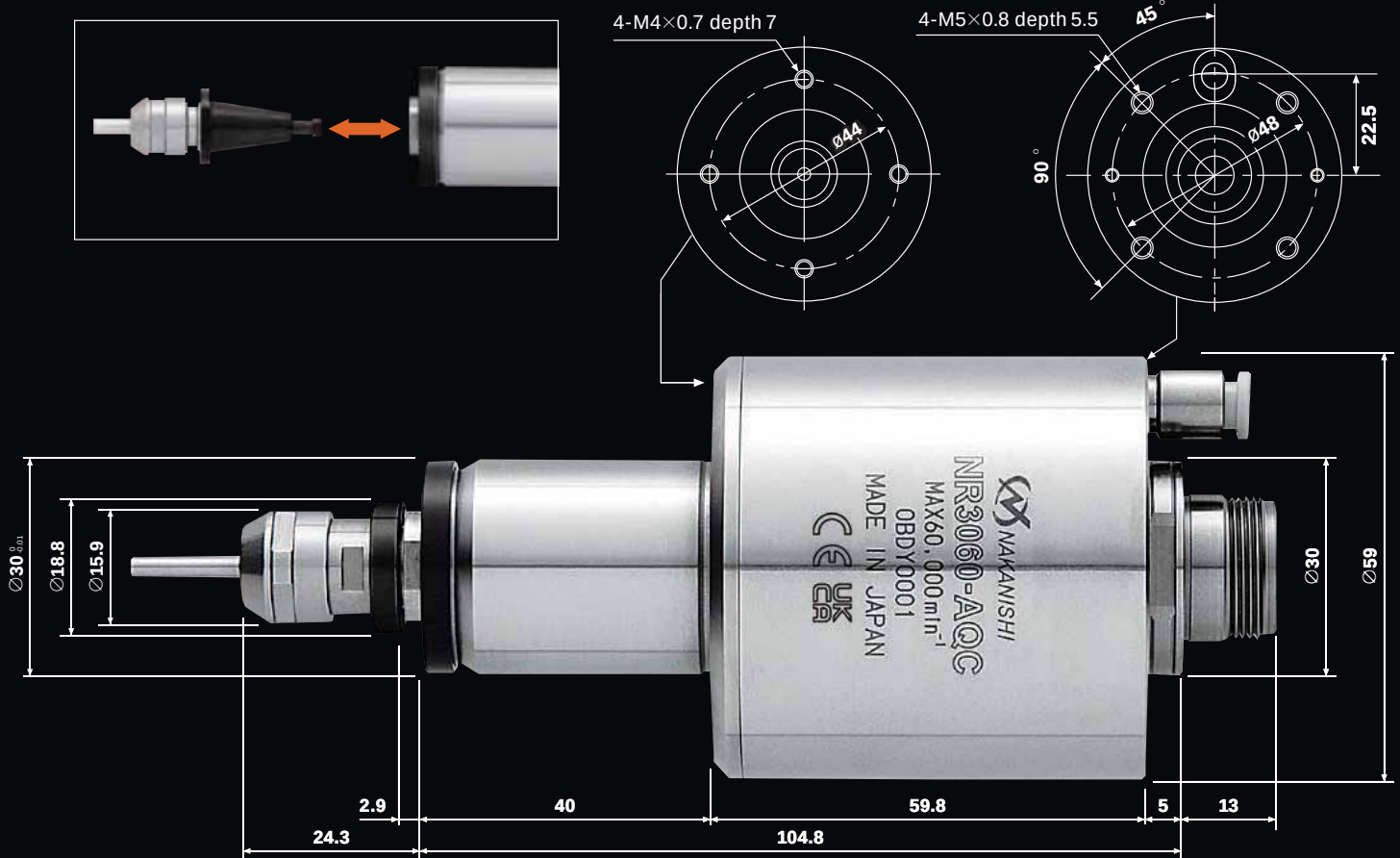
Spindle (Modular type)

NR3060-AQC

Air quick change spindle

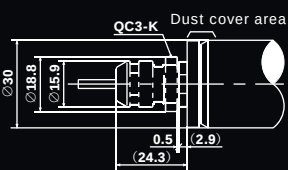
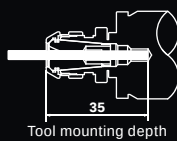


- Quick and easy collet holder change with air chucking mechanism.
- Enhancing productivity by enabling external tool set-up.
- 3 types of collet holders are available. (CHK $\phi 0.5 \sim 6.35\text{mm}$, CHA $\phi 0.5 \sim 4.0\text{mm}$, CHSS $\phi 1.0 \sim 3.175\text{mm}$)

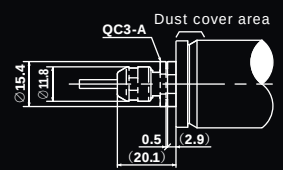
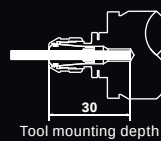


Outside view of the tip of the spindle

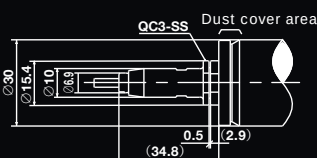
QC3-K
(Collet holder for
collet CHK)
When mounting

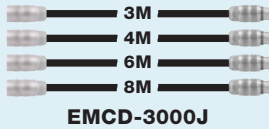


QC3-A
(Collet holder for
collet CHA)
When mounting



QC3-SS
(Collet holder for
collet CHSS)
When mounting





EMCD-3000J



EMCD-3000



E3000 CONTROLLER



E3000 SELECTOR

Specifications

**DXF
data**

 DXF files are available
on our website

Order by Code No.

NR3060-AQC

Code No.

9220

Model

NR3060-AQC

O.D.	Max. rpm	Air pressure of collet open/close	Spindle Accuracy	Collet holders	Weight
ø30mm	60,000 min ⁻¹	0.6MPa	Within 1μm	QC3-K / QC3-K-R (for Collet CHK) QC3-A / QC3-A-R (for Collet CHA) QC3-SS (for Collet CHSS)	1,230g

Standard Accessories

Wrench (22×27) : 1pc. / Air hose with filter (K-251) : ø6mm × 2m 1pc.

Parts (Optional)

Collet		Collet holder (Collet nut included)		Wrench	
You can choose the I.D. size (The following is an example of ø3.0mm.)					

CHK I.D. ø0.5mm~6.35mm p.51	Code No.	915 3 0	9210	9223	2026	
	Model	CHK- 3 . 0 (I.D. ø3.0mm)	QC3-K (for Collet CHK)	QC3-K-R (for Collet CHK)	Wrench 12 × 14 (2pcs.)	

CHA I.D. ø0.5mm~4.0mm p.51	Code No.	914 3 0	9209	9222	2012	2054
	Model	CHA- 3 . 0 (I.D. ø3.0mm)	QC3-A (for Collet CHA)	QC3-A-R (for Collet CHA)	Wrench 8 × 5 (1pc.)	Wrench 9 × 11 (1pc.)

Collet		Collet holder		Wrench	
You can choose the I.D. size The following is an example of ø3.0mm.					

CHSS I.D. ø1.0mm~3.175mm p.51	Code No.	930 3 0	7794	2069	2054	
	Model	CHSS- 3 . 0 (I.D. ø3.0mm)	QC3-SS (for Collet CHSS)	Wrench 6.1 × 8 (1pc.)	Wrench 9 × 11 (1pc.)	

**Preset adapter
(For QC3 Collet holders)**

 ※Holding section size is ø20.
 ※QC3-K-R/QC3-A-R cannot be used
to Preset adapter.

Code No.

9211

Model

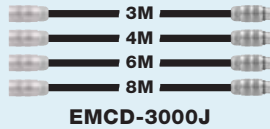
QC3-ADP
【Use below Wrenches when using Preset adapter】

CHK collet : 12 × 14 Wrench (1pc.)

CHA collet : 9 × 11 Wrench (1pc.)

CHSS collet : 6.1 × 8 Wrench (1pc.)

See p.53



EMCD-3000J



EMCD-3000



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

NRR3060-QC

Code No.

9208

Model

NRR3060-QC

O.D.	Max. rpm	Lever operating angle	Spindle Accuracy	Collet holders	Weight
$\varnothing 30\text{mm}$ Recommended clamping area	60,000 min ⁻¹	90 °	Within 1 μm	QC3-K / QC3-K-R (for Collet CHK) QC3-A / QC3-A-R (for Collet CHA) QC3-SS (for Collet CHSS)	570g
Standard Accessories Wrench (22×27) : 1pc.					

Parts (Optional)

Collet		Collet holder (Collet nut included)		Wrench	
You can choose the I.D. size (The following is an example of $\varnothing 3.0\text{mm}$.)					

CHK I.D. $\varnothing 0.5\text{mm} \sim 6.35\text{mm}$ p.51	Code No.	915 3 0	9210	9223	2026	
	Model	CHK- 3 . 0 (I.D. $\varnothing 3.0\text{mm}$)	QC3-K (for Collet CHK)	QC3-K-R (for Collet CHK)	Wrench 12 × 14 (2pcs.)	
CHA I.D. $\varnothing 0.5\text{mm} \sim 4.0\text{mm}$ p.51	Code No.	914 3 0	9209	9222	2012	2054
	Model	CHA- 3 . 0 (I.D. $\varnothing 3.0\text{mm}$)	QC3-A (for Collet CHA)	QC3-A-R (for Collet CHA)	Wrench 8 × 5 (1pc.)	Wrench 9 × 11 (1pc.)

Collet		Collet holder		Wrench	
You can choose the I.D. size The following is an example of $\varnothing 3.0\text{mm}$.					

CHSS I.D. $\varnothing 1.0\text{mm} \sim 3.175\text{mm}$ p.51	Code No.	930 3 0	7794	2069	2054
	Model	CHSS- 3 . 0 (I.D. $\varnothing 3.0\text{mm}$)	QC3-SS (for Collet CHSS)	Wrench 6.1 × 8 (1pc.)	Wrench 9 × 11 (1pc.)

Preset adapter (For QC3 Collet holders)



※Holding section size is $\varnothing 20$.
 ※QC3-K-R/QC3-A-R cannot be used to
 to Preset adapter.

Code No.

9211

Model

QC3-ADP
【Use below Wrenches when using Preset adapter】

CHK collet : 12 × 14 Wrench (1pc.)

CHA collet : 9 × 11 Wrench (1pc.)

CHSS collet : 6.1 × 8 Wrench (1pc.)

