

# MILLING CHUCK NEW Hi-POWER MILLING CHUCK





HSK C19

ST D5

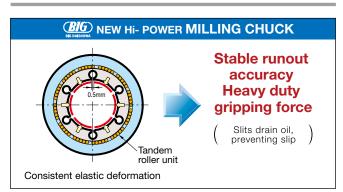
BIG CAPTO E41



- Highly rigid chuck for resistance against chatter.
- Supports endmilling with its heavy duty gripping force and high runout accuracy.



#### Reliable slit design ensures high accuracy

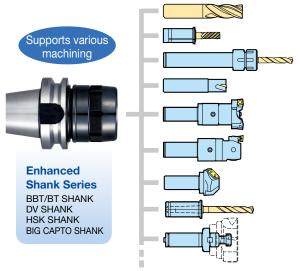


A unique BIG slit shape is adopted to achieve both the essential runout accuracy and gripping force which are the key elements of a milling chuck. Stable clamping is possible due to sufficient elastic deformation and the ability to remove oil film from the tool shank.



#### The Milling Chuck is also ideal as a basic holder

Allows the reliable use of straight collets as well as boring bars, arbors such as face milling cutters. Also optimal as a basic holder.







Since the Milling Chuck is a base-holder able to clamp various cylindrical shank tools, it is no exaggeration to say that a single choice will determine the performance of the machine tool. Versatile usability for various machining applications from heavy cuts to fine-cuts with superior gripping force, collapsibility, accuracy, rigidity and durability.

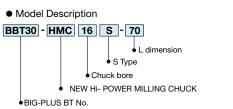
## NEW Hi-POWER MILLING CHUCK

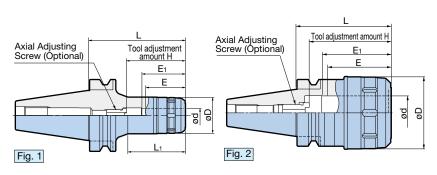
The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts.











#### [S Type] Slim nut to avoid interference

| BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional BT sp | oindles. |
|---|----------|
|---|----------|

| BIG-PLUS          | BT SHANK Model   | Eia  | ød | øD | L   | L <sub>1</sub> | Tool adjustment | Min. clamp | oing length    | Wrench   | Weight |
|-------------------|------------------|------|----|----|-----|----------------|-----------------|------------|----------------|----------|--------|
| BBT SHANK Model   | DI SHANK Model   | Fig. | Ød | טש | L   | L1             | amount H        | Е          | E <sub>1</sub> | vvrencn  | (kg)   |
| BBT30-HMC16S- 70% | BT30-HMC16S- 70% | 1    | 16 | 43 | 70  | 47             | 71              | 48         | 55             | FK45-50L | 0.78   |
| -HMC20S- 75       | -HMC20S- 75      |      | 20 | 50 | 75  | _              | 56 - 66         | 50         | 56             | FN45-50L | 0.93   |
| -HMC25S- 90       | -HMC25S- 90      | 2    | 25 | 55 | 90  | _              | 64 - 74         | 56         | 57             | FK52-55  | 1.12   |
| -HMC32S-105       | -HMC32S-105      |      | 32 | 62 | 105 | _              | 70 - 80         | 60         | 58             | FK58-62L | 1.41   |
| BBT40-HMC16S- 75% | BT40-HMC16S- 75% | 1    | 16 | 43 | 75  | 45             | 71              | 48         | 55             | FK45-50L | 1.3    |
| -120%             | -120※            | '    | 10 | 43 | 120 | 90             | / 1             | 40         | 55             |          | 1.8    |
| -HMC20S- 75       | -HMC20S- 75      |      |    |    | 75  | 46             | 69 - 79         | 50         | 56             |          | 1.4    |
| -105              | -105             | 1    | 20 | 50 | 105 | 75             |                 |            |                |          | 1.9    |
| -120              | -120             |      |    |    | 120 | 90             |                 |            |                |          | 2.1    |
| -HMC25S- 75       | -HMC25S- 75      |      |    |    | 75  | 47             |                 |            |                |          | 1.5    |
| -105              | -105             | 1    | 25 | 59 | 105 | 77             | 73 - 83         | 56         | 57             | FK58-62L | 2.1    |
| -135              | -135             |      |    |    | 135 | 107            |                 |            |                |          | 2.8    |
| -HMC32S- 90       | -HMC32S- 90      |      |    |    | 90  | _              | 71 - 81         |            |                |          | 2.0    |
| -105              | -105             | 2    | 32 | 68 | 105 | _              | 79 - 89         | 60         | 64             | FK68-75L | 2.3    |
| -135              | -135             |      |    |    | 135 | _              | 79 - 89         |            |                |          | 3.0    |

