



Motors & Spindles, Micro-grinders

Ultra-Precision Electrically / Pneumatically Driven

Precision & Reliability

NSK America

NAKANISHI
E4000 CONTROL UNIT

AMERICAN ROTARY TOOLS CO. (ARTCO TOOLS)
250 WEST DUARTE ROAD, #E
MONROVIA, CA USA 91016-7464

Tel: (626) 358-8466 Fax: (626) 358-0076
Toll Free USA Tel: (800) 624-2212 Fax: (800) 624-2210
Email: info@artcotools.com

2010/11

Edition

Email for Pricing and Delivery

HES Series

Electric System



Upgrade your existing NC Milling machines and CNC machining centers to high speed machines.

HES510

5,000~50,000 min⁻¹(rpm) Output : 250W

BT30 / 40 / 50, NT30 / 40 / 50 (M), CAT40 / 50
IT40 / 50, ST32, R8, HSK A63 / A100



HES810

20,000~80,000 min⁻¹(rpm) Output : 350W

BT30 / 40 / 50, NT40, CAT40
HSK A63, ST32



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1	EmaxEVO
	ESPERT
	ROTUS
	ECOMO
	IMPULSE
	PRESTO II
	SHEENUS neo
	SONIC CUTTER
2	iSpeed
	E2530
	E2550
	E3000
	E3200
	E4000
3	MA SERIES
	ø0.897"
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	HIGH SPEED
	AMX
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"HES • HTS • HPS • SMS SERIES" SPECIFICATION'S COMPARISON

UPGRADE YOUR EXISTING NC MILLING MACHINES AND CNC MACHINING CENTERS TO HIGH SPEED MACHINES

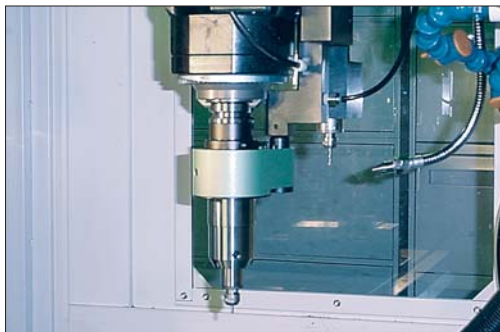
● ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE "HES SERIES"



● ULTRA-HIGH SPEED AIR TURBINE MILLING SPINDLE "HTS SERIES"







● HIGH-SPEED AIR MOTOR MILLING SPINDLE "HPS SERIES"



● HIGH-SPEED AIR MOTOR MILLING SPINDLE "SMS SERIES"



Specification's Comparison

Series	Driven System	Speed {min ⁻¹ (rpm)}	Max. Output Power	Available Chuck Size	Shank	Notes
HES Series  HES510 HES810	Electric System (Brushless Motor)	HES510 5,000 ~ 50,000	250W	Max. $\phi 1/4"$	BT30 / 40 / 50 NT30 / 40 / 50 (M) CAT40 / 50, IT40 / 50 ST32, R8 HSK A63 / A100	NE211
		HES810 20,000 ~ 80,000	350W	Max. $\phi 4.0$ mm	BT30 / 40 / 50 NT40 CAT40 HSK A63, ST32	NE260
HTS Series 	Air System (Air Turbine)	150,000 (71PSI)	25W	Max. $\phi 4.0$ mm	Straight $\phi 20$ mm BT30 / 40 / 50 HSK E25 / 32 / 40 / 50 HSK A63, HSK F63	
HPS Series 	Air System (Air Motor)	HPS250 25,000 (73PSI)	77W (73PSI)	Max. $\phi 1/8"$	BT30 CAT40	
		HPS500 50,000 (73PSI)	51W (73PSI)	Max. $\phi 1/8"$		
SMS Series 	Air System (Air Motor)	40,000 (56PSI)	60W (71PSI)	Max. $\phi 4.0$ mm	Straight $\phi 20$ / $\phi 25$ / $\phi 25.4$ mm BT30 / 40 NT30 / 40 (M) CAT40, IT40	

ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE

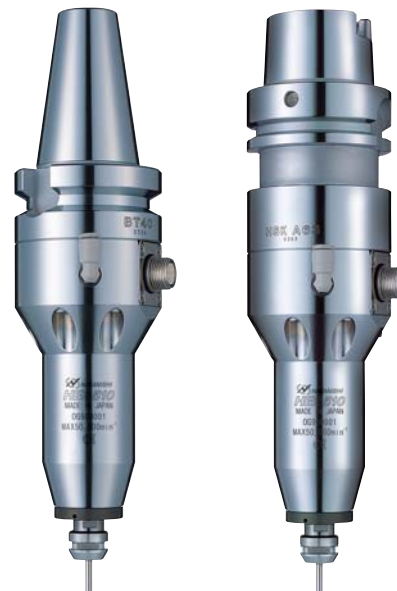
"HES510"

- The Ultra-Precision, High-Speed HES510 spindles allow you to use your existing equipment for a much larger variety of operations. Conventional milling machines and machining centers can now do high-speed machining, small diameter drilling and milling with extremely good surface finishes with the HES510. ● Max. Output 250W

HES510 Features

- **5,000-50,000 min⁻¹(rpm)**
- **Maximum Output 250W**
The HES510 motor is a brushless DC motor that utilizes hall elements and rare-earth magnets to realize max. output 250W in a very compact size.
- **Ceramic Bearings**
The spindle uses a double pair of ceramic bearings in the front and in the rear. This arrangement maximizes both radial and axial rigidity to insure extremely high-precision cutting. The motor also uses ceramic bearings to maximize life expectancy.
- **Smooth Rotation**
The absence of a commutator and the use of a photo coupler sending a feedback signal of 48 pulses per revolution result in very smooth rotation with low vibration throughout the speed range.
- **One-Piece motor and spindle construction**
The motor and spindle are built as a single unit minimizing size and weight and allowing usage on a very wide variety of machines.
- **Emergency Connector**
The system incorporates an emergency, breakaway connector to help prevent system damage in case the machine's main spindle is rotated accidentally.
- **Excellent Durability by air-cooling system**
Air-cooling motor uses a small volume of air (1.0 CFM) to prevent heat buildup and allow long, continuous operation.
- **Best for small diameter drilling and milling**
Less than $\phi 0.08$ " ($\phi 2$ mm) small diameter drilling and milling with extremely good surface finishes, using a high-speed brushless motor.

- **Cooling Air**
Clean dry air is required to cool the motor and protect the spindle from contaminants. Please use a filter and regulator. (Proper air pressure 28-42PSI) (Use Air Line Kit AL-0201)
- **Large Variety of Tapers Available**
BT, NT, CAT, IT, ST32, R8 and HSK A tapers are available.
- **Protection Circuit**
The control unit is compact and lightweight. It features a protection circuit to stop the motor automatically in case of overload ensuring safe and smooth operation.

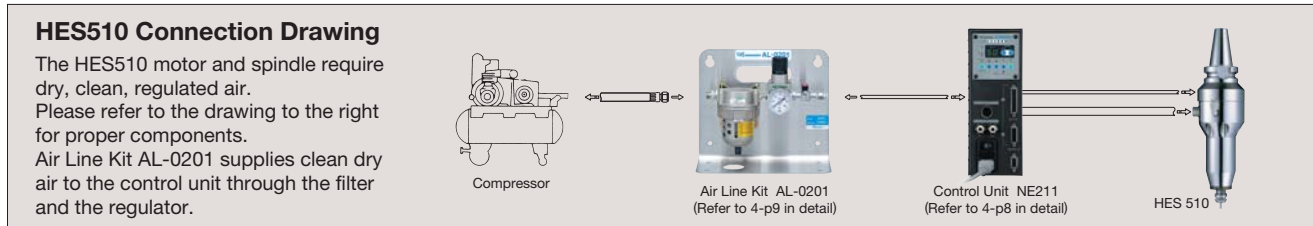
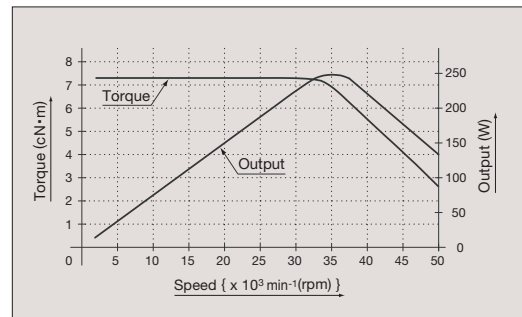


HES510 Specifications

- Speed 5,000-50,000 min⁻¹(rpm)
- Max. Output Power 250W
- Spindle Accuracy Within 1 μ m
- Standard Size Collet (CHK-3.175) $\phi 1/8$ "
- < Optional >
- Air Line Kit (AL-0201) For Control Unit NE211
- Collet (CHK-□□) $\phi 0.5$ mm- $\phi 6.35$ mm
(See Page 6-p3 for details)
- Motor Cord (EMCD-810-□□) Length 13 ft (9248) / 19 ft (9249) / 26 ft (9250)
Provided with Air Cooling Hose $\phi 4$ mm

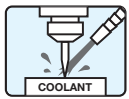
Note : Motor Cord is sold separately.

● Torque & Output Power Characteristic of HES510

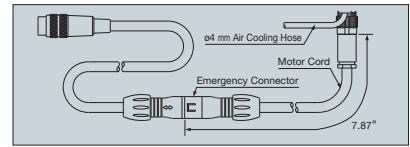


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E2530
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"HES510" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



HES Series can be used in conjunction with water or oil based coolants.