See p.53

Spindle
Guide

CHN-CTA



CHA



CTS-3030



EM-3030T-J



EM-3030T

E3000 SERIES

Shown In Actual Size

Spindle (Modular type)

CTS-3030

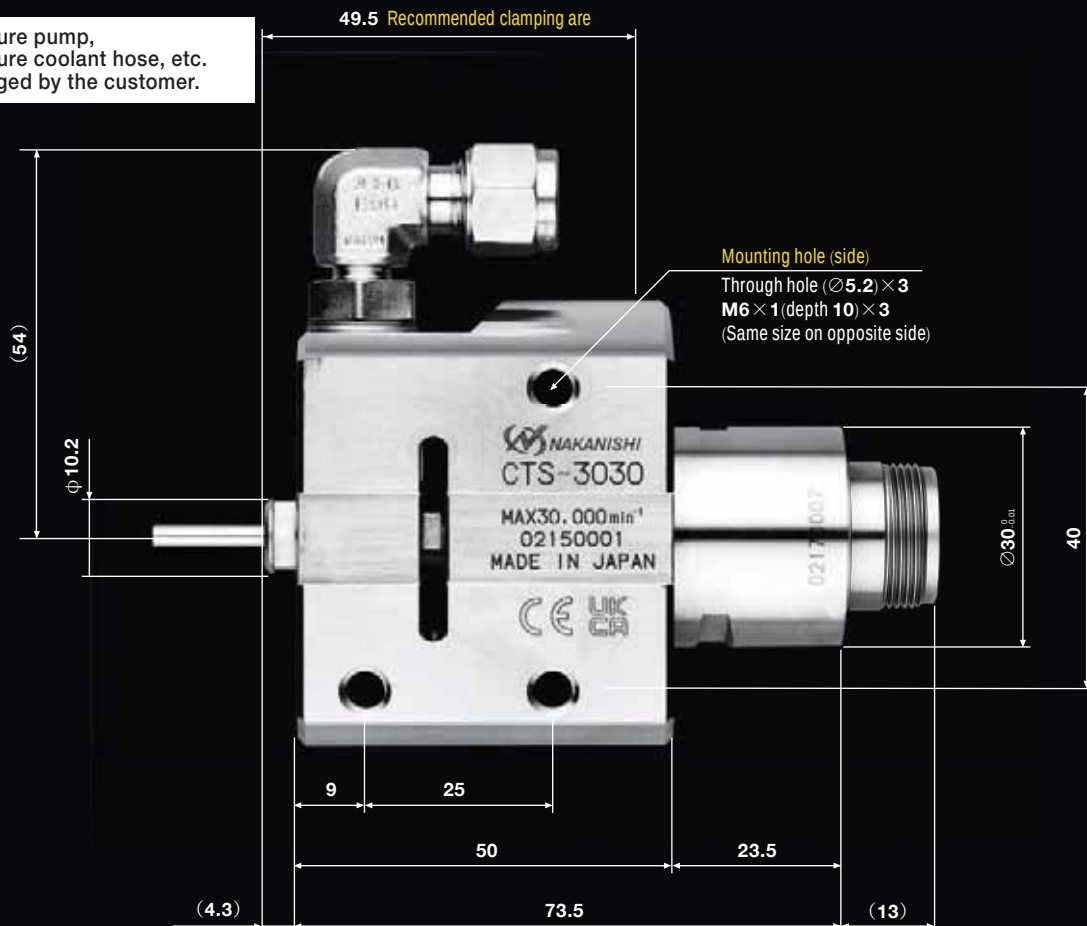
Coolant through spindle

O.D. $\varnothing 30\text{mm}$

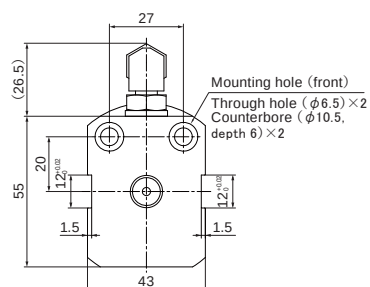
- A Spindle that uses an oil hole drill for deep hole drilling.
- To inject coolant from it's tool tip of the drill, there are several advantages, such as improved chip discharge, reduction drilling time, extended tool life, and high precision when performing.



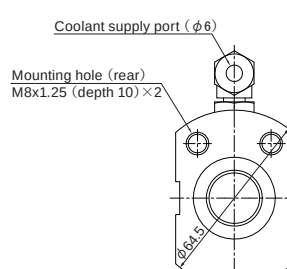
High-pressure pump,
High-pressure coolant hose, etc.
to be arranged by the customer.



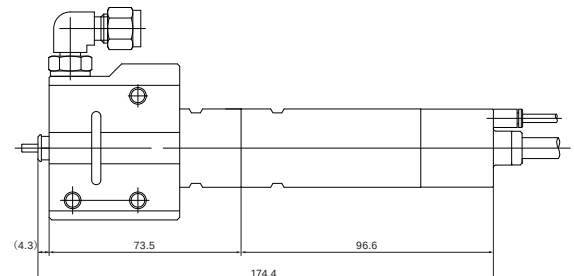
front

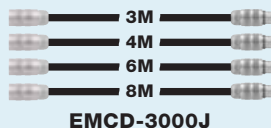


rear



With Motor : EM-3030T-J





E3000 CONTROLLER

E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

CTS-3030



Code No.

7797

Model

CTS-3030

O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
Ø30 _{mm}	30,000 min ⁻¹	Within 1 μm	CHA Group (Ø3.0, Ø3.175, Ø4.0mm)	885g
Standard Accessories	Wrench (8×5)・(9×11)・(22×27) : 1pc. each			
Options	Collet (CHA Group) : Ø3.0, Ø3.175, Ø4.0mm p.51			
	Collet nut (CHN-CTA) : 3.0, 3.175, 4.0mm p.52			

※ The Collet and the Collet nut are sold separately. Please match the collet and collet nut size.
 ※ High precision AA grade types are highly recommended.

パーツ (別売品)

Collet			+	Collet nut	
Ø3.0	Code No.	91494		7798	
	Model	CHA-3.0AA		CHN-CTA-3.0	
Ø3.175	Code No.	91496		7799	
	Model	CHA-3.175AA		CHN-CTA-3.175	
Ø4.0	Code No.	91495		7800	
	Model	CHA-4.0AA		CHN-CTA-4.0	

Speed Reducer (Modular type)

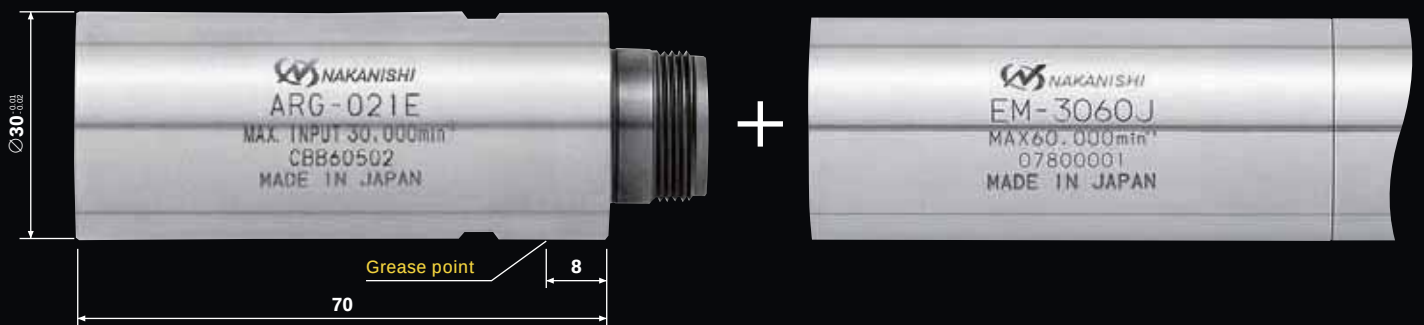
ARG-011E

Speed Reducer (1/4)



ARG-021E

Speed Reducer (1/16)



RG-3004M

Oil mist type Speed Reducer (1/4)



- Max. input speed 60,000min⁻¹ (standard type 30,000min⁻¹)
- Longer product life by oil mist lubrication
- No greasing is necessary
- Oil mist supply is necessary
- ※ Not recommended for dry machining.



Specifications

DXF data DXF files are available on our website

Order by Code No.

ARG-011E



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

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm	Weight
Ø30 _{mm}	7,500 min ⁻¹	$\frac{1}{4}$	30,000 min ⁻¹	242g

Standard Accessories Grease for reduction gear (10mℓ) / Grease nipple : 1pc.



Put grease every 70 to 100 hours to extend the life of the Speed reducer.
Grease-up prevents friction of the internal gears and degradation of the existing grease in the reducer.

ARG-021E



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

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm	Weight
Ø30 _{mm}	1,870 min ⁻¹	$\frac{1}{16}$	30,000 min ⁻¹	325g

Standard Accessories Grease for reduction gear (10mℓ) / Grease nipple : 1pc.

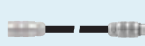


Put grease every 70 to 100 hours to extend the life of the Speed reducer.
Grease-up prevents friction of the internal gears and degradation of the existing grease in the reducer.

RG-3004M



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

Spindle	Speed reducer	Electric motor	Motor cord	Controller	
 Spindle	 RG-3004M	 EM-3060J	 EMCD-3000J	For oil mist lubrication	For dry cooling air supply
				 AL-M1201BL	 E3000 CONTROLLER  AL-C1204

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm	Weight
Ø30 _{mm}	15,000 min ⁻¹	$\frac{1}{4}$	60,000 min ⁻¹	240g

Spindle
Guide

E3000 SERIES

Shown In Actual Size

Spindle (Modular type)

