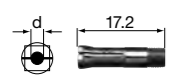
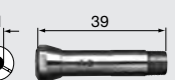
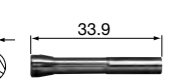

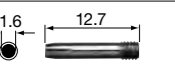
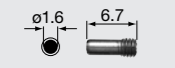







Collet Chuck

Product	Model	CAT.No.	Inside Diameter : ϕ d	Fit to
 CHC Group	90416	CHC-1.6	ϕ 1.6	IC-300, KC-300
	90492	CHC-2.35	ϕ 2.35	
	90430	CHC-3.0	ϕ 3.0	
	90493	CHC-3.175	ϕ 3.175	
 CHG Group	91192	CHG-2.35	ϕ 2.35	HG-200
	91130	CHG-3.0	ϕ 3.0	
	91193	CHG-3.175	ϕ 3.175	
	91160	CHG-6.0	ϕ 6.0	
	91196	CHG-6.35	ϕ 6.35	
	—	CHG-□□	ϕ 1.0, ϕ 1.5, ϕ 2.0, ϕ 2.5, ϕ 4.76 ϕ 1.6, ϕ 4.0, ϕ 5.0	
 CHH Group	90692	CHH-2.35	ϕ 2.35	IH-300, IR-310
	90630	CHH-3.0	ϕ 3.0	
	90693	CHH-3.175	ϕ 3.175	
	—	CHH-□□	ϕ 1.0, ϕ 1.5, ϕ 2.0, ϕ 2.5 ϕ 1.6	
 CHM Group	90910	CHM-1.0	ϕ 1.0	BMH-300
	90916	CHM-1.6	ϕ 1.6	
	90920	CHM-2.0	ϕ 2.0	
	90992	CHM-2.35	ϕ 2.35	
	90930	CHM-3.0	ϕ 3.0	
	90993	CHM-3.175	ϕ 3.175	
 90316	K-252		ϕ 1.6	MFC-300S
 90016	K-253		ϕ 1.6	MFC-300M

Parts

Product	Description	CAT.No.	Model	Fit to
	Straight Cord : 1.5 m <with Switch>	8088	ENKCD-410S	ENK-410S (Standard Type Motor)
		8089	ENKCD-250T	ENK-250T (Torque Type Motor)
	Power Supply Cord	1484	K-269	Control Unit : Emax EVOLution NE249
	Foot Control ON-OFF and speed change can be accomplished.	8106	FC-64	Control Unit : Emax EVOLution NE249
	Handpiece Holder	8107	K-273	Control Unit : Emax EVOLution NE249
	Handpiece Stand	8104	K-274	

*Order by catalogue number. ● Specifications may be changed without notice.

Nakanishi's Industrial Brand Name and
Logo have changed from **NSK** to **NAKANISHI**

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PR-K283E Ver.1 '08.10.002.A

NEW **Emax**
EVOLution



Advanced High Performance Control Unit

Advanced Control Function

With the advanced design, Easy to control motor Speed. Load meter for checking Load situation installed. This will improve work efficiency.



Motor speed digital display

Load Meter
 ● Continuous load area
 ● Intermittent load area
 ● Overload

Advanced User Friendly Control Unit Design

Equipped with a convenient handle for carrying. The space of the top of the control unit is used for the handpiece place or the cutting tool.



Forward / Reverse Select Switch

Forward/Reverse rotation can be selected.

ø12mm Speed Control Volume
 Easy to operate by one hand

Emax EVOLution Control Unit

	Model	Specifications
For 120V	NE249	● Weight : 2.3 kg ● Power Source : AC120/230V, 50-60Hz ● Dimensions : W130 x D254 x H97 mm
For 2300V		

Accessories : Handpiece Holder : 1 pc., Handpiece Stand : 1 pc.
 Power Supply Cord : 1 pc.

Diversity for work efficiency

A / B 2 Motors can be connected, and select the suited motor for work situation.

*Simultaneous motor operation is not possible



Memory Speed Function FiXpeed®

An exclusive new feature of the Emax EVOLution system, the FiXpeed® system allows the user to independently preset the speed of motor A and motor B. For example motor A can be set to maintain the speed set by the FiXpeed® system while motor B has variable control using a foot control. This function allows for unprecedented flexibility.

Auto Cruise Function

The control unit is equipped with an auto cruise function that operates the micro-grinder at a preset speed without the need to use the foot control. This function eliminates foot fatigue during prolonged operation.



Memory Speed Function FiXpeed®

Motor B ON/OFF Function

Motor A ON/OFF Function

Micro Grinder

NAKANISHI Smart Switch

The switch provides a click sensation and a confirmation tone is produced by the control unit when the switch is operated. The motor type is distinguishable by the switch color.