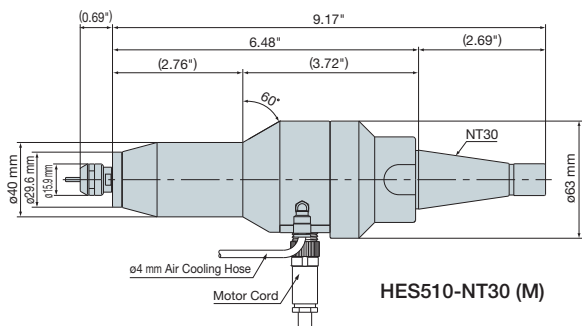
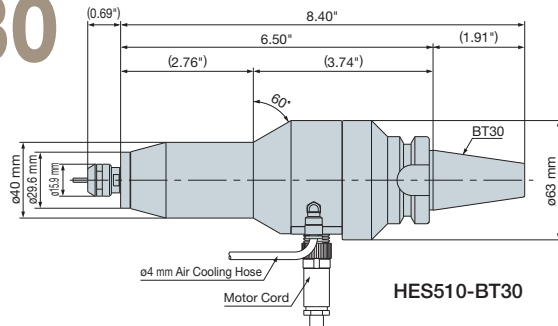


*All HES Series Spindles incorporate an emergency connector

Note : Motor Cord is sold separately.

HES510-BT30 / NT30 (M)

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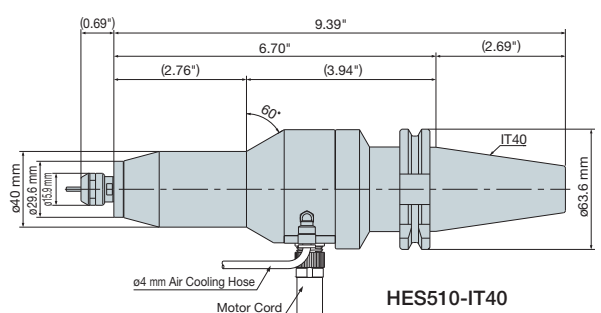
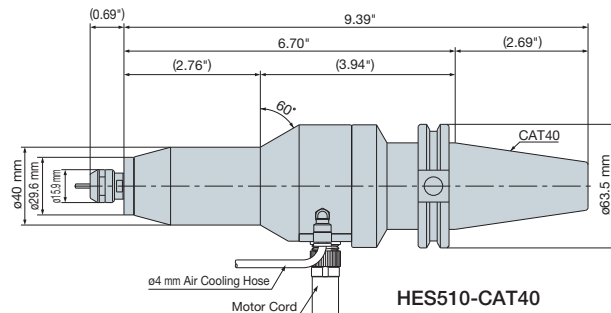
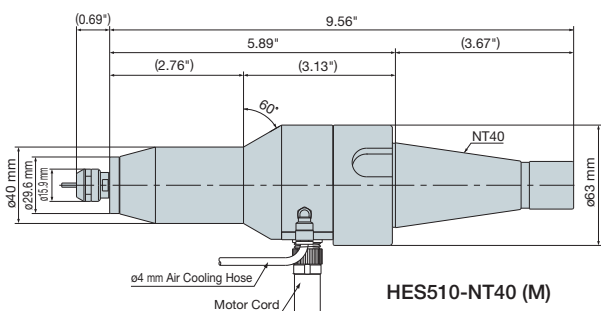
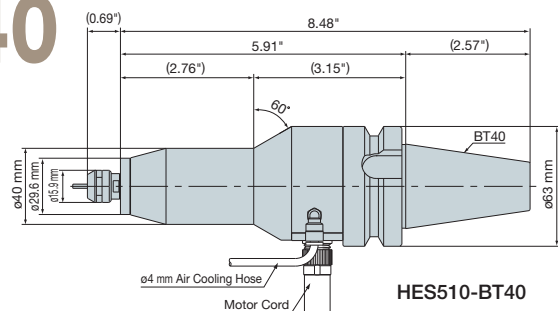


CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
1943	HES510-BT30	• Collet $\phi 1/8"$ (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	4.85 lb.	
1944	HES510-NT30			
1945	HES510-NT30M			

*NT30M—Retention knob threads are metric.

HES510-BT40 / NT40 (M) / CAT40 / IT40

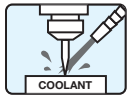
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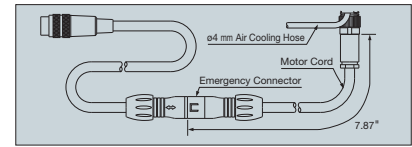
CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
1946	HES510-BT40	• Collet $\phi 1/8"$ (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	5.07 lb.	
1947	HES510-NT40		5.29 lb.	
1948	HES510-NT40M		5.29 lb.	
1949	HES510-CAT40		5.07 lb.	
1950	HES510-IT40		5.07 lb.	

*NT40M—Retention knob threads are metric.

"HES510" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



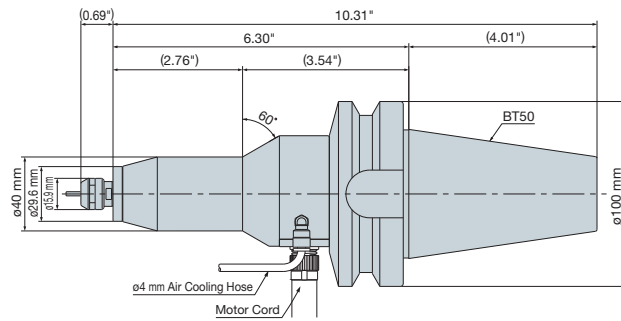
Note : Motor Cord is sold separately.



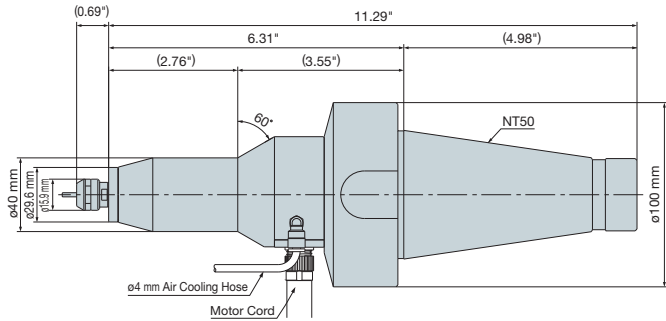
*All HES Series Spindles incorporate an emergency connector

HES510-BT50 / NT50 (M) / CAT50 / IT50

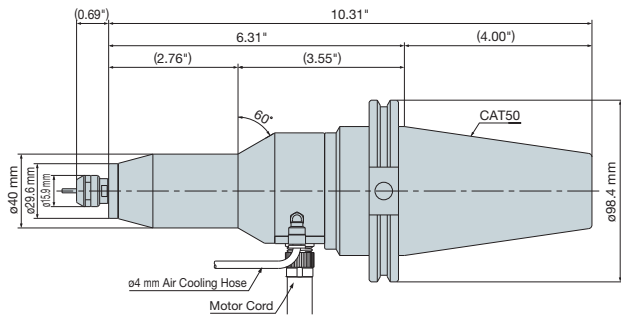
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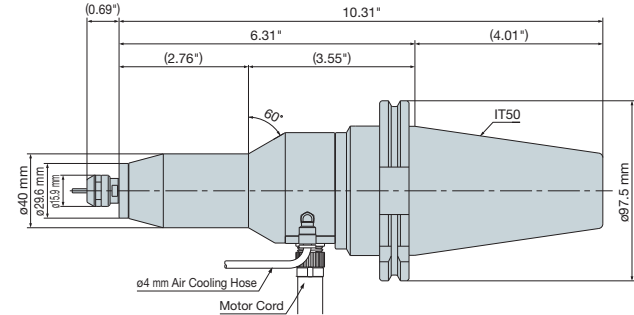
HES510-BT50



HES510-NT50 (M)



HES510-CAT50



HES510-IT50

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
1951	HES510-BT50	• Collet $\phi 1/8"$ (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	11.02 lb.	
1952	HES510-NT50		11.90 lb.	
1953	HES510-NT50M		11.90 lb.	
1954	HES510-CAT50		11.02 lb.	
1955	HES510-IT50		11.02 lb.	

*NT50M—Retention knob threads are metric.

AMERICAN ROTARY TOOLS CO.

Toll Free USA Tel: (800) 645-3824

Caution

- If the machine's main spindle is rotated by mistake, the Emergency Connector on the motor is designed to separate. In order for the Emergency Connector to function as designed it must be set and positioned correctly. Please refer to the owner's manual for proper installation and check the integrity of the Emergency Connector and suspension prior to each use.

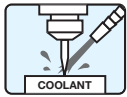
*For dimensions of taper shanks, please see page 4-p46, 47.

*Order by catalog number.

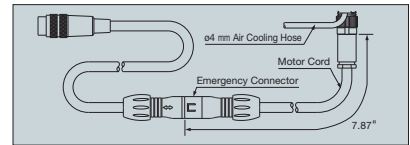
4-p5

1	EmaxEVO
	ESPERT
	ROTUS
	ECONOM
	IMPULSE
	PRESTO II
	SHEENUS neo
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2	iSpeed
	E2530
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"HES510" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



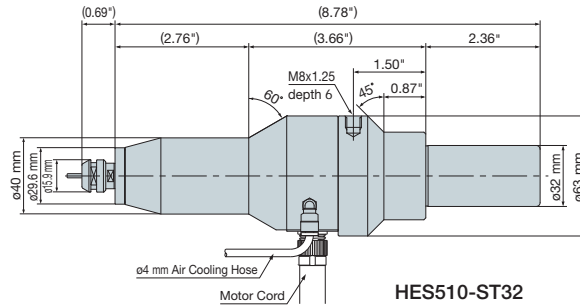
Note : Motor Cord is sold separately.