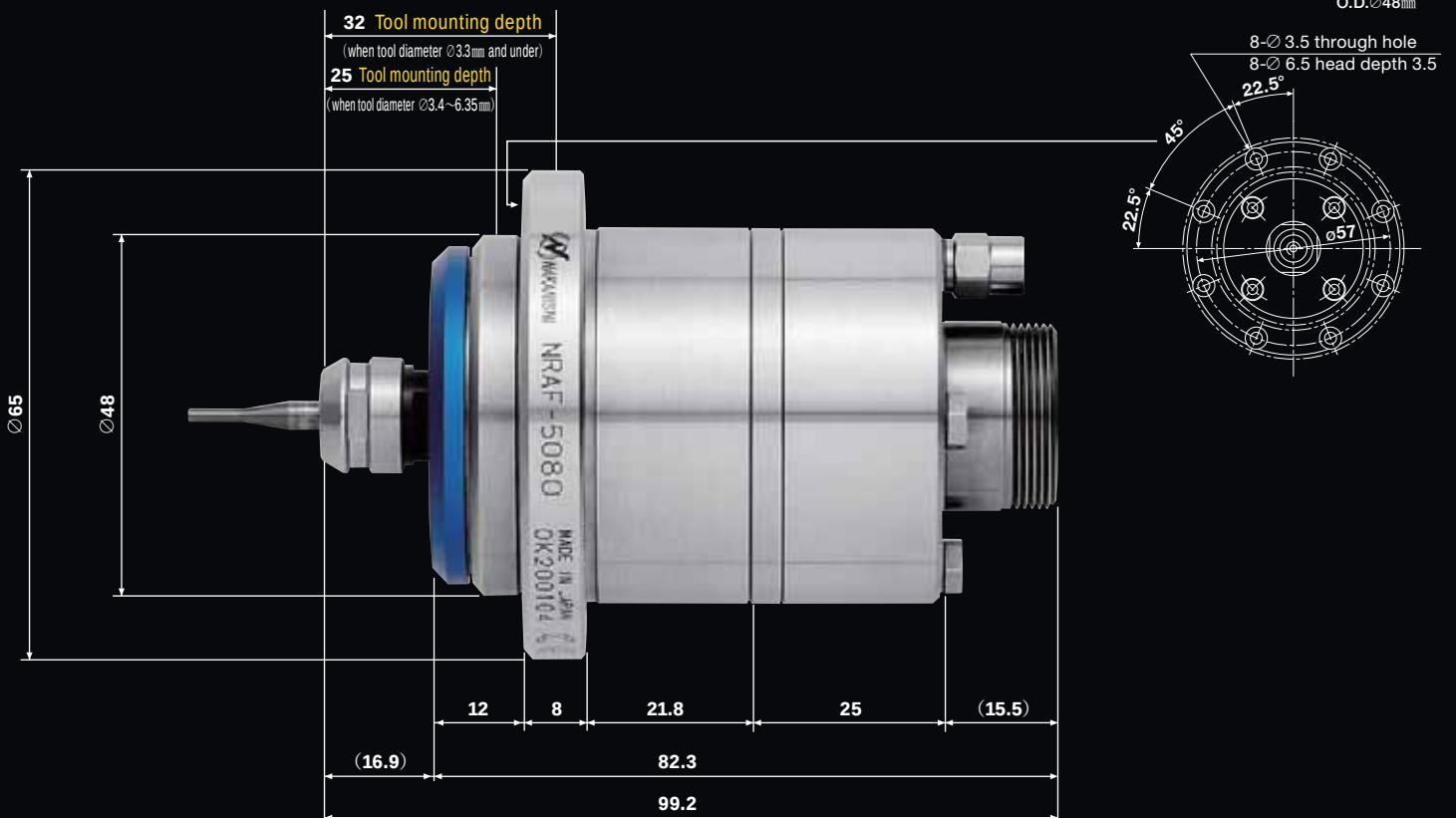
NR-3080S

Short spindle



NRAF-5080

Air bearing spindle





EM-3080J



EMCD-3000J



E3000 CONTROLLER



E3000 SELECTOR

Specifications

**DXF
data**

 DXF files are available
on our website

Order by Code No.

NR-3080S



Code No.

7876

Model

NR-3080S

O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
Ø30 _{mm}	80,000 min ⁻¹	Within 1 _μ m	CHA Group (Ø0.5 ~ Ø4.0 _{mm})	170g
Standard Accessories	Collet nut (CHN-A) / Wrench (22×27)・(8×5)・(9×11) : 1pc. each			
Options	Collet (CHA Group) : Ø0.5 ~ Ø4.0 _{mm} p.51			

※ Collet is sold separately.

NRAF-5080



Code No.

1782

Model

NRAF-5080

O.D.	Max. rpm	Appropriate bearing air pressure	Spindle Accuracy	Collet	Weight
Ø48 _{mm}	80,000 min ⁻¹	35Nℓ/min (0.5MPa)	Within 1 _μ m	CHK Group (Ø0.5 ~ Ø6.35 _{mm})	810g
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				
	Useable Max. diameter of grindstone : Ø8.0 _{mm} and under on Ø6.0 _{mm} shank				
	Hose diameter : Ø4 _{mm} , for bearing air inlet				
Standard Accessories	Collet : Ø3.0 _{mm} (CHK-3.0) / Collet nut (K-265A) / Wrench (12×14) : 2pcs.				
	Reducer : 1pc. / Inlet air hose (Ø4 _{mm} ×4m) : 1pc. / Bar wrench (K-236) : 1pc.				
Options	Collet (CHK Group) : Ø0.5 ~ Ø6.35 _{mm} p.51				

Motor

EM-3060

60,000min⁻¹ motor



O.D. ∅30mm



EM-3060J

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



O.D. ∅30mm



Cord length L=0.3m / 2m

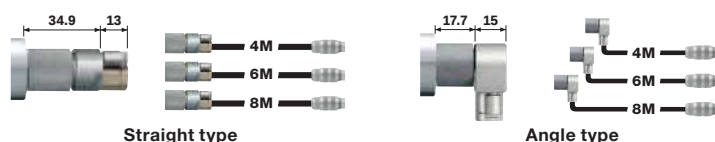
Specifications

DXF data DXF files are available on our website

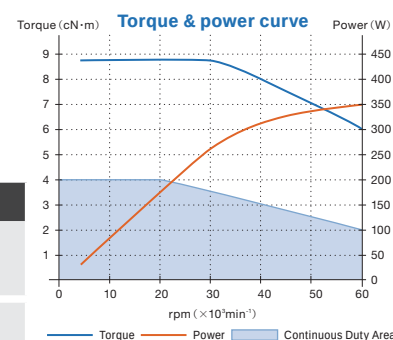
Order by Code No.

EM-3060

Code No.	1597	Model	EM-3060
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O.D.	Speed Range	Max. power	Weight
Ø30 _{mm}	1,000 ~ 60,000 _{min⁻¹}	350w	325g
Standard Accessories Wrench (22×27) : 1pc.			



EM-3060J

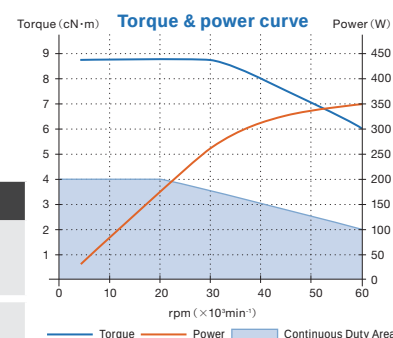


Length	0.3m	Code No.	1765	Model	EM-3060J
Length	2m	Code No.	1779	Model	EM-3060J-2M



※ Joint type motor cord is necessary.

O.D.	Speed Range	Max. power	Weight
Ø30 _{mm}	1,000 ~ 60,000 _{min⁻¹}	350w	0.3m : 360g 2 m : 525g
Standard Accessories Wrench (22×27) : 1pc.			



Motor

EM-3030T

30,000min⁻¹ torque motor



O.D. ∅30mm

- EM-3030T torque is twice as big as EM-3060.



EM-3030T-J

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



O.D. ∅30mm

- EM-3030T-J torque is twice as big as EM-3060J.



Cord length L=0.3m / 2m

EM-3080J

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



O.D. ∅30mm



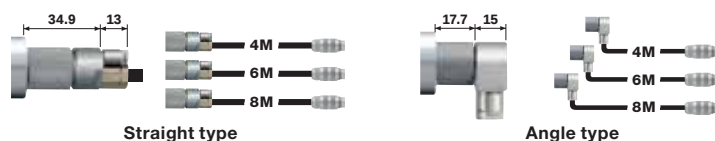
Cord length L=0.3m / 2m

Specifications

DXF data DXF files are available on our website

Order by Code No.

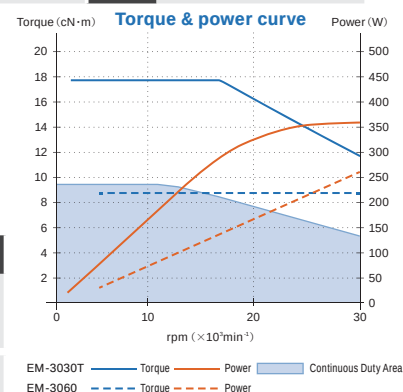
EM-3030T



O.D.	Speed Range	Max. power	Weight
Ø30mm	1,000 ~ 30,000min ⁻¹	350w	350g

Standard Accessories Wrench (22×27) : 1pc.

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



Old type
(Color of air output joint is white)
Controller



New type
(Color of air output joint is blue)
Controller

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

EM-3030T-J

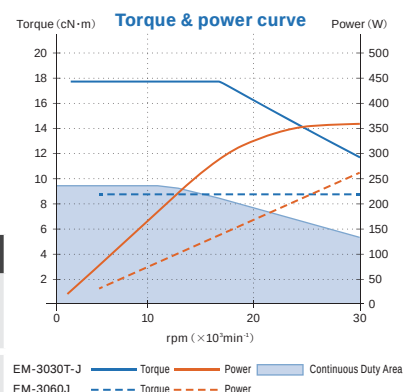


※ Joint type motor cord is necessary.

O.D.	Speed Range	Max. power	Weight
Ø30mm	1,000 ~ 30,000min ⁻¹	350w	0.3m : 425g 2 m : 600g

Standard Accessories Wrench (22×27) : 1pc.

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



Old type
(Color of air output joint is white)
Controller



New type
(Color of air output joint is blue)
Controller

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

EM-3080J

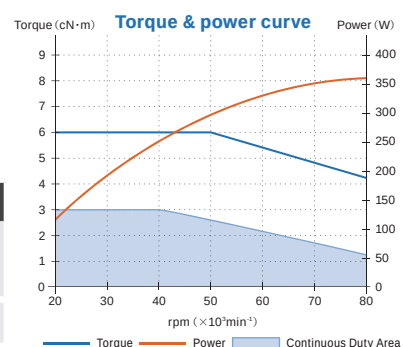


※ Joint type motor cord is necessary.

O.D.	Speed Range	Max. power	Weight
Ø30mm	20,000 ~ 80,000min ⁻¹	350w	0.3m : 375g 2 m : 550g

Standard Accessories Wrench (22×27) : 1pc.