- Wrench and Axial Adjusting Screw are not included. Please order separately.
- 2. When using center through coolant;
  - Set screw with sealing compound applied (standard accessory) should be used to plug an air bleeding hole.
  - Oil hole type should be chosen when Straight Collet is required.
- 3. Please note that BBT(BT)40-HMC32S-90, ATC arm may interfere with the nut in some machines. (36mm from gauge line to nut.)
- 4. Tool adjustment amount "H" indicates the adjustment length with an Axial Adjusting Screw.
- 5. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.
- \*\* HMC16S requires the hex socket head screw (M8) for axial adjustment. However, please contact us if using for center through applications. H dimension is the max. tool shank length that can be inserted into the holder.





**DUAL CONTACT** 

MILLING CHUCK

[S Type] Slim nut to avoid interference

BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional **BT spindles**.

| BIG-PLUS                    |                | Ò    |    |      |     |                | Tool adjusts out         |              |                |          |             |
|-----------------------------|----------------|------|----|------|-----|----------------|--------------------------|--------------|----------------|----------|-------------|
| BIG-PLUS<br>BBT SHANK Model | BT SHANK Model | Fig. | ød | øD   | L   | L <sub>1</sub> | Tool adjustment amount H | iviin. ciamp | E <sub>1</sub> | Wrench   | Weight (kg) |
| BBT50-HMC16S-105%           |                |      |    |      | 105 | 57             | G.III G.III I            |              |                |          | 4.2         |
| -135%                       |                |      |    |      | 135 | 80             |                          |              |                |          | 4.6         |
| -165%                       | _              | 1    | 16 | 43   | 165 | 100            | 71                       | 48           | 55             | FK45-50L | 5.0         |
| -200%                       |                |      |    |      | 200 | 120            |                          |              |                |          | 5.8         |
| -HMC20S-105                 |                |      |    |      | 105 | 57             |                          |              |                |          | 4.3         |
| -135                        |                |      |    | 0 50 | 135 | 80             | 69 - 79                  |              |                |          | 4.8         |
| -165                        | _              | 1    | 20 |      | 165 | 100            |                          | 50           | 56             | FK45-50L | 5.4         |
| -200                        |                |      |    |      | 200 | 125            |                          |              |                |          | 6.0         |
| -300                        |                |      |    |      | 300 | 200            |                          |              |                |          | 8.3         |
| -HMC25S-105                 | _              |      | 25 | 59   | 105 | 57             | 76 - 86                  |              |                | FK58-62L | 4.5         |
| -135                        |                | 1    |    |      | 135 | 87             |                          | 56           | 57             |          | 5.2         |
| -165                        |                |      |    | 59   | 165 | 105            |                          | 50           | 37             |          | 5.9         |
| -200                        |                |      |    |      | 200 | 125            |                          |              |                |          | 7.5         |
| -HMC32S-105                 |                |      |    |      | 105 | 64             |                          |              |                |          | 4.6         |
| -135                        |                |      |    |      | 135 | 89             |                          |              |                |          | 5.4         |
| -165                        | _              | 1    | 32 | 68   | 165 | 105            | 88 - 98                  | 60           | 72             | FK68-75L | 6.4         |
| -200                        |                |      |    |      | 200 | 130            |                          |              |                |          | 7.4         |
| -300                        |                |      |    |      | 300 | 200            |                          |              |                |          | 11.5        |
| -HMC42S-105                 |                |      |    |      | 105 | 65             |                          |              |                |          | 5.2         |
| -135                        | _              |      |    |      | 135 | 94             |                          |              |                |          | 6.2         |
| -165                        |                | 1    | 42 | 85   | 165 | 123            | 0                        | 70           | 73             | FK80-90L | 7.4         |
| -200                        |                |      |    |      | 200 | 130            |                          |              |                |          | 9.6         |
| -300                        |                |      |    |      | 300 | 200            |                          |              |                |          | 14.1        |

BT shank models are not available. Please choose BBT shank models.