*All HES Series Spindles incorporate an emergency connector

HES510-ST32

ST32

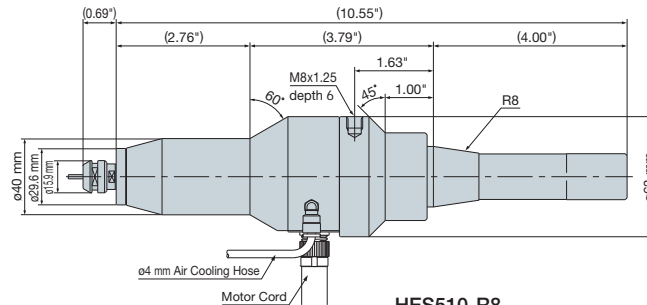


HES510-ST32

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
9197	HES510-ST32	• Collet $\phi 1/8"$ (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	5.29 lb.	

HES510-R8

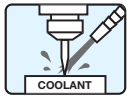
R8



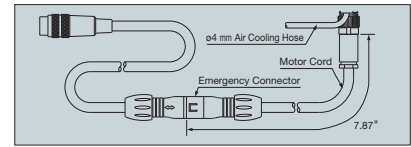
HES510-R8

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
9196	HES510-R8	• Collet $\phi 1/8"$ (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	5.29 lb.	

"HES510" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



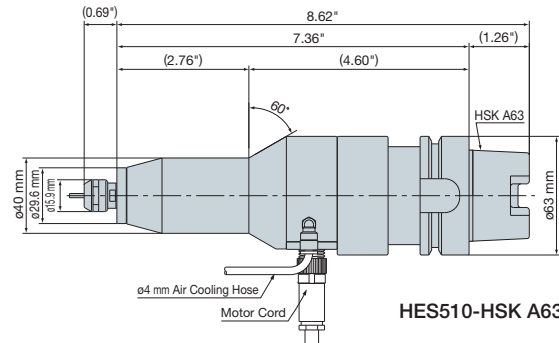
Note : Motor Cord is sold separately.



*All HES Series Spindles incorporate an emergency connector

HES510-HSK A63

HSK A63

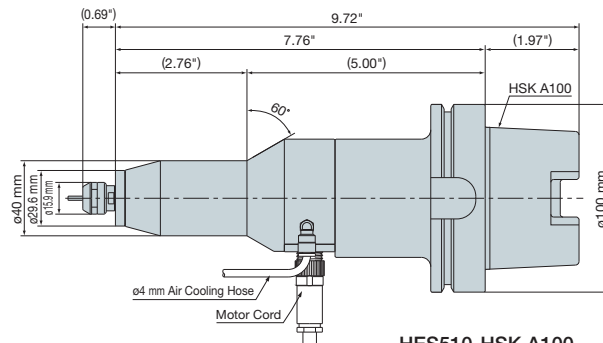


HES510-HSK A63

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
1956	HES510-HSK A63	• Collet ø1/8" (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	5.95 lb.	

HES510-HSK A100

HSK A100



HES510-HSK A100

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
1957	HES510-HSK A100	• Collet ø1/8" (CHK-3.175) : 1 pc. • Collet Nut (K-265) : 1 pc. • Wrench (12 x 14) : 2 pcs.	9.70 lb.	

Caution

- If the machine's main spindle is rotated by mistake, the Emergency Connector on the motor is designed to separate. In order for the Emergency Connector to function as designed it must be set and positioned correctly. Please refer to the owner's manual for proper installation and check the integrity of the Emergency Connector and suspension prior to each use.

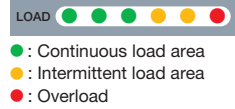
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"HES510" CONTROL UNIT

- AC100-240V for international operation
- 5,000~50,000 min⁻¹(rpm)
- Maximum Output 350W

CAT. No. **9775** **CONTROL UNIT NE211** **50,000 min⁻¹(rpm)**

*: Load Meter



External Input-Output Connector A (D-SUB25 Female)

External Input-Output Connector B (D-SUB15 Female)

Motor Connector

Air Output Joint ø6 mm

Air Input Joint ø6 mm

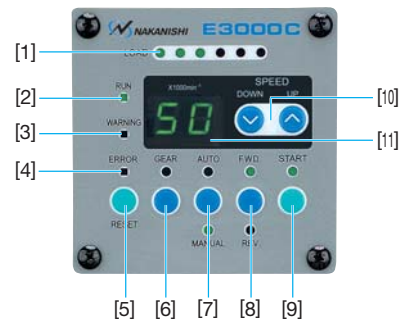
Power Switch

Communicate Connector

Inlet with Power Fuse



- [1] Load Meter*
- [2] Running LED (RUN)
- [3] Warning LED (WARNING)
- [4] Error LED (ERROR)
- [5] Error Reset Switch (RESET)
- [6] Gear Setting Switch (GEAR)
- [7] Control Switch (AUTO/MANUAL)
- [8] Rotating Direction Selector Switch (FWD./REV.)
- [9] Start Switch (START)
- [10] Motor Speed Adjustment Switch (SPEED)
- [11] Display



Specifications

Model	: NE211
Power Source	: AC120V
Motor Speed	: 5,000-50,000 min ⁻¹ (rpm)
Max. Output Power	: 350W
Power Consumption	: 1.8A
Air Flow Volume	: 1.0CFM (36-44PSI)
Weight	: 6 lb. 2.77 oz.
Dimensions	: W3.46" x D5.43" x H9.37"

E3000 Control Unit

CAT. No.	Plug Type	Model	Standard Equipment · Accessories	Price
9775	120V	NE211	<ul style="list-style-type: none"> • Power Cord : 6 ft • Air Hose with filter • Reducer • Air Plug (Provided) • Connector Cap (Provided) • Bracket • Power Cord Grip • Screw • Rubber Pad • Fuse (T6.3AL) 250V: 2 pcs. 	

*Please refer to Technical Data 7-p2~p6 in detail about External Input-Output Connector.

*The NE211-OP1 {CAT.No. : 9778 (120V)} is an Optional Safety Version with an "Emergency Stop Input" and "Safety Relay".

*AC100-240V for international operation. Please check the power source plug type and order accordingly.

● Power Source Plug

Plug Type	Main Usable Area	Product	Plug Type	Main Usable Area	Product
For 100V (A type)	For Japan		For 200V (C type)	Without Plug	
For 120V (B type)	For U.S.A. and Canada		For 230V (D type)	For Europe	

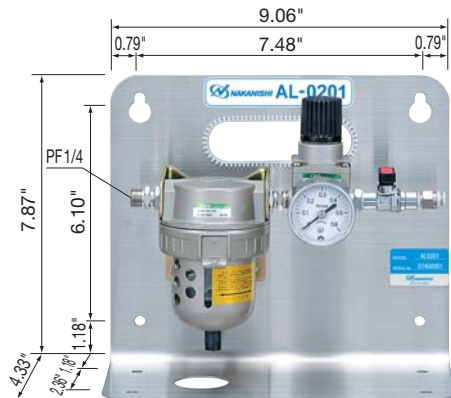
AMERICAN ROTARY TOOLS CO. Toll Free USA Tel: (800) 624-2212

“HES510” AIR LINE KIT & MOTOR CORD

AMERICAN ROTARY TOOLS CO.

Toll Free USA Tel: (800) 624-2212

CAT. No. AL0201 AIR LINE KIT AL-0201




- The AL-0201 is a **Clean air** supply unit. Dust and moisture in the compressed air are eliminated by the filter in the first stage and the regulator provides accurate and stable air to the control unit.

Air Line Kit (For ø6 mm Hose · Filter Mesh 0.3 µm)

CAT. No.	Model	Standard Equipment · Accessories	Price
AL0201	AL-0201	<ul style="list-style-type: none"> • Air Filter • Air Regulator • Air Pressure Gauge • Air ON-OFF Valve • Hose for Piping (K-275) : 6 ft 	

MOTOR CORD

Product	CAT. No.	Description · Model	Length	Standard Equipment · Accessories	Fit to	Price
	9248	Motor Cord 4M EMCD-810-4M	13 ft	<ul style="list-style-type: none"> • Air Cooling Hose : ø4 mm • Reducer • Plug Cap 	HES510	
	9249	Motor Cord 6M EMCD-810-6M	19 ft			
	9250	Motor Cord 8M EMCD-810-8M	26 ft			

CONTROL PANEL EXTENSION CORD

Control Panel Extension Cord

CAT. No.	Model	For use with	Price
8407	E3000-PEX-4	NE211	

HES Purchasing Example



HES Purchasing Example

Description	CAT. No.	Model	Price
Spindle with CAT40	1949	HES510-CAT40	
Control Unit	9775	NE211	
13 ft Motor Cord	9248	EMCD-810-4M	
Air Line Kit	AL0201	AL-0201	
Total			

* Order by catalog number.

4-p9

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AIR LINE KIT
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PARTS
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ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE

“HES810”

- The Ultra-Precision, High-Speed HES810 spindles allow you to use your existing equipment for a much larger variety of operations. Conventional milling machines and machining centers can now do high-speed machining, small diameter drilling and milling with extremely good surface finishes with the HES810. ● Max. Output 350W

HES810 Features

- **20,000-80,000 min⁻¹(rpm)**
- **Maximum Output 350W**
The HES810 motor is a brushless DC motor that utilizes hall elements and rare-earth magnets to achieve max. output 350W in a very compact size.
- **Ceramic Bearings**
The spindle uses a double pair of ceramic bearings in the front and in the rear. This arrangement maximizes both radial and axial rigidity to insure extremely high-precision cutting.
The motor also uses ceramic bearings to maximize life expectancy.
- **Smooth Rotation**
The absence of a commutator and the use of a photo coupler sending a feedback signal of 48 pulses per revolution result in very smooth rotation with low vibration throughout the speed range.
- **One-Piece motor and spindle construction**
The motor and spindle are built as a single unit minimizing size and weight and allowing usage on a very wide variety of machines.
- **Emergency Connector**
The system incorporates an emergency, breakaway connector to help prevent system damage in case the machine's main spindle is rotated accidentally.
- **Excellent Durability by air-cooling system**
Air-cooling motor uses a small volume of air (0.53 CFM) to prevent heat buildup and allow long, continuous operation.
- **Best for small diameter drilling and milling**
Less than $\phi 0.08''$ ($\phi 2$ mm) small diameter drilling and milling with extremely good surface finishes, using a high-speed brushless motor.