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



Spindle
Guide

CHK



NR-2551



E3000 SERIES

Shown In Actual Size

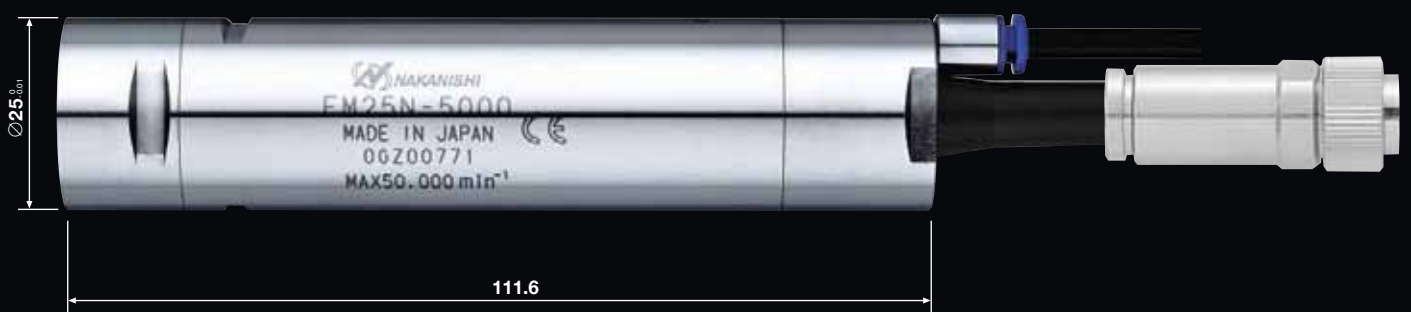
Spindle (Modular type)

NR-2551

Straight spindle

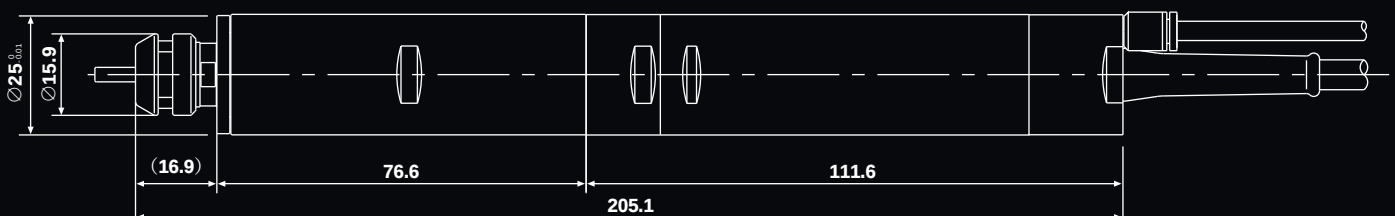
O.D. $\varnothing 25\text{mm}$ 

EM25N-5000J

50,000min⁻¹ motorO.D. $\varnothing 25\text{mm}$ 

Cord length L=0.3m

Dimensions when connected





EM25N-5000J



EMCD-2350J



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

NR-2551



Code No.

7853

Model

NR-2551

O.D.	Max. rpm	Spindle Accuracy	Collet	Weight
ø30 _{mm}	50,000 _{min⁻¹}	Within 1 _{μm}	CHK Group (ø0.5 ~ ø6.35 _{mm})	253g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. • (22×27) : 1pc.			
Options	Collet (CHK Group) : ø0.5 ~ ø6.35 _{mm} p.51			
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30 _{mm} (O.D.) / Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0 _{mm}			
	Grindstone Flange (EGF-19) : applicable grindstone I.D. ø19.05×O.D. ø40×7 _{mm}			

 ※ Outside diameter ø25.4_{mm} type is also available.

※ Collet is sold separately.

EM25N-5000J



Code No.

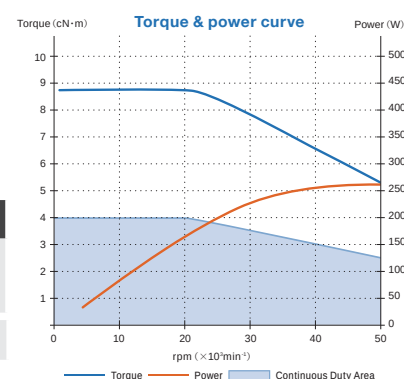
7904

Model

EM25N-5000J

O.D.	Speed Range	Max. Power	Weight
ø25 _{mm}	1,000 ~ 50,000 _{min⁻¹}	250w	335g
Standard Accessories	Wrench (22×27) : 1pc.		

※ Use EMCD-2350J Series for Motor code.



Motor cord

Motor cord	Cord No.	Model	Model	Standard Accessories	Compatible model
4M 6M 8M Joint type	7722	EMCD-2350J-4M	3.7m	Air hose Connector cap (Included)	EM25N-5000J
	7723	EMCD-2350J-6M	5.7m		
	7724	EMCD-2350J-8M	7.7m		

Motor spindle (One-piece type)



EMS-3060K

p.39



EMR-3008K

p.39



EMA-3020K

p.41



EMA-3020S

p.41



EMSF-3060K

p.45



EM30-S6000

p.43



EM25-S6000

p.43



EM20-S6000

p.43

Spindle
Guide

CHK



EMS-3060K



EMR-3008K

E3000 SERIES

Shown In Actual Size

Motor spindle (One-piece type)

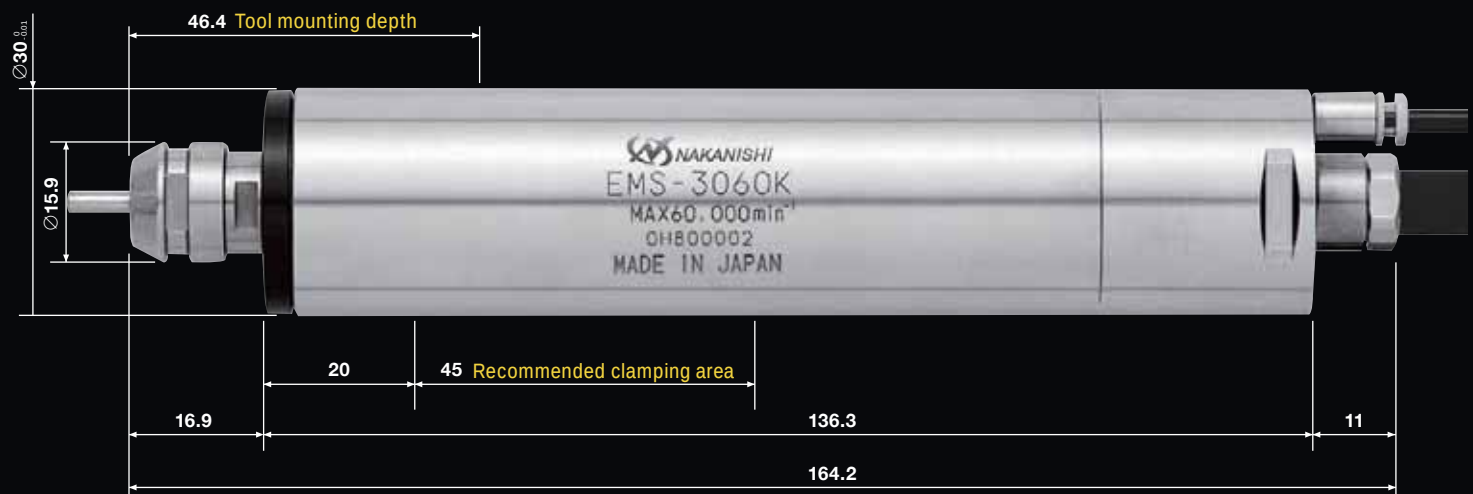
EMS-3060K

ø30 Motor spindle

CHK collet-30cm joint cord



O.D. ø30mm



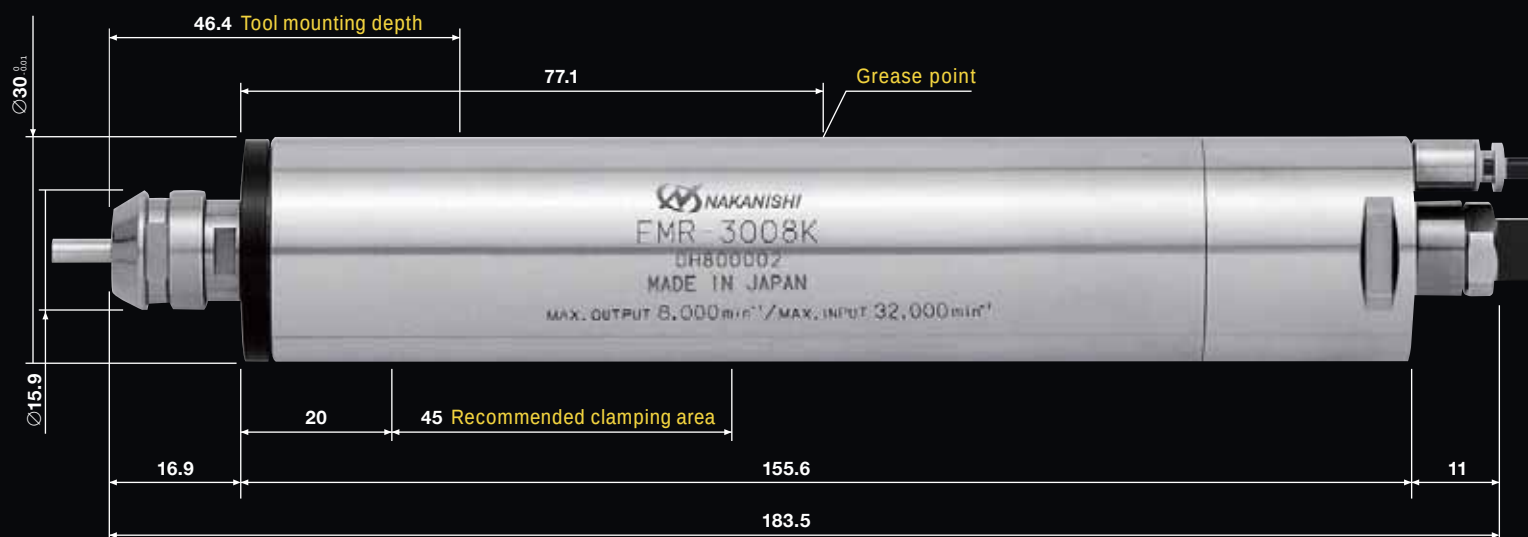
Cord length L=0.3m

EMR-3008K

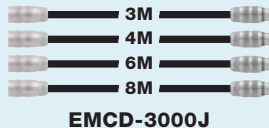
Motor spindle with reduction gear



O.D. ø30mm



Cord length L=0.3m



EMCD-3000J



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

EMS-3060K



Code No.