- 1. Wrench and Axial Adjusting Screw are not included. Please order separately.
- 2. When using center through coolant;
  - Set screw with sealing compound applied (standard accessory) should be used to plug an air bleeding hole.
  - Oil hole type should be chosen when Straight Collet is required.
- 3. Tool adjustment amount "H" indicates the adjustment length with an Axial Adjusting Screw.
- 4. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.
- ※ HMC16S requires the hex socket head screw (M8) for axial adjustment. However, please contact us if using for center through applications. H dimension is the max. tool shank length that can be inserted into the holder.

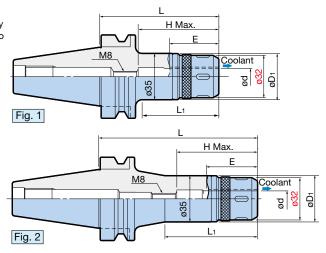
#### [HMC12J Type] Clamping diameter: ø12

A slim yet highly rigid milling chuck with ø32 outer diameter nut for reduced interference.









BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional BT spindles.

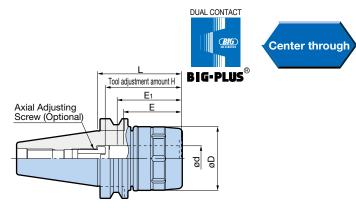
| BIG-PLUS<br>BBT SHANK Model | Fig. | Clamping<br>diameter ød | øD <sub>1</sub> | L   | L <sub>1</sub> | H Max. | Min. clamping length E | Wrench  | Weight<br>(kg) |
|-----------------------------|------|-------------------------|-----------------|-----|----------------|--------|------------------------|---------|----------------|
| BBT30-HMC12J- 60            | _    |                         | 35              | 60  | 38             | 65     | 65 43                  | FK31-33 | 0.58           |
| BBT40-HMC12J- 90            | '    |                         |                 | 90  | 63             |        |                        |         | 1.4            |
| -120                        | 2    | 12                      |                 | 120 | 70             |        |                        |         | 1.6            |
| BBT50-HMC12J-105            | 1    | ] 12                    |                 | 105 | 67             |        |                        |         | 4.0            |
| -135                        | 2    |                         |                 | 135 | 70             |        |                        |         | 4.3            |
| -165                        | -    |                         |                 | 165 | 90             |        |                        |         | 4.7            |

<sup>1.</sup> Wrench is not included. Please order separately.



#### **NEW Hi-POWER MILLING CHUCK**





#### [Standard Type]

#### BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional BT spindles.

| - 71 1                      |                 |    |    |     |                          |           |             |          |             |
|-----------------------------|-----------------|----|----|-----|--------------------------|-----------|-------------|----------|-------------|
| BIG-PLUS<br>BBT SHANK Model | BT SHANK Model  | ød | øD | L   | Tool adjustment amount H | Min. clam | oing length | Wrench   | Weight (kg) |
| BBT50-HMC20 -105            | BT50-HMC20 -105 |    |    | 105 |                          |           |             |          | 4.7         |
| -135                        | -135            | 20 | 60 | 135 | 69 - 79                  | 50        | 55          |          | 5.4         |
| _                           | -165            |    |    | 165 |                          |           |             | FK58-62  | 6.1         |
| -HMC25 -105                 | -HMC25 -105     |    | 62 | 105 | 74 - 84                  | 56        | 56          | FN30-02  | 4.6         |
| -135                        | -135            | 25 |    | 135 |                          |           |             |          | 5.3         |
| _                           | -165            |    |    | 165 |                          |           |             |          | 5.9         |
| -HMC32 -105 ▲               | -HMC32 -105     |    |    | 105 | 78 - 95                  |           | 71          |          | 5.2         |
| -135 ▲                      | -135            | 32 | 80 | 135 |                          | 60        |             | FK80-90  | 6.3         |
| _                           | -165            |    |    | 165 |                          |           |             |          | 7.5         |
| -HMC42 -105 ▲               | -HMC42 -105     |    |    | 105 |                          |           |             |          | 6.0         |
| -135 ▲                      | -135            | 42 | 99 | 135 | 93 - 105                 | 70        | 73          | FK92-100 | 7.5         |
| _                           | -165            |    |    | 165 |                          |           |             |          | 8.8         |

- 1. Wrench and Axial Adjusting Screw are not included. Please order separately.
- 2. When using center through coolant;
- Set screw with sealing compound applied (standard accessory) should be used to plug an air bleeding hole.
- Oil hole type should be chosen when Straight Collet is required.
- 3. Tool adjustment amount "H" indicates the adjustment length with an Axial Adjusting Screw.
- 4. When using center through coolant, insert a tool shank into  $\mathsf{E}_1$  or more.