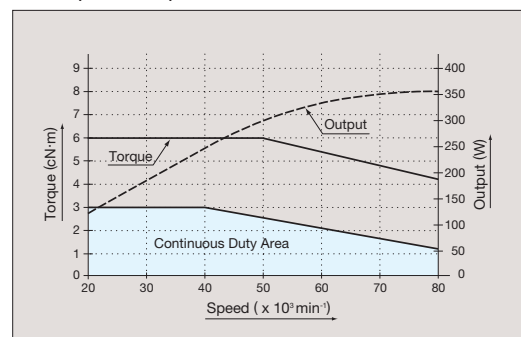
- **Cooling Air**
Clean dry air is required to cool the motor and protect the spindle from contaminants. Please use a filter and regulator.
(Proper air pressure 28-42PSI) (Use Air Line Kit AL-0201)
- **Large Variety of Tapers Available**
BT, NT, CAT, ST32 and HSK A tapers are available.
- **Protection Circuit**
The control unit is compact and lightweight. It features a protection circuit to stop the motor automatically in case of overload ensuring safe and smooth operation.



HES810 Specifications

- Speed 20,000-80,000 min⁻¹(rpm)
- Ideal Operating Speed 50,000-80,000 min⁻¹(rpm)
- Max. Output Power 350W
- Spindle Accuracy Within 1 μ m
- Standard Size Collet (CHA-3.175) $\phi 1/8''$
- < Optional >
- Air Line Kit (AL-0201) For Control Unit NE260
- Collet (CHA-□□) $\phi 0.5$ mm- $\phi 4.0$ mm
(See Page 6-p2 for details)
- Motor Cord (EMCD-810-□□) Length 13 ft (9248) / 19 ft (9249) / 26 ft (9250)
Provided with Air Cooling Hose $\phi 4$ mm

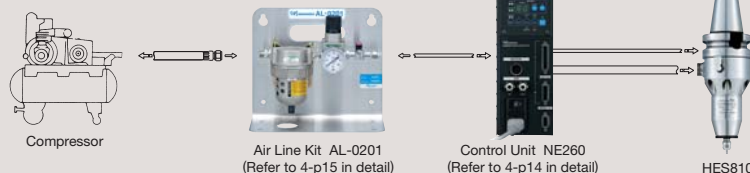
● Torque & Output Power Characteristic of HES810



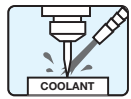
Note : Motor Cord is sold separately.

HES810 Connection Drawing

The HES810 motor and spindle require dry, clean, regulated air. Please refer to the drawing to the right for proper components. Air Line Kit AL-0201 supplies clean dry air to the control unit through the filter and the regulator.

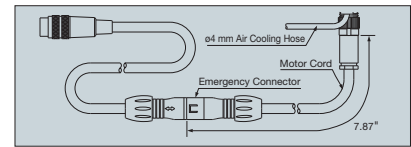


"HES810" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



HES Series can be used in conjunction with water or oil based coolants.

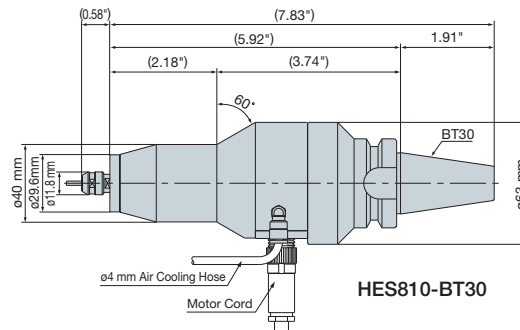
Note : Motor Cord is sold separately.



*All HES Series Spindles incorporate an emergency connector

HES810-BT30

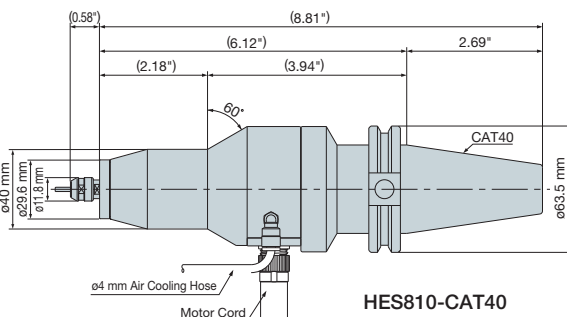
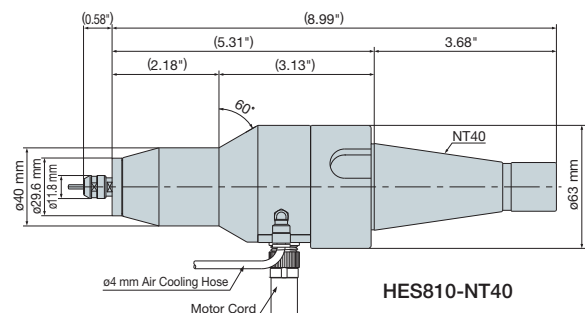
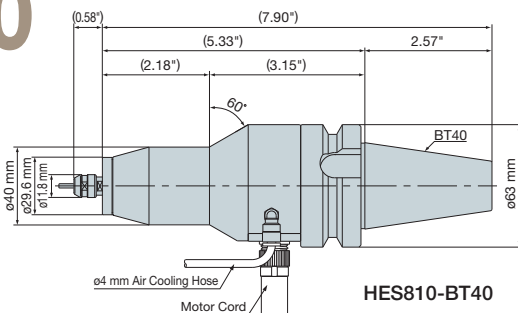
30



CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
7611	HES810-BT30	<ul style="list-style-type: none"> • Collet $\phi 1/8"$ (CHA-3.175) : 1 pc. • Collet Nut (CHN-A) : 1 pc. • Wrench (8 x 5), (9 x 11) : 1 pc. each 	4.41 lb.	

HES810-BT40 / NT40 / CAT40

40



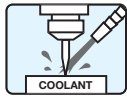
CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
7612	HES810-BT40	<ul style="list-style-type: none"> • Collet $\phi 1/8"$ (CHA-3.175) : 1 pc. • Collet Nut (CHN-A) : 1 pc. • Wrench (8 x 5), (9 x 11) : 1 pc. each 	4.85 lb.	
7613	HES810-NT40		5.07 lb.	
9201	HES810-CAT40		5.28 lb.	

*For dimensions of taper shanks, please see page 4-p46.

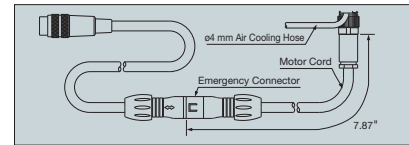
*Order by catalog number. 4-p11

1	EmaxEVO
	ESPERT
	ROTUS
	ECONOM
	IMPULSE
	PRESTO II
	SHEENUS neo
	SONIC CUTTER
2	iSpeed
	E2530
	E2550
	E3000
	E3200
	E4000
3	MA SERIES
	$\phi 0.897"$
	$\phi 1.0"$
	$\phi 0.98"$
	$\phi 1.18"$
	MS SERIES
	$\phi 0.75"$
	$\phi 0.79"$
	$\phi 0.87"$
	$\phi 0.91"$
	$\phi 1.0"$
	$\phi 0.98"$
	$\phi 1.18"$
	HIGH SPEED
	AMX
4	HES
	HTS
	HPS
	SMS
	PL
5	AIR LINE KIT
6	PARTS
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"HES810" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE



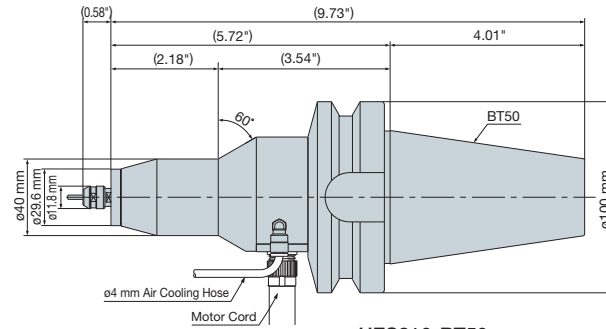
Note : Motor Cord is sold separately.



*All HES Series Spindles incorporate an emergency connector

HES810-BT50

50

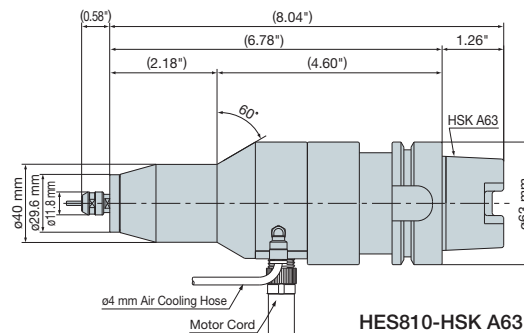


HES810-BT50

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
7614	HES810-BT50	<ul style="list-style-type: none"> Collet $\phi 1/8"$ (CHA-3.175) : 1 pc. Collet Nut (CHN-A) : 1 pc. Wrench (8 x 5), (9 x 11) : 1 pc. each 	10.80 lb.	