7862

Model

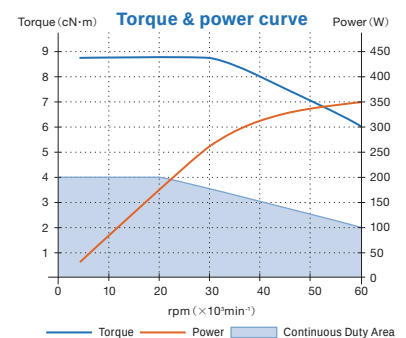
EMS-3060K

O.D.	Max. rpm	Spindle Accuracy	Collet	Max. power	Weight
Ø30mm	60,000min ⁻¹	Within 1 μm	CHK Group (ø0.5 ~ ø6.35mm)	350w	565g
Standard Accessories		Collet nut (K-265) / Wrench (12×14) : 2pcs.			
Options	Collet (CHK Group) : ø0.5 ~ ø6.35mm p.51				
	Motor cord : Length 3m (1778), 4m (1768), 6m (1767), 8m (1766)				
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30mm (O.D.) /				
	Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0mm				
	Grindstone Flange (EGF-19) : for grindstone I.D. ø19.05×O.D. ø40×7mm				

※ Collet is sold separately.



※ Joint type motor cord is necessary.



EMR-3008K



Code No.

7869

Model

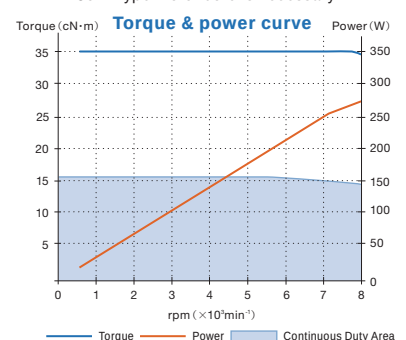
EMR-3008K

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
ø30 _{mm}	8,000 _{min⁻¹}	$\frac{1}{4}$	32,000 _{min⁻¹}
Spindle Accuracy	Collet	Max. power	Weight
Within 1 _μ m	CHK Group (ø0.5 ~ ø6.35 _{mm})	350 _w	650 _g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs.		
	Grease for reduction gear (10m ℓ) / Grease nipple : 1pc.		
Options	Collet (CHK Group) : ø0.5 ~ ø6.35 _{mm} p.51		
	Motor cord : Length 3m (1778), 4m (1768), 6m (1767), 8m (1766)		
	Metal Saw Arbor (KCH-03) : ød (I.D.) × under ø30 _{mm} (O.D.) /		
	Grindstone Arbor (AGM-03) : Grindstone I.D. ø5.0 _{mm}		
	Grindstone Flange (EGF-19) : for grindstone I.D. ø19.05×O.D. ø40×7 _{mm}		

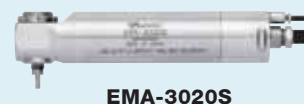
※ Collet is sold separately.



※ Joint type motor cord is necessary.



! Put grease every 70 to 100 hours to extend the life of the reduction gear. Grease-up prevents friction of the internal gears and degradation of the existing grease in the reducer.

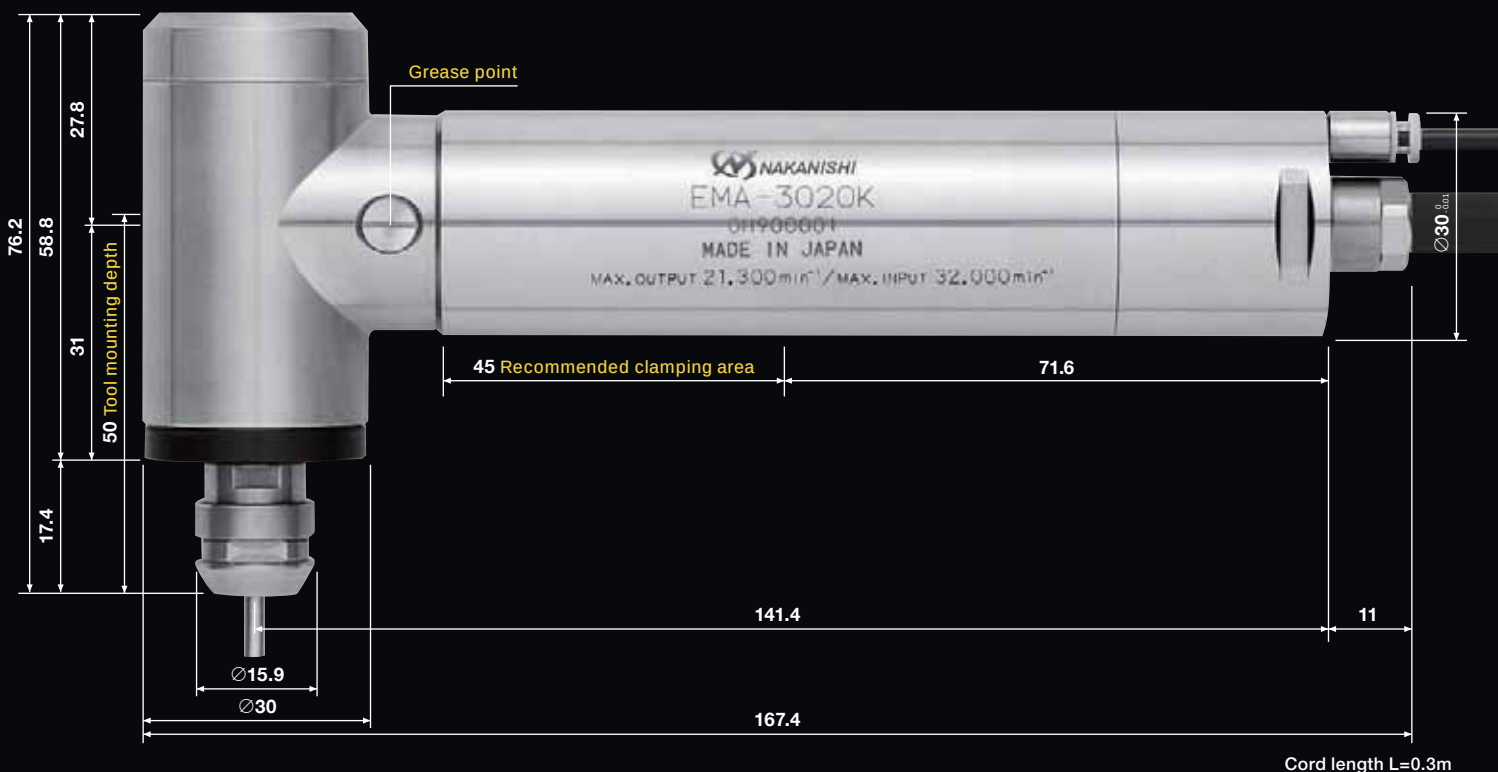
Spindle
Guide

E3000 SERIES

Shown In Actual Size

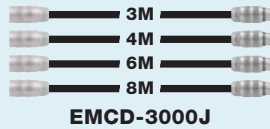
Motor spindle (One-piece type)

EMA-3020K

Angle motor spindle
Standard angle headO.D. $\varnothing$ 30mm

EMA-3020S

Angle motor spindle
Built-in angle headO.D. $\varnothing$ 30mm



EMCD-3000J



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

EMA-3020K



Code No.

7874

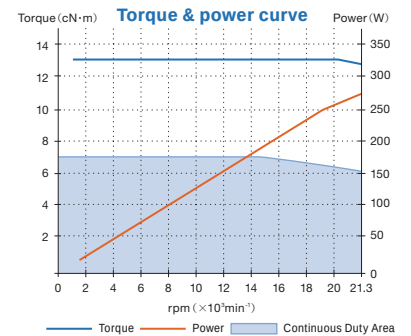
Model

EMA-3020K

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
Ø30 _{mm}	21,300 min ⁻¹	$\frac{1}{1.5}$	32,000 min ⁻¹
Spindle Accuracy	Collet	Max. power	Weight
Within 2 _{μm}	CHK Group (Ø0.5 ~ Ø6.35 _{mm})	280w	760g
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs.		
	Grease for Speed reducer (10mℓ) / Grease nipple : 1pc.		
Options	Collet (CHK Group) : Ø0.5 ~ Ø6.35 _{mm} p.51		
	Motor cord : Length 3m (1778), 4m (1768), 6m (1767), 8m (1766)		
	Metal Saw Arbor (KCH-03) : Ød (I.D.) × under Ø30 _{mm} (O.D.) /		
	Grindstone Arbor (AGM-03) : Grindstone I.D. Ø5.0 _{mm}		



※ Joint type motor cord is necessary.



※ Collet is sold separately.



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

Grease-up prevents friction of the internal gears and degradation of the existing grease in the reducer.

EMA-3020S



Code No.

1758

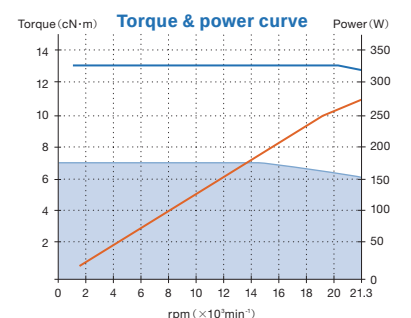
Model

EMA-3020S

O.D.	Max. speed at the cutting tool	Reduction ratio	Max. rpm
Ø30 _{mm}	21,300 min ⁻¹	$\frac{1}{1.5}$	32,000 min ⁻¹
Spindle Accuracy	Collet	Max. power	Weight
Within 3 _{μm}	CHSS Group (Ø1.0 ~ Ø3.175 _{mm})	275w	605g
Standard Accessories	Collet : Ø3.0 _{mm} (CHSS-3.0) / Wrench (7×5.1) · (8×6.1) : 1pc. each		
	Collet (CHSS Group) : Ø1.0 ~ Ø3.175 _{mm} p.51		
Options	Motor cord : Length 3m (1778), 4m (1768), 6m (1767), 8m (1766)		



※ Joint type motor cord is necessary.