Models marked with  $\blacktriangle$  in the table above include a vibration prevention screw.

This is effective for reducing chatter caused by heavy cutting or long tool projection.

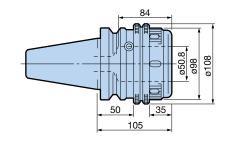
| Optional Accessories | S               |             |                       |
|----------------------|-----------------|-------------|-----------------------|
| Straight Collet      | Wrench          | Mega Wrench | Axial Adjusting Screw |
| 6                    |                 | 0           |                       |
| € G18                | ( <b>⊋</b> G22) | (F) G23     | (₹ G22                |

| Model with vibration prevention screw | Min. clamping length using vibration prevention screws |
|---------------------------------------|--|
| BBT50-HMC32-□□□▲                      | 88   |
| -HMC42-□□□▲                           | 91   |
|                                       |  |

#### For large diameter ( $\phi$ 50.8) endmills

Pin locking type which prevents tool slip by adding a special pin.

The double nut mechanism clamps the chuck flange solidly, increasing bending rigidity. Ideal for long and large diameter endmilling. A runout accuracy unrealizable with side lock holders is achieved.







| П  | DIO DILIO (DDT OL 1) L. L. L. L. L. DIO DILIO L. L. L. L. L. DT . L.                                   |
|----|--|
| -1 | BIG-PLUS (BBT Shank) tools can be used on both BIG-PLUS spindles and conventional <b>BT spindles</b> . |

| BIG-PLUS<br>BBT SHANK Model | BT SHANK Model   | Weight<br>(kg) |
|-----------------------------|------------------|----------------|
| BBT50-HMC50.8-105           | BT50-HMC50.8-105 | 5.9            |

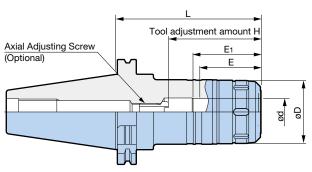


### **NEW Hi-POWER MILLING CHUCK**

The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts.







BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional **DV spindles**.

| BIG-PLUS         | DV SHANK Model  | Clamping    | øD | L   | Н        | Min. clamp | oing length    | Wrench   | Weight |
|------------------|-----------------|-------------|----|-----|----------|------------|----------------|----------|--------|
| BDV SHANK Model  | DV SHANK Model  | diameter ød | ØD | _   | "        | Е          | E <sub>1</sub> | VVICION  | (kg)   |
| BDV40-HMC20S- 85 | DV40-HMC20S- 85 |             |    | 85  |          |            |                |          | 1.6    |
| -105             | -105            | 20          | 50 | 105 | 69 - 79  | 50         | 56             | FK45-50L | 1.9    |
| -120             | -120            | ]           |    | 120 |          |            |                |          | 2.1    |
| -HMC25S- 95      | -HMC25S- 95     | 25          | 59 | 95  | 71 - 81  | 56         | 57             | FK58-62L | 2.0    |
| -105             | -105            | 25          | 59 | 105 | /1- 01   | 56         | 37             | FN30-02L | 2.2    |
| -HMC32S- 95      | -HMC32S- 95     | 32          | 68 | 95  | 79 - 89  | 60         | 64             | FK68-75L | 2.1    |
| -105             | -105            |             |    | 105 |          |            |                |          | 2.3    |
| -135             | -135            |             |    | 135 |          |            |                |          | 3.0    |
| BDV50-HMC20S-105 | DV50-HMC20S-105 | 20          | 50 | 105 | 69 - 79  | 50         | 56             | FK45-50L | 3.9    |
| -135             | -135            | 20          | 50 | 135 | 09 - 79  | 30         | 30             |          | 4.3    |
| -HMC25S-105      | -HMC25S-105     | 25          | 59 | 105 | 76 - 86  | 56         | 57             | FK58-62L | 4.2    |
| -135             | -135            | 25          | 39 | 135 | 70 - 80  | 30         | 37             | FN36-02L | 4.8    |
| -HMC32S-105      | -HMC32S-105     |             |    | 105 |          |            |                |          | 4.4    |
| -135             | -135            | 32          | 68 | 135 | 88 - 98  | 60         | 72             | FK68-75L | 5.2    |
| -165             | -165            |             |    | 165 |          |            |                |          | 6.0    |
| -HMC42S-135      | -HMC42S-135     | 42          | 85 | 135 | 93 - 105 | 70         | 73             | FK80-90L | 6.3    |