HES810-HSK A63

HSK A63

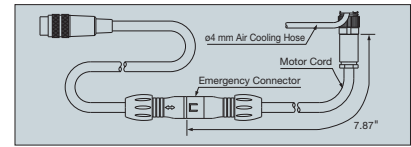


HES810-HSK A63

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
7615	HES810-HSK A63	<ul style="list-style-type: none"> Collet $\phi 1/8"$ (CHA-3.175) : 1 pc. Collet Nut (CHN-A) : 1 pc. Wrench (8 x 5), (9 x 11) : 1 pc. each 	5.73 lb.	

AMERICAN ROTARY TOOLS CO. Toll Free USA Tel: (800) 624-2212

"HES810" ULTRA-PRECISION HIGH-SPEED MILLING SPINDLE

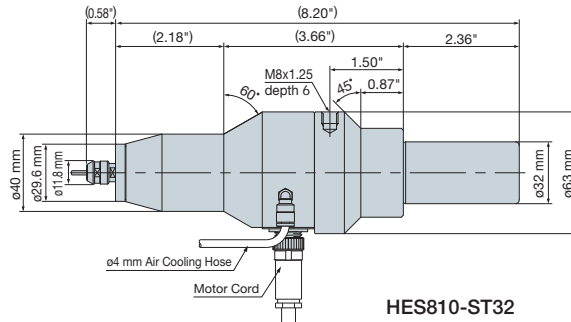


Note : Motor Cord is sold separately.

*All HES Series Spindles incorporate an emergency connector

HES810-ST32

ST32



HES810-ST32

CAT. No.	Model	Standard Equipment · Accessories	Weight	Price
7616	HES810-ST32	<ul style="list-style-type: none"> • Collet $\phi 1/8"$ (CHA-3.175) : 1 pc. • Collet Nut (CHN-A) : 1 pc. • Wrench (8 x 5), (9 x 11) : 1 pc. each 	5.07 lb.	

Caution

- If the machine's main spindle is rotated by mistake, the Emergency Connector on the motor is designed to separate. In order for the Emergency Connector to function as designed it must be set and positioned correctly. Please refer to the owner's manual for proper installation and check the integrity of the Emergency Connector and suspension prior to each use.

1
EmaxEVO
ESPERT
ROTUS
ECONO
IMPULSE
PRESTO II
SHEENUS neo
SONIC CUTTER
2
iSpeed
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E2550
E3000
E3200
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HIGH SPEED
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4
HES
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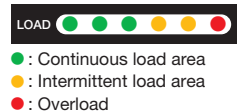
"HES810" CONTROL UNIT

- AC100-240V for international operation
- 1,000~80,000 min⁻¹(rpm)
- Maximum Output 350W

CAT. No. **8443** CONTROL UNIT **NE260**

80,000 min⁻¹(rpm)

*: Load Meter



External Input-Output Connector A (D-SUB25 Female)

External Input-Output Connector B (D-SUB15 Female)

Motor Connector

Air Output Joint ø6 mm

Air Input Joint ø6 mm

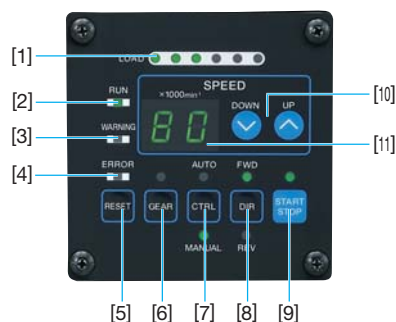
Power Switch

Communicate Connector

Inlet with Power Fuse



- [1] Load Meter*
- [2] Running LED (RUN)
- [3] Warning LED (WARNING)
- [4] Error LED (ERROR)
- [5] Error Reset Switch (RESET)
- [6] Gear Setting Switch (GEAR)
- [7] Control Switch (AUTO/MANUAL)
- [8] Rotating Direction Selector Switch (FWD./REV.)
- [9] Start Switch (START)
- [10] Motor Speed Adjustment Switch (SPEED)
- [11] Display



Specifications

Model	: NE260
Power Source	: AC120V
Motor Speed	: 1,000-80,000 min ⁻¹ (rpm)
Max. Output Power	: 350W
Power Consumption	: 1.8A
Air Flow Volume	: 1.0CFM (36-44PSI)
Weight	: 6 lb. 2.77 oz.
Dimensions	: W3.46" x D5.43" x H9.37"

E3200 Control Unit

CAT. No.	Plug Type	Model	Standard Equipment - Accessories	Price
8443	120V	NE260	<ul style="list-style-type: none"> • Power Cord : 6 ft • Air Hose with filter • Reducer • Air Plug (Provided) • Connector Cap (Provided) • Bracket • Power Cord Grip • Screw • Rubber Pad • Fuse (T6.3AL) 250V: 2 pcs. 	

*Please refer to Technical Data 7-p12~p17 in detail about External Input-Output Connector.

*AC100-240V for international operation. Please check the power source plug type and order accordingly.

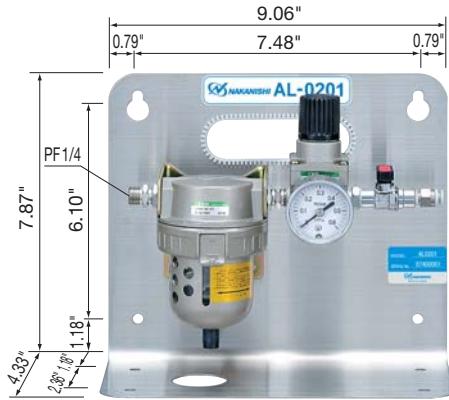
● Power Source Plug

Plug Type	Main Usable Area	Product
For 100V (A type)	For Japan	
For 120V (B type)	For U.S.A. and Canada	

Plug Type	Main Usable Area	Product
For 200V (C type)	Without Plug	
For 230V (D type)	For Europe	

"HES810" AIR LINE KIT & MOTOR CORD

CAT. No. AL0201 AIR LINE KIT AL-0201




● The AL-0201 is a **Clean air** supply unit. Dust and moisture in the compressed air are eliminated by the filter in the first stage and the regulator provides accurate and stable air to the control unit.

Air Line Kit (For ø6 mm Hose · Filter Mesh 0.3 µm)

CAT. No.	Model	Standard Equipment · Accessories	Price
AL0201	AL-0201	<ul style="list-style-type: none"> • Air Filter • Air Regulator • Air Pressure Gauge • Air ON-OFF Valve • Hose for Piping (K-275) : 6 ft 	

MOTOR CORD

Product	CAT. No.	Description · Model	Length	Standard Equipment · Accessories	Fit to	Price
	9248	Motor Cord 4M EMCD-810-4M	13 ft	<ul style="list-style-type: none"> • Air Cooling Hose : ø4 mm • Reducer • Plug Cap 	HES810	
	9249	Motor Cord 6M EMCD-810-6M	19 ft			
	9250	Motor Cord 8M EMCD-810-8M	26 ft			

CONTROL PANEL EXTENSION CORD

Control Panel Extension Cord

CAT. No.	Model	For use with	Price
8407	E3000-PEX-4	NE260	

HES Purchasing Example

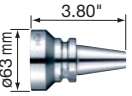
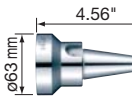
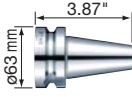
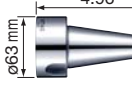
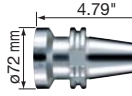
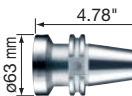
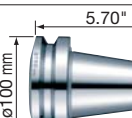
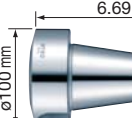
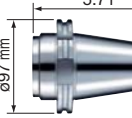
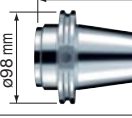
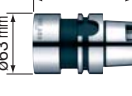
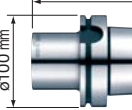


HES Purchasing Example

Description	CAT. No.	Model	Price
Spindle with CAT40	9201	HES810-CAT40	
Control Unit	8443	NE260	
13 ft Motor Cord	9248	EMCD-810-4M	
Air Line Kit	AL0201	AL-0201	
Total			

"HES SERIES" TAPER SHANKS

Taper Shanks for HES510 and HES810

Product	CAT. No.	Model	Description	Fit to	Price
	ASE 9148	HES510-BT30-SK	<ul style="list-style-type: none"> Type : BT30 Weight : 23.28 oz. 	HES510-BT30 HES810-BT30	
	ASE 9153	HES510-NT30-SK	<ul style="list-style-type: none"> Type : NT30 Weight : 24.69 oz. 	HES510-NT30	
	ASE 9154	HES510-NT30M-SK	<ul style="list-style-type: none"> Type : NT30M *Metric threads Weight : 24.69 oz. 	HES510-NT30M	
	ASE 9149	HES510-BT40-SK	<ul style="list-style-type: none"> Type : BT40 Weight : 27.87 oz. 	HES510-BT40 HES810-BT40	
	ASE 9155	HES510-NT40-SK	<ul style="list-style-type: none"> Type : NT40 Weight : 32.80 oz. 	HES510-NT40 HES810-NT40	
	ASE 9156	HES510-NT40M-SK	<ul style="list-style-type: none"> Type : NT40M *Metric threads Weight : 32.80 oz. 	HES510-NT40M	
	9191	HES510-IT40-SK	<ul style="list-style-type: none"> Type : IT40 Weight : 37.81 oz. 	HES510-IT40 HES810-IT40	
	ASE 9193	HES510-CAT40-SK	<ul style="list-style-type: none"> Type : CAT40 Weight : 38.20 oz. 	HES510-CAT40 HES810-CAT40	
	ASE 9150	HES510-BT50-SK	<ul style="list-style-type: none"> Type : BT50 Weight : 122.75 oz. 	HES510-BT50 HES810-BT50	
	ASE 9157	HES510-NT50-SK	<ul style="list-style-type: none"> Type : NT50 Weight : 135.80 oz. 	HES510-NT50	
	ASE 9158	HES510-NT50M-SK	<ul style="list-style-type: none"> Type : NT50M *Metric threads Weight : 136.16 oz. 	HES510-NT50M	
	9190	HES510-IT50-SK	<ul style="list-style-type: none"> Type : IT50 Weight : 103.56 oz. 	HES510-IT50	
	ASE 9192	HES510-CAT50-SK	<ul style="list-style-type: none"> Type : CAT50 Weight : 103.53 oz. 	HES510-CAT50	
	ASE 9152	HES510-HSK A63-SK	<ul style="list-style-type: none"> Type : HSK A63 Weight : 43.03 oz. 	HES510-HSK A63 HES810-HSK A63	
	ASE 9151	HES510-HSK A100-SK	<ul style="list-style-type: none"> Type : HSK A100 Weight : 102.65 oz. 	HES510-HSK A100	

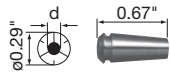
*HES510-R8-SK (495.00), HES510-ST32-SK (495.00) are available.