Spindle
Guide

E3000 SERIES

Shown In Actual Size

Motor spindle (One-piece type)

EM30-S6000

ø30 Motor spindle · CHK collet



O.D. ø30mm



EM25-S6000

ø25 Motor spindle · CHA collet



O.D. ø25mm

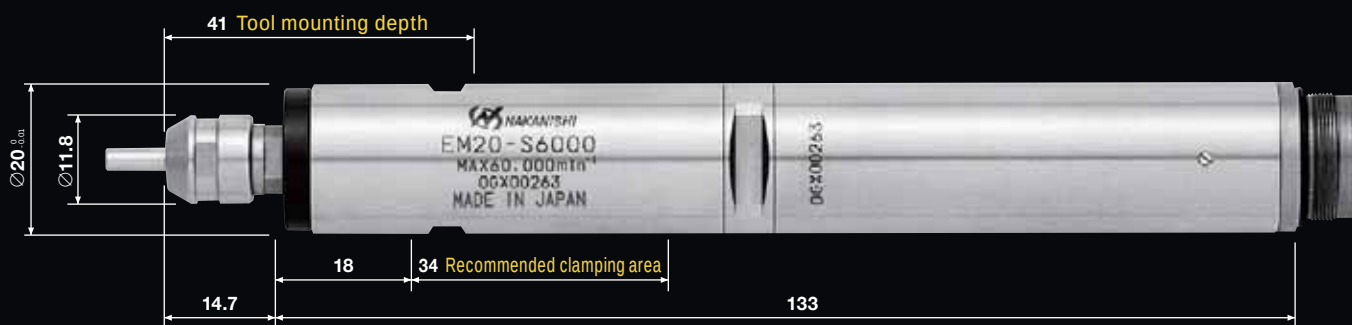


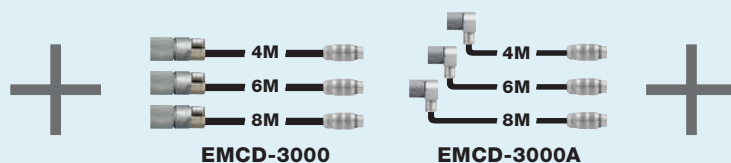
EM20-S6000

ø20 Motor spindle · CHA collet



O.D. ø20mm





E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

EM30-S6000



Code No.

7903

Model

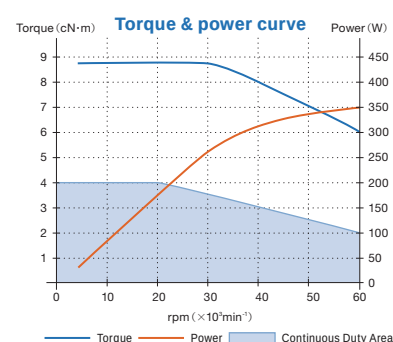
EM30-S6000

O.D.	Max. rpm	Spindle Accuracy	Collet	Max. power	Weight
Ø30mm	60,000min ⁻¹	Within 1 μm	CHK Group (Ø0.5 ~ Ø6.35mm)	350w	575g

Standard Accessories Collet nut (K-265) / Wrench (12×14) : 2pcs.

Options	Collet (CHK Group) : Ø0.5 ~ Ø6.35mm p.51
	Motor cord : Length 4m (1748), 6m (1749), 8m (1750) ※Angle type is also available
	Metal Saw Arbor (KCH-03) : Ød (I.D.) × under Ø30mm (O.D.) /
	Grindstone Arbor (AGM-03) : Grindstone I.D. Ø5.0mm
	Grindstone Flange (EGF-19) : for grindstone I.D. Ø19.05×O.D. Ø40×7mm

※ Collet is sold separately.



EM25-S6000



Code No.

7858

Model

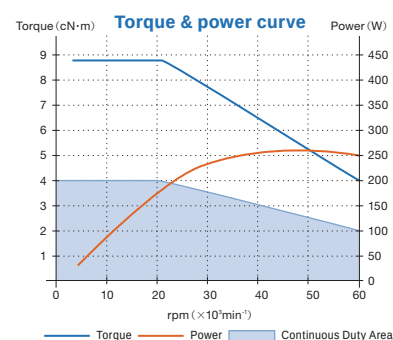
EM25-S6000

O.D.	Max. rpm	Spindle Accuracy	Collet	Max. power	Weight
Ø25mm	60,000min ⁻¹	Within 1 μm	CHA Group (Ø0.5 ~ Ø4.0mm)	250w	375g

Standard Accessories Collet nut (CHN-A) / Wrench (8×5) · (9×11) : 1pc. each

Options	Collet (CHA Group) : Ø0.5 ~ Ø4.0mm p.51
	Motor cord : Length 4m (1748), 6m (1749), 8m (1750) ※Angle type is also available

※ Collet is sold separately.



EM20-S6000



Code No.

7860

Model

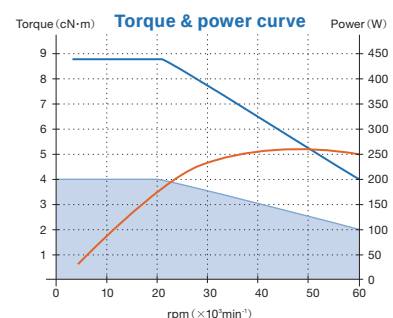
EM20-S6000

O.D.	Max. rpm	Spindle Accuracy	Collet	Max. power	Weight
Ø20mm	60,000min ⁻¹	Within 1 μm	CHA Group (Ø0.5 ~ Ø4.0mm)	250w	230g

Standard Accessories Collet nut (CHN-A) / Wrench (8×5) · (9×11) : 1pc. each

Options	Collet (CHA Group) : Ø0.5 ~ Ø4.0mm p.51
	Motor cord : Length 4m (1748), 6m (1749), 8m (1750) ※Angle type is also available

※ Collet is sold separately.



Spindle
Guide

CHK



EMS F-3060K

E3000 SERIES

Shown In Actual Size

Motor spindle (One-piece type)

EMS F-3060K

Motor spindle with flange

- Easy clamping / Unclamping of the spindle, Easy mounting to the machine.
- Avoid trouble by excessive tightening.
- Mounting spindle at small intervals available.

O.D. $\varnothing$ 30mm

Cord length L=0.3m

Various ways to mount

3 spindle types are available in E3000 series to meet customer' s demands



Straight type

Mounting devices have to be prepared by user

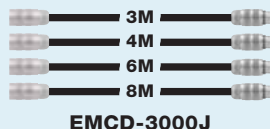


Straight type + Grip Ring

Type of usage for attachment to straight spindle
Grip Ring TS available

With flange

Type of spindle and mounting device
integrated



EMCD-3000J



E3000 CONTROLLER



E3000 SELECTOR

Specifications

DXF
data

 DXF files are available
on our website

Order by Code No.

EMSF-3060K

Code No.

7863

Model

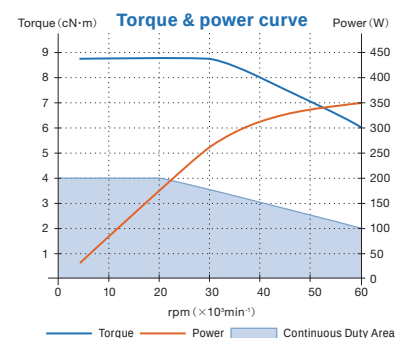
EMSF-3060K

O.D.	Max. rpm	Spindle Accuracy	Collet
Ø30 _{mm}	60,000 _{min⁻¹}	Within 1 _{μm}	CHK Group (Ø0.5 ~ Ø6.35 _{mm})
Max. power	Weight		
350w	620g		
Standard Accessories	Collet nut (K-265) / Wrench (12×14) : 2pcs. Air hose 0.3m : 1pc. / Lock bolt (M4 hexagon socket head bolt) : 4pcs.		
Options	Collet (CHK Group) : Ø0.5 ~ Ø6.35 _{mm} p.51 Motor cord : Length 3m (1778), 4m (1768), 6m (1767), 8m (1766)		

※Collet is sold separately.



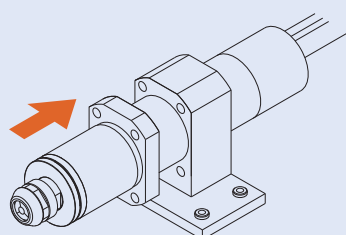
※ Joint type motor cord is necessary.



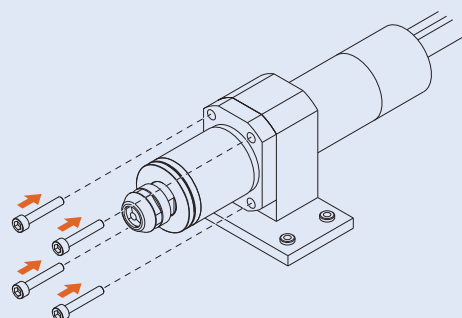
How to mount to a machine tool

In case of EMSF-3060K / NRF-3060S

- 1** Insert motor spindle body into the holder



- 2** Tighten the flange with 4 lock bolt (M4)



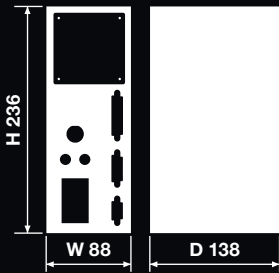
※Above figures show EMSF-3060K. NRF-3060S has 3 mounting holes (See p.9)

E3000 Controller



E3000 CONTROLLER
Controller

Code No. 8422



External Input /
Output Control Signal Operation

- External Input
Motor ON / OFF, Error Released, Rotating Direction, Motor Speed Setting and etc.
- External Monitor
Motor Current, Error, Warning, Rotating pulse and etc.
- Parameter Setting
Maximum motor speed setting, Fix the motor speed
※For more information, please refer to the operation manual on our website.
- Equipped with safety relay break and speed point

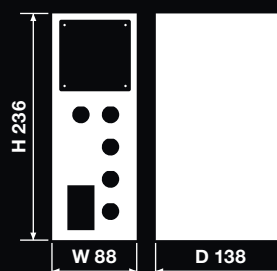
Speed Range	
1,000~80,000min ⁻¹	
Input Voltage	
AC100~240v Without plug Multiple output power	
Max. power	Power consumption
350w	AC1.8A
Air consumption	Weight
30Nℓ/min (at 0.25~0.3MPa)	2.8kg
Standard Accessories	
Power cord : 2m / Air hose with filter (K-251 : 2058)	
Reducer / Connector cap (Included)	
Bracket / Nylon Clip / Screw / Rubber pad	
Fuse (T6.3AL) 250V : 2pcs.	

E3000 Selector



E3000 SELECTOR

Selector

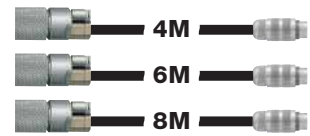
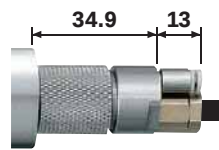
Code No. **8426**

Number of motor		
4pcs. Up to 4 motors to control with connecting selector to controller ※not simultaneously		
Input Voltage		
AC100~240v Without plug Multiple output power		
Power consumption	Air consumption	Weight
AC0.15A	120ℓ/min (When connecting 4 motors)	1.9kg
Standard Accessories		
Power cord : 2m / Communication cable : 60cm		
Selector connecting cord : 60cm		
Connector cap (Included) / Plug to avoid air flow		
Bracket / Nylon Clip / Screw / Rubber pad		
Fuse (T1.6AL) 250V : 2pcs.		