- 1. Wrench and Axial Adjusting Screw are not included. Please order separately.
- 2. When using center through coolant;
  - Set screw with sealing compound applied (standard accessory) should be used to plug an air bleeding hole.
  - Oil hole type should be chosen when Straight Collet is required.
- 3. Tool adjustment amount "H" indicates the adjustment length with an Axial Adjusting Screw.
- 4. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.

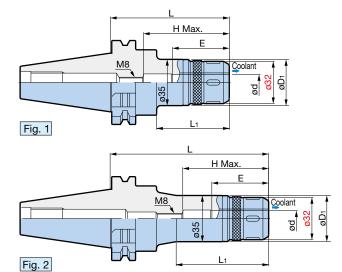


#### [HMC12J Type]

● A slim yet highly rigid milling chuck with ø32 outer diameter nut for reduced interference.







BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional **DV spindles**.

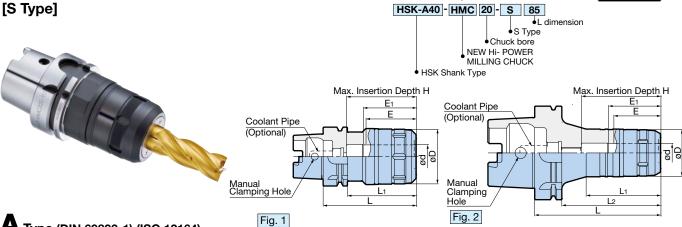
| BIG-PLUS<br>BDV SHANK Model | DV SHANK Model  | Fig. | Clamping<br>Diameter ød | øD1 | L   | L <sub>1</sub> | H Max. | Min. Clamping<br>Length E | Wrench  | Weight (kg) |
|-----------------------------|-----------------|------|-------------------------|-----|-----|----------------|--------|---------------------------|---------|-------------|
| BDV40-HMC12J- 90            | DV40-HMC12J- 90 | 1    |                         |     | 90  | 55             | 65     | 43                        | FK31-33 | 1.4         |
| -120                        | -120            | 2    | 10                      | 35  | 120 |                |        |                           |         | 1.6         |
| BDV50-HMC12J-105            | DV50-HMC12J-105 | 1    | 12                      | 35  | 105 | 70             |        |                           |         | 3.5         |
| -135                        | -135            | 2    |                         |     | 135 |                |        |                           |         | 3.8         |

<sup>1.</sup> Wrench is not included. Please order separately.

Center through

#### DUAL CONTACT MILLING CHUCK **HSK NEW Hi- POWER MILLING CHUCK**

The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts. Model Description [S Type] HSK-A40 - HMC 20 - S 85 S Type