4-p16 *For dimensions of taper shanks, please see page 4-p46, 47.

* Order by catalog number.

< PARTS > COLLET

CHA Group

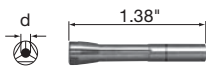


Fit to : K-263
: CHN-A

Fit to
AMS-1200 · AMS-1210 · AMS-1500 · AMS-1501 · AMS-250 · ABS-800
BM-319 · BM-320 · BM-320F · BM-322 · BM-322FL · BM-322FR · BM-325
MS-19 · MS-20 · MS-22 · MSS-19 · MSS-20 · MSS-22 · NR-3080S · NRA-5080 · NR-320
PS20-70/120 · PS20S-70 · PSA23-80/130 · PSA23S-80 · PMS-3020A · BANTAM 250
PLANET 850 · PLANET 1500 · PLANET 2000 · SMS · HTS · EM20-S6000 · EM25-S6000
EMS-3060A · HES810 · HPS500

CAT. No.	Model	Inside Diameter d	Price
91405	CHA-0.5	ø0.5	
91406	CHA-0.6	ø0.6	
91407	CHA-0.7	ø0.7	
RA11805	CHA-0.8	ø0.8	
RA11804	CHA-0.9	ø0.9	
RA11806	CHA-1.0	ø1.0	
RA11807	CHA-1.1	ø1.1	
RA11808	CHA-1.2	ø1.2	
RA11803	CHA-1.3	ø1.3	
RA11815	CHA-1.4	ø1.4	
RA11814	CHA-1.5	ø1.5	
RA11809	CHA-1.6	ø1.6	
91417	CHA-1.7	ø1.7	
RA11810	CHA-1.8	ø1.8	
RA11822	CHA-1.9	ø1.9	
RA11811	CHA-2.0	ø2.0	
RA11831	CHA-2.1	ø2.1	
91422	CHA-2.2	ø2.2	
91423	CHA-2.3	ø2.3	
RA11812	CHA-2.35	ø2.35	
RA11824	CHA-2.4	ø2.4	
RA11821	CHA-2.5	ø2.5	
RA11826	CHA-2.6	ø2.6	
91427	CHA-2.7	ø2.7	
RA11828	CHA-2.8	ø2.8	
RA11829	CHA-2.9	ø2.9	
RA11813	CHA-3.0	ø3.0	
RA11830	CHA-3.1	ø3.1	
RA11818	CHA-3.175	ø1/8"	
91432	CHA-3.2	ø3.2	
91433	CHA-3.3	ø3.3	
91434	CHA-3.4	ø3.4	
RA11823	CHA-3.5	ø3.5	
91436	CHA-3.6	ø3.6	
91437	CHA-3.7	ø3.7	
91438	CHA-3.8	ø3.8	
91439	CHA-3.9	ø3.9	
RA11819	CHA-4.0	ø4.0	

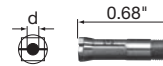
CHB Group



Fit to
NRR-2651 · NRR-3060 · NR40-5100 ATC

CAT. No.	Model	Inside Diameter d	Price
92820	CHB-2.0	ø2.0	
92830	CHB-3.0	ø3.0	
92893	CHB-3.175	ø1/8"	
92840	CHB-4.0	ø4.0	

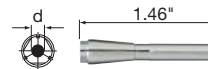
CHC Group



Fit to
IC-300 · KC-300 · EIC-300 · EKC-300 · IC-E · KC-E

CAT. No.	Model	Inside Diameter d	Price
90416	CHC-1.6	ø1.6	
90492	CHC-2.35	ø2.35	
90430	CHC-3.0	ø3.0	
90493	CHC-3.175	ø1/8"	

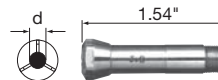
CHF Group



Fit to
NR-3080

CAT. No.	Model	Inside Diameter d	Price
91730	CHF-3.0	ø3.0	
91793	CHF-3.175	ø1/8"	

CHG Group



Fit to
HG-200 · NR-301 · EH-400

CAT. No.	Model	Inside Diameter d	Price
RA11777	CHG-1.0	ø1.0	
RA11778	CHG-1.5	ø1.5	
RA11766	CHG-1.6	ø1.6	
RA11780	CHG-2.0	ø2.0	
RA11771	CHG-2.35	ø2.35	
RA11781	CHG-2.5	ø2.5	
RA11772	CHG-3.0	ø3.0	
RA11452	CHG-3.175	ø1/8"	
RA11697	CHG-4.0	ø4.0	
RA11698	CHG-4.76	ø4.76	
RA11709	CHG-5.0	ø5.0	
RA11773	CHG-6.0	ø6.0	
RA11714	CHG-6.35	ø1/4"	

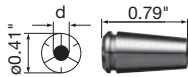
CHH Group



Fit to
IH-300 · IR-310 · EHL-401 · EHR-401 · EHR-500 · VH-E

CAT. No.	Model	Inside Diameter d	Price
RE11729	CHH-1.0	ø1.0	
90615	CHH-1.5	ø1.5	
RE11659	CHH-1.6	ø1.6	
RE11734	CHH-2.0	ø2.0	
RE11625	CHH-2.35	ø2.35	
90625	CHH-2.5	ø2.5	
RE11739	CHH-3.0	ø3.0	
RE11630	CHH-3.175	ø1/8"	

CHK Group



Fit to : K-265
: CHN-B

■ Fit to
NR-302 · ENR-302

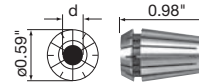
■ Fit to
ABS-70P · ABS-400 · AMX-50 · AMX-65 (1/1 Ratio) · AMX-80 (1/1 Ratio) · EM30-S6000
EMA-3020K · EMS-3041 · EMS-3045 · EMS-3052 · EMS-3056 · EMS-3046-J4 · EMS-3057-J4
EMS-6040 · EMS-6040K · EMS-3060K · EMR-3008K · MS-23 · MSS-25 · MSSH-25 · MST-23
MSTT-23 · NR-2351 · NR-2532 · NR-H2532 · NR-2551 · NR-H2551 · NR-303 · NR-303P
NR-311 · NR-3060S · NR-403E · NR-453E · NRAF-5080 · NRL-300 · NRL-300E · PMA-3013K
PMR-3005K · PMS-3020K · PS23-80/130 · PS23S-80 · PSA25-90/140 · PSA25S-90 · PSA30-100/160
PSA30S-100 · PSA35-120/180 · PSA35S-120 · RAS-101 · RAS-151E · RAX-271E · RAX-71E
RAS-2511 · RAS-H2511 · FG-01S · PLANET 400 · HES510 · HPS250

*High precision type

CAT. No.	Model	Inside Diameter d	Price
PL42665	CHK-0.5	ø0.5	
91506	CHK-0.6	ø0.6	
PL42667	CHK-0.7	ø0.7	
PL42668	CHK-0.8	ø0.8	
PL42692	CHK-0.9	ø0.9	
PL42691	CHK-1.0	ø1.0	
PL42699	CHK-1.1	ø1.1	
PL42682	CHK-1.2	ø1.2	
PL42693	CHK-1.3	ø1.3	
PL42700	CHK-1.4	ø1.4	
PL42695	CHK-1.5	ø1.5	
PL42696	CHK-1.6	ø1.6	
PL42709	CHK-1.7	ø1.7	
PL42698	CHK-1.8	ø1.8	
91519	CHK-1.9	ø1.9	
PL42672	CHK-2.0	ø2.0	
PL42681	CHK-2.1	ø2.1	
PL42662	CHK-2.2	ø2.2	
91523	CHK-2.3	ø2.3	
PL42690	CHK-2.35	ø2.35	
PL42710	CHK-2.4	ø2.4	
PL42663	CHK-2.5	ø2.5	
PL42712	CHK-2.6	ø2.6	
PL42617	CHK-2.7	ø2.7	
PL42694	CHK-2.8	ø2.8	
PL42689	CHK-2.9	ø2.9	
PL42669	CHK-3.0	ø3.0	
91597	CHK-3.0AA*	ø3.0	
PL42670	CHK-3.1	ø3.1	
PL42685	CHK-3.175	ø1/8"	
91598	CHK-3.175AA*	ø1/8"	
91532	CHK-3.2	ø3.2	
PL42705	CHK-3.3	ø3.3	
PL42701	CHK-3.4	ø3.4	
PL42707	CHK-3.5	ø3.5	
PL42706	CHK-3.6	ø3.6	
91537	CHK-3.7	ø3.7	
PL42702	CHK-3.8	ø3.8	
91539	CHK-3.9	ø3.9	
PL42678	CHK-4.0	ø4.0	
91599	CHK-4.0AA*	ø4.0	
PL42711	CHK-4.1	ø4.1	
91542	CHK-4.2	ø4.2	
PL42671	CHK-4.3	ø4.3	
PL42673	CHK-4.4	ø4.4	
PL42687	CHK-4.5	ø4.5	
91546	CHK-4.6	ø4.6	
PL42674	CHK-4.7	ø4.7	
PL42680	CHK-4.76	ø4.76	
91548	CHK-4.8	ø4.8	
91549	CHK-4.9	ø4.9	
PL42676	CHK-5.0	ø5.0	
PL42677	CHK-5.1	ø5.1	
PL42708	CHK-5.2	ø5.2	
91553	CHK-5.3	ø5.3	
PL42703	CHK-5.4	ø5.4	
PL42704	CHK-5.5	ø5.5	
PL42679	CHK-5.6	ø5.6	
91557	CHK-5.7	ø5.7	
91558	CHK-5.8	ø5.8	