Motor cord

Straight type

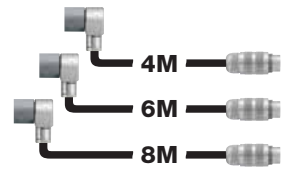
【 Feature 】 Connection at the body end



コード番号	型 式	コード長さ	標準装備・付属品	適応機種
1748	EMCD-3000-4M	4m	Air hose Connector cap (Included)	EM-3060 EM-3030T EM30-S6000 EM25-S6000 EM20-S6000
1749	EMCD-3000-6M	6m		
1750	EMCD-3000-8M	8m		

Angle type

【 Feature 】 Connection at the body end into 90 °degree



コード番号	型 式	コード長さ	標準装備・付属品	適応機種
1744	EMCD-3000A-4M	4m	Air hose Connector cap (Included)	EM-3060 EM-3030T EM30-S6000 EM25-S6000 EM20-S6000
1743	EMCD-3000A-6M	6m		
1742	EMCD-3000A-8M	8m		

Joint type

【 Feature 】 Connection possible out of the machine



コード番号	型 式	コード長さ	標準装備・付属品	適応機種
1778	EMCD-3000J-3M	3.0m	Air hose Connector cap (Included)	EM-3060J・EM-3030T-J EMS-3060K・EMS-3060A EMR-3008K・EMA-3020K EMA-3020S・EMSF-3060K EM-3080J
1768	EMCD-3000J-4M	3.7m		
1767	EMCD-3000J-6M	5.7m		
1766	EMCD-3000J-8M	7.7m		

Accessories (Air line kit, etc.)

AL-C1204

Air line kit
0.3 μ m filter
※ 1



Code No. **4504** Model **AL-C1204**

AL-M1201BL

Air line kit (for RG-3004M)
0.3 μ m filter
※ 1



Code No. **4501** Model **AL-M1201BL**

AL-A1205

Air line kit (for NRAF-5080)
0.3 μ m filter
※ 1 ※ 2



Code No. **4505** Model **AL-A1205**

AL-A0611

Air line kit (for NRAF-5080)
0.01 μ m filter



Code No. **1548** Model **AL-A0611**

※ 1 Recommendation of nominal filtration rating : 0.3 μ m, Pressure range : 0.1-1.0MPa Recommendation of air filter : M2000-WS (CKD)

※ 2 Customers to provide their own micro-mist separator (filtration rating 0.01 μ m)

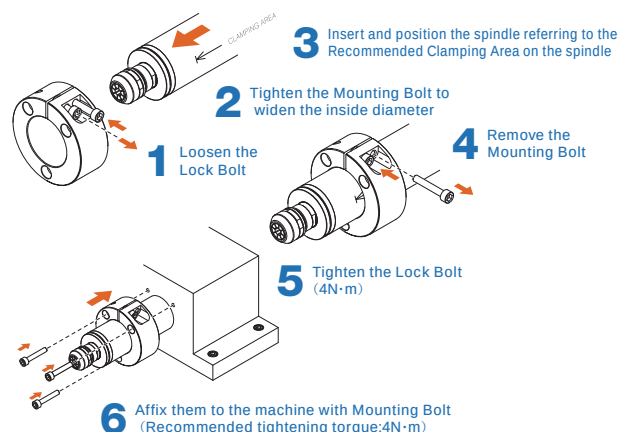
GR-30 Grip Ring



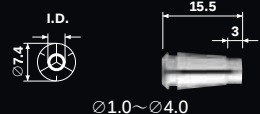
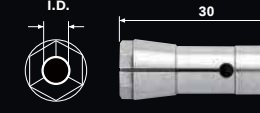
Code No. **1885** Model **GR-30**

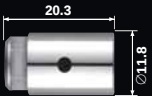
Standard Accessories Mounting Bolt (GR-30) M5×25 : 3pcs.

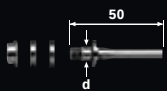
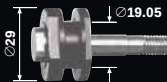
How to mount to a machine tool



Accessories (Collet, etc.)

Collet	Code No.	Model	I.D.	Compatible model
 Collet CHA Group	91494	CHA-3.0AA	ø3.0AA※	CTS-3030 EM20-S6000・EM25-S6000 EMS-3060A・NR-3080S ※ High precision type AA (Run-out Accuracy within 2 μm)
	91496	CHA-3.175AA	ø3.175AA※	
	91495	CHA-4.0AA	ø4.0AA※	
	91492	CHA-2.35	ø2.35	
	91430	CHA-3.0	ø3.0	
	91493	CHA-3.175	ø3.175	
	91440	CHA-4.0	ø4.0	
 Collet CHB Group	—	CHA-□□	ø0.5,ø0.6,ø0.7,ø0.8,ø0.9 ø1.1,ø1.2,ø1.3,ø1.4,ø1.7,ø1.8,ø1.9 ø2.1,ø2.2,ø2.3,ø2.4,ø2.6,ø2.7,ø2.8,ø2.9 ø3.1,ø3.2,ø3.3,ø3.4,ø3.6,ø3.7,ø3.8,ø3.9 ø1.0,ø1.5,ø2.0,ø2.5,ø3.5 ø1.6	NR40-5100 ATC NRR-3060-NRR-2651 NR33-6000ATC-ESD
	92820	CHB-2.0	ø2.0	
	92830	CHB-3.0	ø3.0	
	92893	CHB-3.175	ø3.175	
	92835	CHB-3.5	ø3.5	
	92840	CHB-4.0	ø4.0	
 Collet CHK Group	91597	CHK-3.0AA	ø3.0AA※	EM30-S6000・EMA-3020K EMS-3060K・EMR-3008K NR-151E・NR-3060S NRF-3060S・NR-3060 NR-403E・RAS-151E RAX-271E・RAX-71E NRAF-5080 ※ High precision type AA (Run-out Accuracy within 2 μm)
	91598	CHK-3.175AA	ø3.175AA※	
	91599	CHK-4.0AA	ø4.0AA※	
	91600	CHK-6.0AA	ø6.0AA※	
	91601	CHK-6.35AA	ø6.35AA※	
	91592	CHK-2.35	ø2.35	
	91530	CHK-3.0	ø3.0	
	91593	CHK-3.175	ø3.175	
	91540	CHK-4.0	ø4.0	
	91560	CHK-6.0	ø6.0	
	91596	CHK-6.35	ø6.35	
	—	CHK-□□	ø0.5,ø0.6,ø0.7,ø0.8,ø0.9 ø1.0,ø1.5,ø2.0,ø2.5,ø3.5,ø4.5,ø4.76,ø5.5 ø1.1,ø1.2,ø1.3,ø1.4,ø1.7,ø1.8,ø1.9 ø2.1,ø2.2,ø2.3,ø2.4,ø2.6,ø2.7,ø2.8,ø2.9 ø3.1,ø3.2,ø3.3,ø3.4,ø3.6,ø3.7,ø3.8,ø3.9 ø4.1,ø4.2,ø4.3,ø4.4,ø4.6,ø4.7,ø4.8,ø4.9 ø5.1,ø5.2,ø5.3,ø5.4,ø5.6,ø5.7,ø5.8,ø5.9 ø1.6,ø5.0	
 Collet CHR Group	91930	CHR-3.0	ø3.0	NR50-5100 ATC
	91993	CHR-3.175	ø3.175	
	91996	CHR-6.35	ø6.35	
	91920	CHR-2.0	ø2.0	
	91940	CHR-4.0	ø4.0	
	91960	CHR-6.0	ø6.0	
 Collet CHR RS Group	93201	CHR-3.0RS	ø3.0	NR50-5100 ATC RS ※Also available for NR50-5100 ATC
	93202	CHR-3.175RS	ø3.175	
	93203	CHR-4.0RS	ø4.0	
	93204	CHR-6.0RS	ø6.0	
	93205	CHR-6.35RS	ø6.35	
 Collet CHS Group	90592	CHS-2.35	ø2.35	RA-271E
	90530	CHS-3.0	ø3.0	
	90593	CHS-3.175	ø3.175	
	90516	CHS-1.6	ø1.6	
	—	CHS-□□	ø0.8,ø0.9 ø1.0,ø2.0,ø2.5 ø1.1,ø1.2,ø1.3,ø1.4,ø1.5,ø1.7,ø1.8,ø1.9 ø2.1,ø2.2,ø2.3,ø2.4,ø2.6,ø2.7,ø2.8,ø2.9	
 Collet CHSS Group	93092	CHSS-2.35	ø2.35	EMA-3020S
	93030	CHSS-3.0	ø3.0	
	93093	CHSS-3.175	ø3.175	
	—	CHSS-□□	ø1.0,ø1.5,ø2.0,ø2.5	
 Collet CH8 Group	91092	CH8-2.35	ø2.35	RA-151E
	91030	CH8-3.0	ø3.0	
	91093	CH8-3.175	ø3.175	
	—	CH8-□□	ø0.8,ø0.9 ø1.0,ø1.5,ø2.0,ø2.5 ø1.1,ø1.2,ø1.3,ø1.4,ø1.6,ø1.7,ø1.8,ø1.9 ø2.1,ø2.2,ø2.3,ø2.4,ø2.6,ø2.7,ø2.8,ø2.9	

Collet nut	Code No.	Model	Description	Compatible model
	2102	CHN-A	Collet nut for CHA collet	EM20-S6000 · EM25-S6000 EMS-3060A · NR-3080S
	2129	K-265	Collet nut for CHK collet	EM30-S6000 · EMA-3020K EMS-3060K · EMR-3008K NR-151E · NR-3060S NRF-3060S · NR-3060 NR-403E · RAS-151E RAX-271E · RAX-71E
	2158	K-265A	Collet nut for NRAF-5080	NRAF-5080
	7798	CHN-CTA-3.0	Collet nut for CTS-3030	CTS-3030
	7799	CHN-CTA-3.175		
	7800	CHN-CTA-4.0		

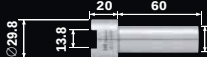
Metal Saw Arbor · Grindstone Arbor	Code No.	Model	I.D. / Description / Specifications		Compatible model
	2146	KCH-02 (5.0)	ø5.0 (I.D.)	Metal Saw Arbor ød (I.D.) x under ø30mm (O.D.) Run-out Accuracy : within 0.02mm	RA-151E
	1077	KCH-02 (6.0)	ø6.0 (I.D.)		
	2147	KCH-02 (8.0)	ø8.0 (I.D.)		
	2148	KCH-03 (5.0)	ø5.0 (I.D.)	Metal Saw Arbor ød (I.D.) x under ø30mm (O.D.) Run-out Accuracy : within 0.02m	EMA-3020K · EMS-3060K EMR-3008K NR-3060S · NRF-3060S NR-3060 · RAS-151E RAX-71E · RAX-271E
	2130	KCH-03 (6.0)	ø6.0 (I.D.)		
	2149	KCH-03 (8.0)	ø8.0 (I.D.)		
	2131	AGM-03	Grindstone Arbor Run-out Accuracy : within 0.02mm for Grindstone I.D. ø5.0mm		EMA-3020K · EMS-3060K EMR-3008K NR-3060S · NRF-3060S NR-3060 · RAS-151E RAX-71E · RAX-271E
	2138	EGF-19	Grindstone Flange Available grindstone dimension ø19.05 (I.D.) x ø40 (O.D.) mm x 7 (width) mm		EMS-3060K · EMR-3008K NR-3060S · NRF-3060S NR-3060 · NR-403E