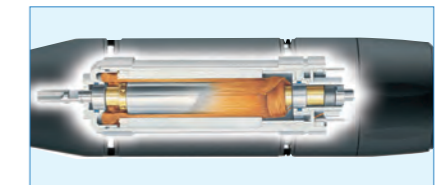
One Touch Tool Changing

- Ring Type (IR-310)
 Ring operated open/close chuck



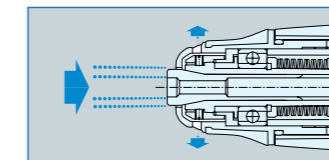
Various Collet Chuck Size

Various sizes ranging from ultra-small diameter (0.3 mm) are available for each attachment. Furthermore, collet replacement can be easily performed without spanner.

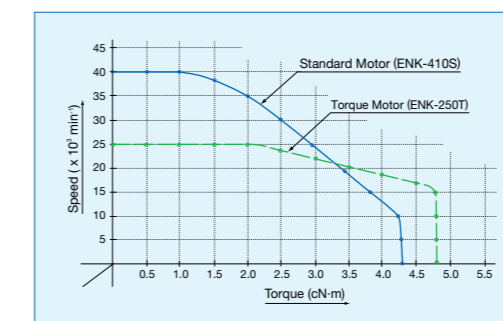


Special Dust Protection Mechanism (patented)

The chuck section of Emax EVOLution has a special built-in dust protection mechanism that prevents entry of foreign matter such as chips and provides superior durability.



Motor Torque Characteristics



2 Types of Motors

Allows selection to suit the application.

- Standard Type Motor 1,000~40,000 min⁻¹ (ENK-410S) Blue
- Torque Type Motor 1,000~25,000 min⁻¹ (ENK-250T) Green

*Exclusive use for Emax EVOLution

Excellent Durability

- High performance brushless motor eliminates the need to change carbon brushes.
- RPM variation is minimal even when load changes. Allowing difficult and stable cutting and grinding operations to be preformed.
- Provides superior quietness from low speed to high speed and stepless speed control.

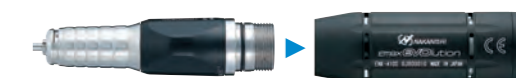
16 Type of Attachments for All Type of Applications

Capable of infinite applications with 13 different handpieces and 3 types of intermediate attachments.

*Interchangeable with attachments form the E-max and ROTUS system.



Screw-In Attachments for Easy Replacement



Emax EVOLution HIGH SPEED STANDARD SET (Ring Type)

New



As well as providing an excellent balance of speed, torque, size and weight, it is capable of dealing with rough or precise work. Furthermore the bur can be replaced with one touch, just by turning the ring.

1,000~40,000 min⁻¹

*New Ring Type IR-310 is the standard attachment for Emax EVOLution standard set.

For 120V / 230V

	Attachment	Motor
	IR-310	ENK-410S
Standard Equipment	Micro Grinder (IR-310+ENK-410S) : 1 pc. Collet Chuck ø3.0 mm (CHH-3.0), ø2.35 mm (CHH-2.35) : 1 pc. each Control Unit (NE249) : 1 pc. Handpiece Holder : 1 pc. Handpiece Stand : 1 pc. Power Supply Cord : 1 pc. Spanner (7 x 5.1) : 1 pc. Pin Spanner (K-233) : 1 pc. L Shaped Spanner : 1 pc.	

Emax EVOLution RING TYPE TORQUE SET (Ring Type)

New



High torque and high speed allows for a wide variety of applications with large tools. Furthermore the bur can be replaced with one touch, just by turning the ring.

1,000~25,000 min⁻¹

*New Ring Type IR-310 is the standard attachment for Emax EVOLution torque set.

For 120V / 230V

	Attachment	Motor
	IR-310	ENK-250T
Standard Equipment	Micro Grinder (IR-310+ENK-250T) : 1 pc. Collet Chuck ø3.0 mm (CHH-3.0), ø2.35 mm (CHH-2.35) : 1 pc. each Control Unit (NE249) : 1 pc. Handpiece Holder : 1 pc. Handpiece Stand : 1 pc. Power Supply Cord : 1 pc. Spanner (7 x 5.1) : 1 pc. Pin Spanner (K-233) : 1 pc. L Shaped Spanner : 1 pc.	