**A** Type (DIN 69893-1) (ISO 12164)

| Type (DIN 69893-1) (ISO 12 | 104) |    | ·  |     | 1              | Ì              | 1              | 1  |                |          | T .    |
|----------------------------|------|----|----|-----|----------------|----------------|----------------|----|----------------|----------|--------|
| Model                      | Fig. | ød | øD | L   | L <sub>1</sub> | L <sub>2</sub> | Max. insertion |    |                | Wrench   | Weight |
|                            | J    |    |    |     |                |                | depth H        | Е  | E <sub>1</sub> |          | (kg)   |
| HSK-A 40-HMC20S- 85        | 1    | 20 | 50 | 85  | 65             | _              | 66             | 50 | 56             | FK45-50L | 0.9    |
| HSK-A 50-HMC20S- 90        | 1    | 20 | 50 | 90  | 64             | _              | 66             | 50 | 56             | FK45-50L | 1.2    |
| -HMC32S-115 ※              | L '  | 32 | 62 | 115 | 89             |                | 69             | 56 | 58             | FK58-62L | 1.6    |
| HSK-A 63-HMC20S- 90        | 1    | 20 | 50 | 90  | 64             | _              | 65             | 50 | 56             | FK45-50L | 1.5    |
| -120 🔾                     | ·    |    |    | 120 | 94             |                | 85             |    |                |          | 1.9    |
| -HMC25S-100                | 1    | 25 | 59 | 100 | 74             | _              | 75             | 56 | 57             | FK58-62L | 1.9    |
| <b>-135</b> △              | · ·  |    |    | 135 | 109            |                | 66 - 76        |    | 0,             |          | 2.5    |
| -HMC32S-110                |      |    |    | 110 | 84             |                | 85             |    |                | FK68-75L | 2.3    |
| -135 🔾                     | 1    | 32 | 68 | 135 | 109 —          | _              | 90             | 60 | 64             |          | 2.6    |
| <b>-165</b> △              |      |    |    | 165 | 139            |                | 79 - 89        |    |                |          | 3.2    |
| HSK-A100-HMC20S-105        | 1    |    |    | 105 | 76             | _              | 73             |    |                |          | 3.0    |
| -135 🗌                     | 2    | 20 | 50 | 135 | 80             | 106            | 85             | 50 | 56             | FK45-50L | 3.5    |
| -165 △                     | 2    |    |    | 165 | 100            | 136            | 69 - 79        |    |                |          | 4.1    |
| -HMC25S-105                | ] ,  |    |    | 105 | 76             | _              | 73             |    | 57             | FK58-62L | 3.3    |
| -135 🗌                     | '    | 25 | 59 | 135 | 106            |                | 90             | 56 |                |          | 3.9    |
| <b>-165</b> △              | 2    |    |    | 165 | 105            | 136            | 76 - 86        |    |                |          | 4.8    |
| -HMC32S-115                | 1    |    |    | 115 | 86             |                | 83             |    |                |          | 3.9    |
| -135                       | '    |    |    | 135 | 106            |                | 103            |    |                |          | 4.4    |
| -165 🗌                     |      | 32 | 68 | 165 | 105            | 136            | 105            | 60 | 72             | FK68-75L | 5.4    |
| <b>-200</b> △              | 2    |    |    | 200 | 130            | 171            | 90 - 100       |    |                |          | 6.4    |
| -300 △                     |      |    |    | 300 | 200            | 271            | 30 - 100       |    |                |          | 9.3    |
| -HMC42S-115                |      |    |    | 115 | 86             | _              | 83             |    |                |          | 4.9    |
| -135                       | 1    | 42 | 85 | 135 | 106            |                | 103            | 70 | 73             | FK80-90L | 5.5    |
| -165 🗌                     |      |    |    | 165 | 136            |                | 107            |    |                |          | 6.8    |

- 1. Wrench must be ordered separately.
- 2. Center through coolant supply is available.
- 3. Models with  $\triangle$  indication can be used with optional axial adjusting screws.
  - Models with  $\bigcirc$  indication require the hex socket head screw (M8) for axial adjustment.
  - Models with ☐ indication require the hex socket head screw (M12) for axial adjustment.

#### Adjusting screws cannot be used with models without the symbols above.

However, for  $\bigcirc$  and  $\square$  indicated models, please contact us if using for center through applications.

- 4. The straight collet with which ※ marked models can be used is model C32-□□ only.
- 5. H dimension is the max. tool shank length that can be inserted into the holder.
  - riangle marked models show the adjustment amount when using an optional axial adjusting screw.
- 6. Coolant pipe is not included. C5 C65
  7. When using center through coolant, insert a tool shank into E<sub>1</sub> or more.





#### [HMC12J Type]

A slim yet highly rigid milling chuck with ø32 outer diameter nut for reduced interference.