Grease for speed reducer	Code No.	Model	Description	Compatible model
	1547	—	Grease for speed reducer (2.5m l)	ARG-011E · ARG-021E EMA-3020K RAX-271E · RAX-71E
	1550	—	Grease for speed reducer (10m l)	
	1549	—	Grease for speed reducer (100m l)	

Collet holder	Code No.	Model	Description	Compatible model
	9210	QC3-K	Collet holder for CHK ※ With K-265 (Collet nut)	NR3060-AQC NRR3060-QC
	9223	QC3-K-R		
	9209	QC3-A	Collet holder for CHA ※ With CHN-A (Collet nut)	
	9222	QC3-A-R		
	7794	QC3-SS	Collet holder for CHSS	

Bush	Code No.	Model	Description × I.D. × O.D.	Compatible model
	1877	RB-20×22	ø22 Bush Dimensions : ø20×ø22×40mm	EM20-S6000
	1876	RB-20×22.8	ø22.8 Bush Dimensions : ø20×ø22.8×40mm	
	1875	RB-20×23	ø23 Bush Dimensions : ø20×ø23×40mm	
	1878	RB-20×25	ø25 Bush Dimensions : ø20×ø25×40mm	
	1879	RB-20×25.4	ø25.4 Bush Dimensions : ø20×ø25.4×40mm	
	1880	RB-30×32	ø32 Bush Dimensions : ø30×ø32×45mm	NR-3060S · NR-3060 · NR-403E
	1881	RB-30×36	ø36 Bush Dimensions : ø30×ø36×45mm	

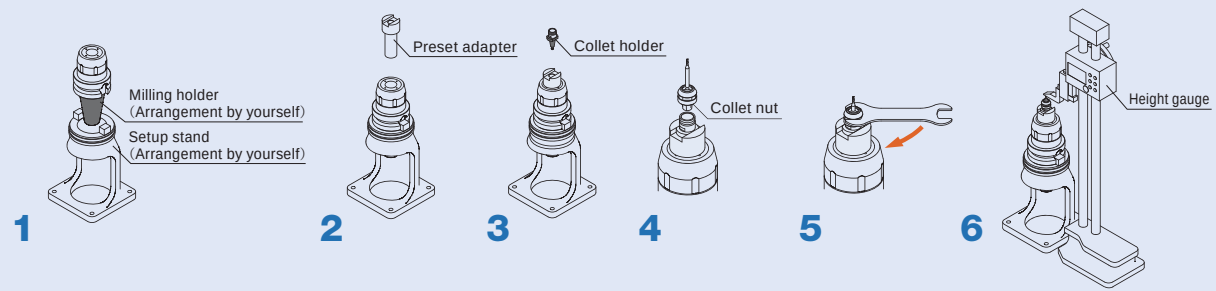
Accessories

Preset adapter	Cod e No.	Model	Description	Compatible model
	9211	QC3-ADP	Preset adapter	QC3-K • QC3-A QC3-SS

For QC3-K/A

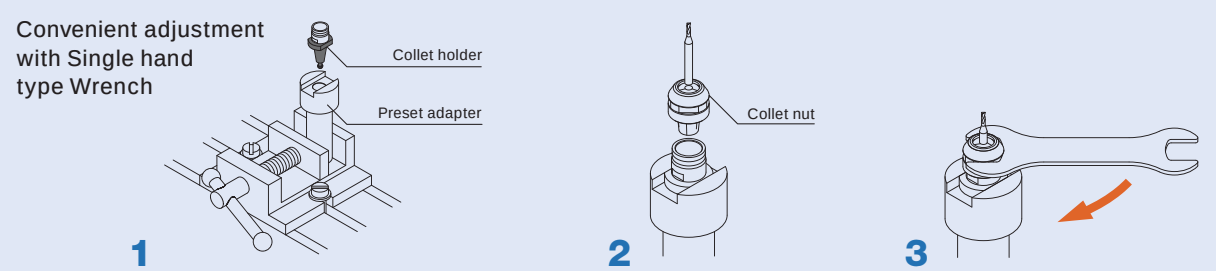
Set-up outside machines

In case using a milling holder



Set-up outside machines

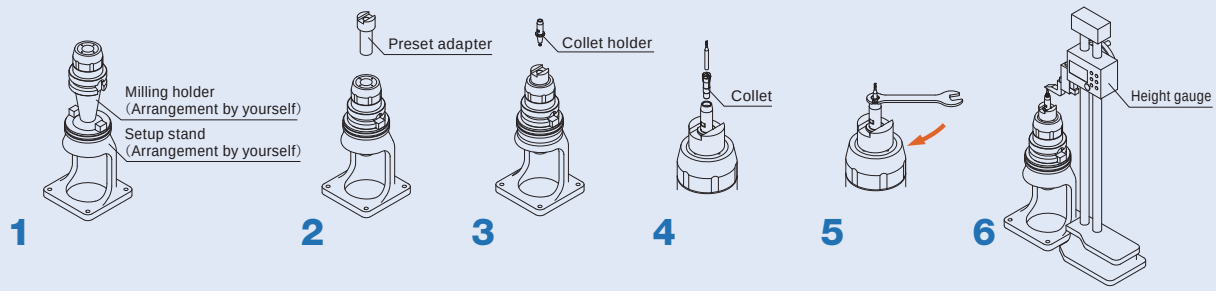
In case using a vice



For QC3-SS

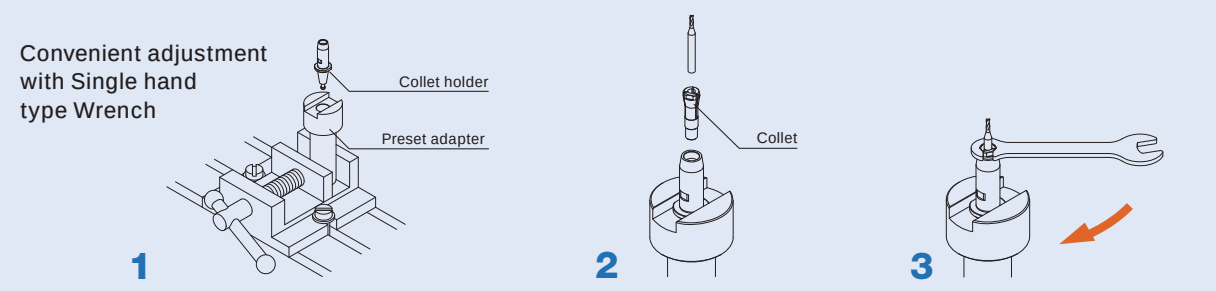
Set-up outside machines

In case using a milling holder



Set-up outside machines

In case using a vice



NAKANISHI Solutions LINE UP

Electric Motors & Spindles

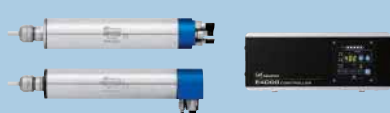
Brushless Motors & Spindles



Application for CNC lathes / Special purpose machines

E4000 SERIES

1,000~40,000min⁻¹ Max.1,200W
[ø40mm]



- World's highest power in this class
- Max. power: 1,200W, Max. torque: 1.0N·m

E2000 SERIES

1,000~50,000min⁻¹ Max.200W
[ø22.8mm]



- Small size spindle allows multi-axis installation in limited space

E3000 SERIES

1,000~80,000min⁻¹ Max.350W
[ø30/25/20mm]



- The largest product lines for various processing
- Space-saving solution for small CNC lathe

iSpeed3 SERIES

1,000~80,000min⁻¹ Max.150W
[ø19.05/20/22mm]



- Super short motor spindle
- High efficiency brushless motor

Application for machining centers and milling machines

HES SERIES

Max.80,000min⁻¹
[For small diameter endmills and drills only]



[HES810]

- The most cost effective solution to add high-speed machining capability
- 80,000min⁻¹, 6.0cN·m
- BT, HSK A63, ST shanks are available
- Driven by E3000 Controller



[HES510]

- 50,000min⁻¹, 8.75cN·m
- BT, NT, CAT, IT, HSK A, ST shanks are available
- Driven by E3000 Controller

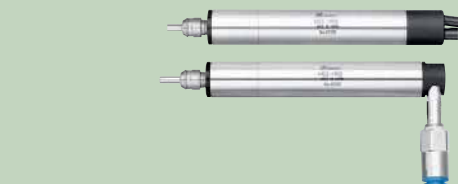
Air Motors & Spindles



Application for CNC lathes / Special purpose machines

Air-Speed SERIES One-piece type

Max.30,000min⁻¹ Max.130W
[ø25/23/20/19.05mm]



- Short body enables the spindle to mount in a limited space on a small NC/CNC lathe or on a special purpose machine

Air-Speed SERIES Modular type

Max.30,000min⁻¹ Max.130W
[ø30/25/22.8mm]



- Separate motor and spindle for flexible application changes
- Adjustable to various application through changing spindles

Air Turbine Spindles



Application for CNC lathes / Special purpose machines

Xpeed SERIES

Max.160,000min⁻¹
[ø65/40mm]



- Extreme accuracy-Runout 1μm
- For high precision small diameter drilling, internal grinding of ceramics
- Long life of spindle thanks to contactless rotation mechanism

PLANET SERIES

Max.65,000min⁻¹

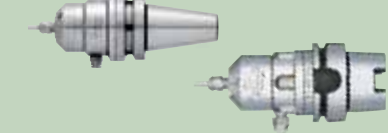


- A milling machine turns into a jig grinder
- For high precision internal grinding

Application for machining centers and milling machines

HTS SERIES

150,000min⁻¹
[For small diameter endmills and drills only]



- No thermal expansion on Z axis thanks to air turbine generating little heat
- Ultra high speed 150,000min⁻¹ with higher rigidity thanks to ceramic bearings
- BT, HSK E and straight (M2040) shanks are available

Electric spindle

Air spindle



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PR-K364E Ver.1 2022-06-16 05. ⑦ 590