CAT. No. Model

Attachment

Ring Type 1147 IR-310	90° Angle Type 1006 IC-300 20,000 min ⁻¹ Max. (*2)
Lever Type 1005 IH-300	45° Angle Type 1014 KC-300 20,000 min ⁻¹ Max. (*2)
6 mm Torque Type (*3) 1016 HG-200 27,000 min ⁻¹ Max. (*1)	LUSTER (Reciprocating motion) 1302 LS-100 30,000 min ⁻¹ Max. (*1)
Long Type 1017 BMH-300 35,000 min ⁻¹ Max. (*1)	MINI-LUSTER (Reciprocating motion) 1307 ML-8 30,000 min ⁻¹ Max. (*1)
90° Mini Angle Type 1012 MFC-300S 15,000 min ⁻¹ Max. (*1)	SWING-LUSTER (Right to left motion) 1380 SLS-16 30,000 min ⁻¹ Max. (*1)
90° Mini Angle Type (Very Small Head) 1013 MFC-300M 15,000 min ⁻¹ Max. (*1)	Hammer Action Type 8060 HA-500 20,000 min ⁻¹ Max. (*1) 16,000 min ⁻¹ Max. (*2)
	FINE BELT SANDER 1146 KBS-101 35,000 min ⁻¹ Max. (*1)

* Can be used for Emax series attachments, reducers, and extension joint

* Never connect to Emax Series motor NK-351, NK-261 and NK-151.

* 3 : Use 6mm torque Type HG-200 to connect ENK-250T

System Chart

Speed Reducer - Extension Joint

Extension Joint 1015 CN-01 35,000 min ⁻¹ Max. (*1)
1/4 Speed Reducer 1009 RG-01 35,000 min ⁻¹ Max. (*1)
1/15 Speed Reducer 1010 RG-02 35,000 min ⁻¹ Max. (*1) May be connected between the motor and the attachment as required for increased torque.

Motor

New

Exclusive use for Emax EVOLution	
	• Standard Type Motor with Cord 1,000~40,000 min ⁻¹
8086 ENK-410S	
	• Torque Type Motor with Cord 1,000~25,000 min ⁻¹
8087 ENK-250T	

Control Unit




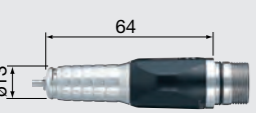

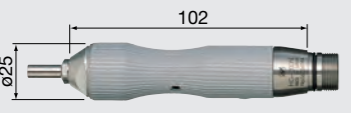
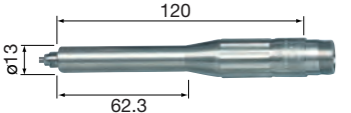
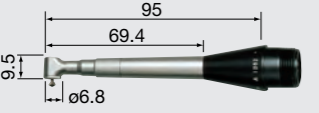



New

Emax EVOLution Control Unit	
For 120V	NE249
For 230V	



For 120V	NE249
For 230V	

Emax EVOLUTION Attachments

Product	Description	CAT. No.	Model	Specifications
	Emax EVOLUTION Control Unit	For 120V For 230V	NE249	<ul style="list-style-type: none"> Weight : 2.3 kg Power Source : AC 120/230V, 50-60Hz Dimensions : W130 x D254 x H97 mm
	Standard Type Motor with Cord	8086	ENK-410S	<ul style="list-style-type: none"> Weight : 90 g (w/o Cord) Max. Torque 4.3 cN·m with Straight Cord 1.5m Output Power : 73W Speed : 1,000~40,000 min⁻¹
	Torque Type Motor with Cord	8087	ENK-250T	<ul style="list-style-type: none"> Weight : 147 g (w/o Cord) Max. Torque 4.8 cN·m with Straight Cord 1.5m Output Power : 76W Speed : 1,000~25,000 min⁻¹
	Ring Type Attachment	1147	IR-310	<ul style="list-style-type: none"> 1,000~40,000 min⁻¹ Weight : 92 g Collet Chuck : ø3.0 mm (CHH-3.0), ø2.35 mm (CHH-2.35) Accessory : Spanner (7 x 5.1) 1 pc., Pin Spanner (K-233) 1 pc., L Shaped Spanner 1 pc.
	Lever Type Attachment	1005	IH-300	<ul style="list-style-type: none"> 1,000~40,000 min⁻¹ Weight : 62 g Collet Chuck : ø3.0 mm (CHH-3.0), ø2.35 mm (CHH-2.35) Accessory : Spanner (7 x 5.1) 1 pc., Pin Spanner (K-233) 1 pc.
	6 mm Torque Type Attachment	1016	HG-200	<ul style="list-style-type: none"> Weight : 210 g Collet Chuck : ø6.0 mm (CHG-6.0), Accessory : Spanner (10 x 10) 1 pc., Bar Wrench (K-212) 1 pc., Pin Spanner (K-233) 1 pc. *: Use 6mm torque Type HG-200 to connect ENK-250T 27,000 min⁻¹ Max. (*1)
	Long Type Attachment for Deep Hole Grinding ø13 mm	1017	BMH-300	<ul style="list-style-type: none"> Weight : 156 g Collet Chuck : ø3.0 mm (CHM-3.0) Accessory : Spanner (7 x 5.1), (6 x 4.5) 1 pc. each, Pin Spanner (K-233) 1 pc. 35,000 min⁻¹ Max. (*1)
	90° MINI ANGLE TYPE Attachment for Chamfering Deep Hole (Very Small Head)	1013	MFC-300M	<ul style="list-style-type: none"> Weight : 47 g Speed Reduction Ratio : 10/11 Collet Chuck : ø1.6 mm (K-253) Accessory : Chuck Wrench (K-232) 1 pc., Pin Spanner (K-233) 1 pc. 15,000 min⁻¹ Max. (*1)
	90° MINI ANGLE TYPE Attachment for Chamfering Deep Hole	1012	MFC-300S	<ul style="list-style-type: none"> Weight : 50 g Speed Reduction Ratio : 10/11 Collet Chuck : ø1.6 mm (K-252) Accessory : Chuck Wrench (K-232) 1 pc., Pin Spanner (K-233) 1 pc. 15,000 min⁻¹ Max. (*1)
	90° ANGLE Attachment	1006	IC-300	<ul style="list-style-type: none"> Weight : 45 g Standard Accessories (Rubber Pad, Paper Disk) Collet Chuck : ø3.0 mm (CHC-3.0) Accessory : Standard Accessories 1 set, Chuck Wrench (K-231) 1 pc., Pin Spanner (K-233) 1 pc. 20,000 min⁻¹ Max. (*2)
	45° ANGLE Attachment	1014	KC-300	<ul style="list-style-type: none"> Weight : 45 g Standard Accessories (Rubber Pad, Paper Disk) Collet Chuck : ø3.0 mm (CHC-3.0) Accessory : Standard Accessories 1 set, Chuck Wrench (K-231) 1 pc., Pin Spanner (K-233) 1 pc. 20,000 min⁻¹ Max. (*2)