#### **A** Type (DIN 69893-1) (ISO 12164)

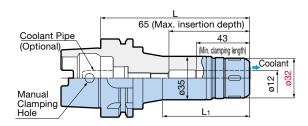
| Model              | L   | L <sub>1</sub> | Wrench  | Weight (kg) |
|--------------------|-----|----------------|---------|-------------|
| HSK-A63-HMC12J- 90 | 90  | 52             | FK31-33 | 1.1         |
| -120 ※             | 120 | 70             | FN31-33 | 1.4         |

- 1. Wrench must be ordered separately.
- 3. %HSK-A63-HMC12J-120 requires the hex socket head screw (M8) for tool adjustment. However, please contact us if using for center through applications



Jet through coolant securely supplied from chuck nose to cutting edge.





MILLING CHUCK

DUAL CONTACT **HSK SHANK** 

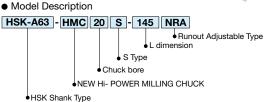
Clamping diameter: ø20 - ø32

#### Runout Adjustable RA Holder

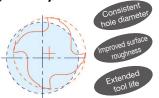
Compensates for increased runout of machine tool spindles caused by extended use.

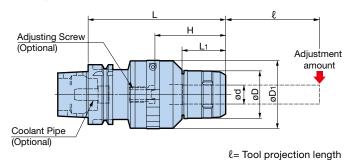






Tool edge Within 2µm! runout





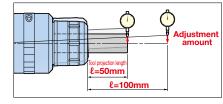
#### Type (DIN 69893-1) (ISO 12164)

| Model                 | ød | øD | øD₁ |     | L  | ш       | H Max. Min. clamping | oing Adjustment amount |        | Wrench  | Weight   |      |
|-----------------------|----|----|-----|-----|----|---------|----------------------|------------------------|--------|---------|----------|------|
| iviodei               | øu | טש | וטש | _   | Li |         | III WIAA.            | length                 | ℓ=50mm | ℓ=100mm | VVIENCII | (kg) |
| HSK-A63-HMC20S-145NRA | 20 | 50 | 72  | 145 | 46 | 69 - 79 | 85                   | 45                     | 23 μ m | 33 μ m  | FK45-50L | 2.9  |
| -HMC32S-155NRA *      | 32 | 68 | 86  | 155 | 55 | -       | 120                  | 53                     | 20 μ m | 28 μ m  | FK68-75L | 3.9  |

- 1. Wrench and axial adjusting screw must be ordered separately if required.
- 2. "H" indicates the adjustment amount with an axial adjusting screw (HMA). \*marked models cannot be used with axial adjusting screws
- 3. H max. is the maximum tool insertion length when the adjusting screw is removed.

#### Runout adjustment amount

The adjustment amount depends on the holder length and the tool projection length. The maximum adjustment amount possible for 50mm and 100mm tool projection lengths is listed in the table. The maximum adjustment amount is a reference figure available when the Adjusting Screw is tightened with the listed allowable torque.



#### Adjusting Screw allowable torque

| NEW Hi- POWER<br>MILLING CHUCK Type |       | Allowable torque<br>(N·m) |  |  |
|-------------------------------------|-------|---------------------------|--|--|
| HMC20S-NRA                          | CK-T4 | 8                         |  |  |
| HMC32S-NRA                          | UN-14 | 8                         |  |  |



or Milling Chuck/Runout Adjustable RA Holder

# ST SHANK MILLING CHUCK NEW Hi- POWER MILLING CHUCK

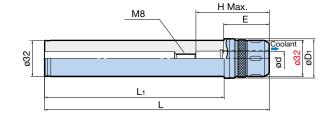
Slim milling chuck with high rigidity. Nut diameter of ø32 avoids interference.







Jet Through Coolant



| M  | odel  | De    | script       | ion            |                  |
|----|-------|-------|--------------|----------------|------------------|
| ST | 32 -  | ΗN    | /C 1         | 2 J            | - 120            |
|    |       |       |              |                | L dimension      |
|    |       |       |              | •              | Jet Through Type |
|    |       |       | •            | Chuc           | k bore           |
|    |       | •     | NEW<br>MILLI | Hi- PO<br>NG C | DWER<br>HUCK     |
| •  | Cylin | ndrio | cal sha      | nk dia         | meter            |

| Model           | Clamping<br>diameter ød | øD <sub>1</sub> | L   | L <sub>1</sub> | Н Мах. | Min. clamping length E | Wrench Model | Weight<br>(kg) |
|-----------------|-------------------------|-----------------|-----|----------------|--------|------------------------|--------------|----------------|
| ST32-HMC12J-120 |                         |                 | 120 | 80             |        |                        |              | 0.7            |
| -160            | 12                      | 35              | 160 | 120            | 65     | 43                     | FK31-33      | 0.9            |
| -200            |                         |                 | 200 | 160            | 1      |                        |              | 1.1            |