CAT. No.	Model	Inside Diameter d	Price
PL42697	CHK-5.9	ø5.9	
PL42686	CHK-6.0	ø6.0	
91600	CHK-6.0AA*	ø6.0	
PL42675	CHK-6.35	ø1/4"	
91601	CHK-6.35AA*	ø1/4"	

CHL Group



Fit to : CHN-L

■ Fit to
AMX-65 (1/3 · 1/9 Ratio) · PSA40-140/200 · PSA40S-140 · PSA45-160/220
PSA45S-160 · PSA50-180/240 · PSA50S-180

CAT. No.	Model	Inside Diameter d	Price
91610	CHL-1.0	ø1.0	
91615	CHL-1.5	ø1.5	
91620	CHL-2.0	ø2.0	
91692	CHL-2.35	ø2.35	
91625	CHL-2.5	ø2.5	
91630	CHL-3.0	ø3.0	
91693	CHL-3.175	ø1/8"	-----
91635	CHL-3.5	ø3.5	
91640	CHL-4.0	ø4.0	-----
91645	CHL-4.5	ø4.5	
91650	CHL-5.0	ø5.0	
91655	CHL-5.5	ø5.5	
91660	CHL-6.0	ø6.0	-----
91696	CHL-6.35	ø1/4"	
91665	CHL-6.5	ø6.5	
91670	CHL-7.0	ø7.0	
91675	CHL-7.5	ø7.5	
91680	CHL-8.0	ø8.0	

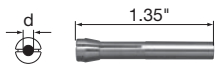
■ indicates Hand Grinder use
■ indicates Machine Spindle use

* Order by catalog number. 6-p3

1	EMAXEVO
ESPERT	
ROTUS	
ECONOM	
IMPULSE	
PRESTO II	
SHEENUS neo	
SONIC CUTTER	
2	iSpeed
E2530	
E2550	
E3000	
E3200	
E4000	
3	MA SERIES
ø0.897"	
ø1.0"	
ø0.98"	
ø1.18"	
MS SERIES	
ø0.75"	
ø0.79"	
ø0.87"	
ø0.91"	
ø1.0"	
ø0.98"	
ø1.18"	
HIGH SPEED	
AMX	
4	HES
HTS	
HPS	
SMS	
PL	
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CHM Group



■ Fit to _____
MH-300 · BMH-300

■ Fit to _____
NR-600 · NR-601 · AMH-300 · AMH-301

CAT. No.	Model	Inside Diameter d	Price
RE11605	CHM-1.0	ø1.0	
RE11600	CHM-1.6	ø1.6	
RE11609	CHM-2.0	ø2.0	
RE11602	CHM-2.35	ø2.35	
RE10459	CHM-3.0	ø3.0	
RE11604	CHM-3.175	ø1/8"	

CHP Group

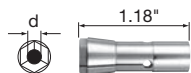


■ Fit to _____
ENR-420 ATC

■ Fit to _____
NRR-2650 · NR-260E ATC

CAT. No.	Model	Inside Diameter d	Price
AS72115	CHP-2.0	ø2.0	
AS72116	CHP-3.0	ø3.0	
AS72117	CHP-3.175	ø1/8"	

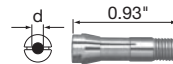
CHR Group



■ Fit to _____
NR-5040E ATC · NR-5041E ATC · NR50-5100 ATC

CAT. No.	Model	Inside Diameter d	Price
91920	CHR-2.0	ø2.0	
91930	CHR-3.0	ø3.0	
91993	CHR-3.175	ø1/8"	
91940	CHR-4.0	ø4.0	
91960	CHR-6.0	ø6.0	
91996	CHR-6.35	ø1/4"	

CHS Group

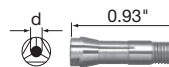


■ Fit to _____
ERA-270 · 45°, 90° Angle Type ECOMO · IMPULSE SERIES

■ Fit to _____
RA-200 · RA-271E · RA-2521 · RA-H2521

CAT. No.	Model	Inside Diameter d	Price
NK10216	CHS-0.8	ø0.8	
90509	CHS-0.9	ø0.9	
NK10218	CHS-1.0	ø1.0	
90511	CHS-1.1	ø1.1	
90512	CHS-1.2	ø1.2	
90513	CHS-1.3	ø1.3	
90514	CHS-1.4	ø1.4	
NK10219	CHS-1.5	ø1.5	
NK10220	CHS-1.6	ø1.6	
90517	CHS-1.7	ø1.7	
90518	CHS-1.8	ø1.8	
90519	CHS-1.9	ø1.9	
NK10221	CHS-2.0	ø2.0	
90521	CHS-2.1	ø2.1	
90522	CHS-2.2	ø2.2	
90523	CHS-2.3	ø2.3	
NK10215	CHS-2.35	ø2.35	
NK10224	CHS-2.4	ø2.4	
NK10222	CHS-2.5	ø2.5	
90526	CHS-2.6	ø2.6	
90527	CHS-2.7	ø2.7	
90528	CHS-2.8	ø2.8	
NK10209	CHS-2.9	ø2.9	
NK10223	CHS-3.0	ø3.0	
NK10210	CHS-3.175	ø1/8"	

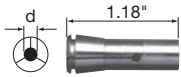
CHSS Group



■ Fit to _____
EMA-3020S · PMA-3013S

CAT. No.	Model	Inside Diameter d	Price
93010	CHSS-1.0	ø1.0	
93015	CHSS-1.5	ø1.5	
93020	CHSS-2.0	ø2.0	
93092	CHSS-2.35	ø2.35	
93025	CHSS-2.5	ø2.5	
93030	CHSS-3.0	ø3.0	
93093	CHSS-3.175	ø1/8"	

CH5 Group

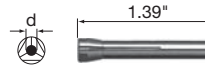


Fit to : K-218
: CHN-02

Fit to
PLANET 550 · BANTAM 150 · AMS-150R · AMS-150L · AMS-600
AMS-20R · AMS-20L · AMS-50R · AMS-50L · MSTN-23 · NR-310 · FG-02S

CAT. No.	Model	Inside Diameter d	Price
91203	CH5-0.3	ø0.3	
91204	CH5-0.4	ø0.4	
91205	CH5-0.5	ø0.5	
PL11464	CH5-0.6	ø0.6	
PL11465	CH5-0.7	ø0.7	
PL11467	CH5-0.8	ø0.8	
PL11468	CH5-0.9	ø0.9	
PL11488	CH5-1.0	ø1.0	
PL11469	CH5-1.1	ø1.1	
PL11470	CH5-1.2	ø1.2	
91213	CH5-1.3	ø1.3	
91214	CH5-1.4	ø1.4	
PL11494	CH5-1.5	ø1.5	
PL11495	CH5-1.6	ø1.6	
91217	CH5-1.7	ø1.7	
PL11498	CH5-1.8	ø1.8	
91219	CH5-1.9	ø1.9	
PL11489	CH5-2.0	ø2.0	
91221	CH5-2.1	ø2.1	
PL11492	CH5-2.2	ø2.2	
91223	CH5-2.3	ø2.3	
91292	CH5-2.35	ø2.35	
91224	CH5-2.4	ø2.4	
PL10672	CH5-2.5	ø2.5	
91226	CH5-2.6	ø2.6	
PL10683	CH5-2.7	ø2.7	
PL10670	CH5-2.8	ø2.8	
91229	CH5-2.9	ø2.9	
PL11490	CH5-3.0	ø3.0	
91231	CH5-3.1	ø3.1	
PL11466	CH5-3.175	ø1/8"	
91232	CH5-3.2	ø3.2	
91233	CH5-3.3	ø3.3	
PL10671	CH5-3.4	ø3.4	
PL10673	CH5-3.5	ø3.5	
PL10674	CH5-3.6	ø3.6	
PL10682	CH5-3.7	ø3.7	
91238	CH5-3.8	ø3.8	
91239	CH5-3.9	ø3.9	
PL10677	CH5-4.0	ø4.0	
91241	CH5-4.1	ø4.1	
91242	CH5-4.2	ø4.2	
PL10681	CH5-4.3	ø4.3	
PL10679	CH5-4.4	ø4.4	
PL10678	CH5-4.5	ø4.5	
91246	CH5-4.6	ø4.6	
91247	CH5-4.7	ø4.7	
91294	CH5-4.76	ø4.76	
91248	CH5-4.8	ø4.8	
91249	CH5-4.9	ø4.9	
PL10676	CH5-5.0	ø5.0	
91251	CH5-5.1	ø5.1	
91252	CH5-5.2	ø5.2	
91253	CH5-5.3	ø5.3	
91254	CH5-5.4	ø5.4	
91255	CH5-5.5	ø5.5	
91256	CH5-5.6	ø5.6	
91257	CH5-5.7	ø5.7	
91258	CH5-5.8	ø5.8	
91259	CH5-5.9	ø5.9	
PL11502	CH5-6.0	ø6.0	
PL10675	CH5-6.35	ø1/4"	