Emax EVOLUTION Attachments

Product	Description	CAT. No.	Model	Specifications
	MINI-LUSTER Attachment (Pencil-Type Polisher) (Reciprocating motion)	1307	ML-8	<ul style="list-style-type: none"> Weight : 130 g Max. tool shank diameter ø3.2 mm, Screw clamp type. Stroke range (fixed) : 0.8 mm Accessory : Standard Accessories 1 set, Allen Wrench (1.5 mm) 1 pc. 30,000 min⁻¹ Max. (*1)
	SWING-LUSTER Attachment (Pencil-Type Polisher) (Right to Left motion)	1380	SLS-16	<ul style="list-style-type: none"> Weight : 127 g Reciprocating Stroke (Variable) : 0~9,000 times/min. Stroke range (Variable) : 0~1.6 mm Max. tool shank diameter ø5.0 mm, Screw clamp type. Accessory : Standard Accessories 1 set, Allen Wrench (1.5 mm) 1 pc. 30,000 min⁻¹ Max. (*1)
	Hammer Attachment for Engraving and Ornament Processing Work	8060	HA-500	<ul style="list-style-type: none"> Weight : 95 g Stroke Times : 25~5,000 times/min. Stroke Spring Pressure : 4.4~7.1N (Ring Adjustment Type) Accessory : Spanner (7 x 5.1) 1 pc., Bar Wrench (K-212) 1 pc., Oil and Oil offer machine, Hammer Bit (For replacement) 2 pcs. 20,000 min⁻¹ Max. (*1), 16,000 min⁻¹ Max. (*2)
	FINE BELT SANDER Attachment	1146	KBS-101	<ul style="list-style-type: none"> Weight : 350 g Belt Speed : 0~825 m/min. Belt Size : 4, 6, 8 mm Accessory : 8, 6, 4 mm Belts, Allen Wrench (3 mm) : 1 pc. 35,000 min⁻¹ Max. (*1)
	LUSTER Attachment (Pistol-Type Polisher) (Reciprocating motion)	1302	LS-100	<ul style="list-style-type: none"> Weight : 680 g Max. tool shank diameter ø6.4 mm, Screw clamp type. Accessory : Standard Accessories 1 set, Allen Wrench (2 mm) 1 pc., Lubrication Oil, Lubrication Nozzle for LUSTER 30,000 min⁻¹ Max. (*1)
	EXTENSION JOINT	1015	CN-01	<ul style="list-style-type: none"> Weight : 83 g Pin Spanner (K-233) : 1 pc. 35,000 min⁻¹ Max. (*1)
	1/4 SPEED REDUCER	1009	RG-01	<ul style="list-style-type: none"> Weight : 68 g Pin Spanner (K-233) : 1 pc. 35,000 min⁻¹ Max. (*1)
	1/15 SPEED REDUCER	1010	RG-02	<ul style="list-style-type: none"> Weight : 93 g Pin Spanner (K-233) : 1 pc. 35,000 min⁻¹ Max. (*1)