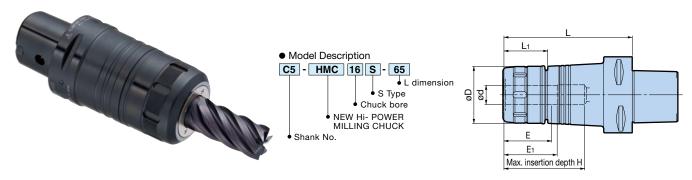
<sup>1.</sup> Wrench is not included. Please order separately.





The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts.





#### C5/C6/C8

| Model         | Clamping    | øD | L   | 1.             | Max. insertion | Min. clamp | oing length    | Wrench   | Weight |
|---------------|-------------|----|-----|----------------|----------------|------------|----------------|----------|--------|
| Iviodei       | diameter ød | טש | L   | L <sub>1</sub> | depth H        | Е          | E <sub>1</sub> | Wiench   | (kg)   |
| C5-HMC16S- 65 | 16          | 43 | 65  | 44             | 58             | 48         | 55             |          | 8.0    |
| -HMC20S- 75   | 20          | 50 | 75  | 44             | 68             | 50         | 56             | FK45-50L | 1.0    |
| -105          | 20          | 50 | 105 | 44             | 85             | 50         | 36             |          | 1.4    |
| -HMC25S- 75%  | 25          | 55 | 75  | 47             | 68             | 56         | 57             | FK52-55  | 1.3    |
| -105          | 25          | 55 | 105 |                | 87             |            |                |          | 1.7    |
| -HMC32S- 85   | 32          | 62 | 85  | 56             | 78             | 60         | 58             | FK58-62L | 1.6    |
| C6-HMC16S- 70 | 16          | 43 | 70  | 44             | 61             | 48         | 55             |          | 1.5    |
| -HMC20S- 75   |             |    | 75  | 44             | 66             | 50         | 56             | FK45-50L | 1.7    |
| -105          | 20          | 50 | 105 |                | 85             |            |                |          | 2.3    |
| <b>-120</b> △ |             |    | 120 |                | 69 - 79        |            |                |          | 2.5    |
| -HMC25S- 75*  |             |    | 75  | 45             | 66             | 56         | 57             | FK58-62L | 2.0    |
| -105          | 25          | 59 | 105 |                | 87             |            |                |          | 2.5    |
| -135△         |             |    | 135 |                | 73 - 83        |            |                |          | 3.1    |
| -HMC32S- 90   |             |    | 90  |                | 81             |            |                |          | 2.4    |
| -105          | 32          | 68 | 105 | 54             | 90             | 60         | 64             | FK68-75L | 2.7    |
| -135△         |             |    | 135 |                | 79 - 89        |            |                |          | 3.3    |
| C8-HMC20- 80  | 20          | 60 | 80  | 46             | 80             | 50         | 56             |          | 3.3    |
| -135△         | 20          | 00 | 135 | 40             | 69 - 79        | 50         | 96             | FK58-62  | 4.7    |
| -HMC25- 85    | 25          | 62 | 85  |                | 85             | 56         | 65             |          | 3.5    |
| -135△         | 25          | 02 | 135 | 55             | 76 - 86        | 30         | 65             |          | 4.7    |
| -HMC32- 95    | 32          | 80 | 95  | 63             | 95             | 60         | 71             | FK80-90  | 4.5    |
| -135          | 32          | 60 | 135 | 03             | 105            | 00         | / 1            | FN00-90  | 5.8    |

- 1. Wrench must be ordered separately.
- 2. The straight collet \* with which marked models can be used is model C25- only.
- 3. Models with  $\triangle$  indication can be used with optional axial adjusting screws. Adjusting screws cannot be used with models without the symbols above.
- 4. H dimension is the max. tool shank length that can be inserted into the holder.
- riangle marked models show the adjustment amount when using an optional axial adjusting screw.
- 5. When using center through coolant, insert a tool shank into  $\mathsf{E}_1$  or more.