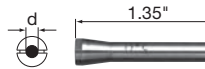
CH6 Group



Fit to
ABS-1600

CAT. No.	Model	Inside Diameter d	Price
90830	CH6-3.0	ø3.0	
90893	CH6-3.175	ø1/8"	

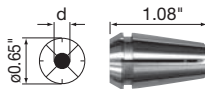
CH8 Group



Fit to
RA-100 · RA-151E · RA-2511 · RA-H2511

CAT. No.	Model	Inside Diameter d	Price
PL11539	CH8-0.8	ø0.8	
91009	CH8-0.9	ø0.9	
PL11540	CH8-1.0	ø1.0	
PL11531	CH8-1.1	ø1.1	
PL11536	CH8-1.2	ø1.2	
PL11533	CH8-1.3	ø1.3	
PL11555	CH8-1.4	ø1.4	
PL11556	CH8-1.5	ø1.5	
PL11517	CH8-1.6	ø1.6	
PL11568	CH8-1.7	ø1.7	
PL11569	CH8-1.8	ø1.8	
91019	CH8-1.9	ø1.9	
PL11574	CH8-2.0	ø2.0	
91021	CH8-2.1	ø2.1	
PL11532	CH8-2.2	ø2.2	
91023	CH8-2.3	ø2.3	
PL11521	CH8-2.35	ø2.35	
PL11522	CH8-2.4	ø2.4	
PL11523	CH8-2.5	ø2.5	
PL11525	CH8-2.6	ø2.6	
91027	CH8-2.7	ø2.7	
PL11578	CH8-2.8	ø2.8	
91029	CH8-2.9	ø2.9	
PL11588	CH8-3.0	ø3.0	
PL10637	CH8-3.175	ø1/8"	

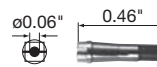
CH16 Group



Fit to
BMS-4020 · BMS-4020RA
BMS-4040 · BMS-4040RA

CAT. No.	Model	Inside Diameter d	Price
93130	CH16-3.0	ø3.0	
93193	CH16-3.175	ø1/8"	
93140	CH16-4.0	ø4.0	
93160	CH16-6.0	ø6.0	
93196	CH16-6.35	ø1/4"	
93180	CH16-8.0	ø8.0	

CH20-16



Fit to
PLANET 2000

CAT. No.	Model	Inside Diameter d	Price
PL10641	CH20-16	ø1/16"	

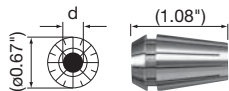
■ indicates Hand Grinder use
■ indicates Machine Spindle use

* Order by catalog number. 6-p5

1
EmaxEVO
ESPERT
ROTUS
ECONOM
IMPULSE
PRESTO II
SHEENUS neo
SONIC CUTTER
2
iSpeed
E2530
E2550
E3000 E3200
E4000
3
MA SERIES
ø0.897"
ø1.0"
ø0.98"
ø1.18"
MS SERIES
ø0.75"
ø0.79"
ø0.87"
ø0.91"
ø1.0"
ø0.98"
ø1.18"
HIGH SPEED
AMX
4
HES
HTS
HPS
SMS
PL
5
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6
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ER16-UP / AR16-AA

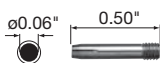


Fit to : CHN-E

Fit to _____
 AMX-80 (1/3 · 1/9 Ratio) · PSA60-200/260 · PSA60S-200

CAT. No.	Model	Fit to	Price
—	ER16-UP	REGO-FIX ER16-UP	Available in the market
—	AR16-AA	ALPS TOOL AR16-AA	

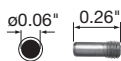
K-252



Fit to _____
 MFC-300S

CAT. No.	Model	Inside Diameter d	Price
RE10360	K-252	ø1/16"	

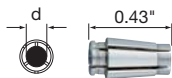
K-253



Fit to _____
 MFC-300M

CAT. No.	Model	Inside Diameter d	Price
RE10356	K-253	ø1/16"	

NKM6 Group (NK Micron Collet)



Fit to : CHN-6

Fit to _____
 Straight Type ECOMO

CAT. No.	Model	Inside Diameter d	Price
92030	NKM6-2.35	ø2.35
92092	NKM6-3.0	ø3.0	
92093	NKM6-3.175	ø1/8"	

Collet Nut CHN-A



Fit to : CHA

Fit to _____
 AMS-1501 · AMS-1210 · BM-319 · BM-320 · BM-320F · BM-322 · BM-322FR
 BM-322FL · BM-325 · EM20-S6000 · EM25-S6000 · EMS-3060A
 HES810 · HTS · HPSS500
 MSS-19 · MSS-20 · MSS-22 · NR-3080S · PMS-3020A · SMS401

CAT. No.	Model	Fit to	Price
2102	CHN-A	CHA

Collet Nut CHN-B (For EMS-6040/6040K)

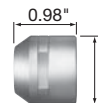


Fit to : CHK

Fit to _____
 EMS-6040 · EMS-6040K

CAT. No.	Model	Fit to	Price
AS12123	CHN-B	CHK

Collet Nut CHN-E

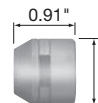


Fit to : ER16-UP
 AR16-AA

Fit to _____
 AMX-80 (1/3 · 1/9 Ratio) · PSA60-200/260 · PSA60S-200

CAT. No.	Model	Fit to	Price
PS12119	CHN-E	ER16-UP AR16-AA	

Collet Nut CHN-L



Fit to : CHL

Fit to _____
 AMX-65 (1/3 · 1/9 Ratio) · PSA40-140/200 · PSA40S-140 · PSA45-160/220
 PSA45S-160 · PSA50-180/240 · PSA50S-180

CAT. No.	Model	Fit to	Price
PS02121	CHN-L	CHL

Collet Nut CHN-6



Fit to : NKM6 Group

Fit to _____
 Straight Type ECOMO

CAT. No.	Model	Fit to	Price
2104	CHN-6	NKM6 Group

1

EmaxEVO

ESPERT

ROTUS

ECOMO

IMPULSE

PRESTO II

SHEENUS

neo

SONIC

CUTTER

2

iSpeed

E2530

E2550

E3000

E3200

E4000

3

MA

SERIES

ø0.897"

ø1.0"

ø0.98"

ø1.18"

MS

SERIES

ø0.75"

ø0.79"

ø0.87"

ø0.91"

ø1.0"

ø0.98"

ø1.18"

HIGH

SPEED

AMX

4

HES

HTS

HPS

SMS

PL

5

AIR LINE KIT

6

PARTS

7

TECHNICAL

DATA

8

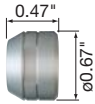
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Collet Nut CHN-02

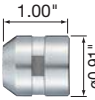


Fit to : CH5

Fit to _____
 NR-310 · AMS-20R · AMS-20L · AMS-50R · AMS-50L · MSTN-23 · FG-02S

CAT. No.	Model	Fit to	Price
AS32124	CHN-02	CH5	

Collet Nut CHN-16



Fit to : CH16

Fit to _____
 BMS-4020 · BMS-4020RA · BMS-4040 · BMS-4040RA

CAT. No.	Model	Fit to	Price
2161	CHN-16	CH16	

Collet Nut K-218



Fit to : CH5

Fit to _____
 PLANET 550 · BANTAM 150 · AMS-150R · AMS-150L · AMS-600

CAT. No.	Model	Fit to	Price
PL12120	K-218	CH5	

Collet Nut K-263

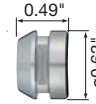


Fit to : CHA

Fit to _____
 NRA-5080 · NR-320 · ABS-800 · PS20-70/120 · PS20S-70 · PSA23-80/130
 PSA23S-80 · SMS400 · BANTAM 250 · PLANET 850 · PLANET 1500
 AMS-250 · AMS-1500 · MS-19 · 20 · 22

CAT. No.	Model	Fit to	Price
RA11820	K-263	CHA	

Collet Nut K-265

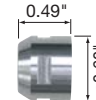


Fit to : CHK

Fit to _____
 EM30-S6000 · EMA-3020K · EMS-3041 · EMS-3046-J4 · EMS-3052
 EMS-3057-J4 · EMS-3060K · EMR-3008K · NR-403E · NR-453E
 NRL-300E · RAS-101 · RAS-151E · RAS-2510 · RAS-H2510 · RAX-271E
 RAX-71E · NR-2532 · NR-H2532 · NR-2511 · NR-H2511 · NR-2551
 NR-H2551 · NR-2351 · NRL-300 · NR-303 · NR-303P · NR-311 · NR-3060S
 MS-23 · MSS-23 · MST-23 · MSST-23 · MSS-25 · MSSH-25 · ABS-400
 AMX-50 · AMX-65 (1/1 Ratio) · AMX-80 (1/1 Ratio) · PMA-3013K
 PMR-3005K · PMS-3020K · PS23-80/130 · PS23S-80 · PSA25-90/140
 PSA25S-90 · PSA30-100/160 · PSA30S-100 · PSA35-120/180
 PSA35S-120 · ABS-70P · HES510 · PLANET 400 · FG-01S · HPS250

CAT. No.	Model	Fit to	Price
RA11900	K-265	CHK	

Collet Nut K-265A



Fit to : CHK

Fit to _____
 NRAF-5080

CAT. No.	Model	Fit to	Price
2158	K-265A	CHK	

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	E2550
	E3000
	E3200
	E4000
3	MA SERIES
	σ0.897"
	σ1.0"
	σ0.98"
	σ1.18"
	MS SERIES
	σ0.75"
	σ0.79"
	σ0.87"
	σ0.91"
	σ1.0"
	σ0.98"
	σ1.18"
	HIGH SPEED
	AMX
4	HES
	HTS
	HPS
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