

# INDEX

## High Precision, High Rigidity & High Quality Performance

For High Speed

### MEGA MICRO CHUCK®



Ultra slim design eliminates any interference.

Clamping Range :  
ø0.45 - ø6.05

**Features : P5**

BBT SHANK	.....	P17
BDV SHANK	.....	P45
HSK SHANK	.....	P55,73,78
CYLINDRICAL SHANK	.....	P85
MICRO COLLET	.....	P91

For High Speed

### MEGA NEW BABY CHUCK®



Most reliable high precision collet chuck in the world.

Clamping Range :  
ø0.25 - ø20

**Features : P6**

BBT SHANK	.....	P19
BDV SHANK	.....	P46
HSK SHANK	.....	P57,75,79
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NEW BABY COLLET	.....	P92
MEGA PERFECT SEAL	.....	P96

For High Speed

### MEGA E CHUCK®



BIG original designed holder for small dia endmilling.

Clamping Range :  
ø3 - ø12

**Features : P7**

BBT SHANK	.....	P22
BDV SHANK	.....	P48
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MEGA E COLLET	.....	P94
MEGA E PERFECT SEAL	.....	P97

### MEGA DOUBLE POWER CHUCK®

For High Speed



Specialist for heavy-duty cutting.

Clamping Range :  
ø16 - ø50

**Features : P8**

BBT SHANK	.....	P25
BDV SHANK	.....	P49
HSK SHANK	.....	P63,81
STRAIGHT COLLET	.....	P95

### NEW BABY CHUCK



Most reliable high precision collet chuck in the world.

Clamping Range :  
ø0.25 - ø20

**Features : P9**

BT SHANK	.....	P29
DV SHANK	.....	P50
HSK SHANK	.....	P65
CYLINDRICAL SHANK	.....	P87
NEW BABY COLLET	.....	P92
BABY PERFECT SEAL	.....	P98

### NEW Hi-POWER MILLING CHUCK



High precision design for heavy cutting.

Clamping Range :  
ø16 - ø42

**Features : P10**

BBT/BT SHANK	.....	P32
DV SHANK	.....	P52
HSK SHANK	.....	P67
STRAIGHT COLLET	.....	P95

### SHRINK CHUCK



Clamping Range :  
ø6 - ø20

BBT SHANK	.....	P35
HSK SHANK	.....	P69,77,82

### MOLD CHUCK



Side lock holder for Mold Making

Clamping Range :  
ø3 - ø20

BBT SHANK	.....	P37
HSK SHANK	.....	P68,82

### SIDE LOCK HOLDER



Clamping Range :  
ø6 - ø50

BBT SHANK	.....	P38
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## MORSE TAPER HOLDER



**BBT SHANK** ..... P39

## FACE MILL ARBOR Type FMC



Eliminates chatter  
for smoother finish

**BBT SHANK** ..... P40  
**BDV SHANK** ..... P53

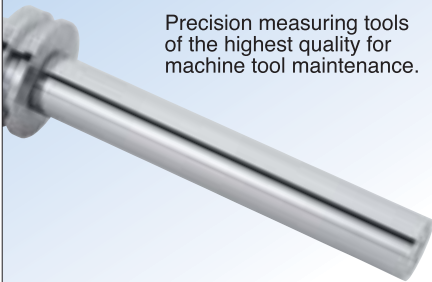
## FACE MILL ARBOR Type FMH



Secure coolant /  
air supply to cutting edge.

**BBT SHANK** ..... P41  
**HSK SHANK** ..... P71

## DYNA TEST



Precision measuring tools  
of the highest quality for  
machine tool maintenance.

**Features : P11**

**BBT SHANK** ..... P43  
**BDV SHANK** ..... P53  
**HSK SHANK** ..... P72,77,83

## CLEANER



Blowing air cleans the BIG-PLUS  
machine spindle face.

**BBT SHANK** ..... P43

## PULL STUD BOLT



**PULL STUD BOLT** ..... P99

## POINT MASTER SERIES



Touch probe & edge finder

**Features : P12**

**PMP SERIES** ..... P101  
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**STYLUS** ..... P102

## BASE MASTER SERIES

Tool offset sensors



**Features : P12**

**BM-50** ..... P105  
**BM-50G** ..... P105  
**BM-100G** ..... P106  
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## TOOL MASTER

Tool offset sensors



**Features : P12**

**TM-100** ..... P107

## ACCESSORIES



### TOOLING MATE

Ideal for mounting or removing cutting tools and retention knobs.

P108



### HOLDER LOCK

Horizontal type to enable to clamp in either right or left side.

P108



### KOMBI GRIP

2-way clutch holds HSK and CAPTO toolholders securely from rotating.

P109

### ST LOCK

For tightening clamping nuts of cylindrical shank toolholders.

P109



### T-SLOT CLEAN

Keeps T-slots of a table free from chips.

P109



### α WIPER CLEANER

Easy cleaning by simply inserting and removing.

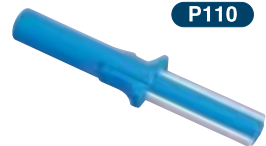
P110



### TK CLEANER

Absolute cleaning of clamping bore by unique "slide" feature.

P110



### α TAPER CLEANER

Maintain accuracy of high precision collet chucks.

P110



### α TOOLING CLEANER

Particles and oil on both taper and flange of 7/24 taper holder are easily removed.

P111



### SPINDLE CLEANER

Easy cleaning of oil or particles from the machine spindle.

P111



### CLEAN TEC

Full automation of swarf and coolant removal by means of wind pressure.

P111



## CUTTING TOOLS



### FULLCUT MILL Type FCR

Endmill with low cutting resistance for ramping and helical interpolation.

Features : P13

BBT, BDV, HSK SHANK  
..... P113



### FULLCUT MILL Type FCM

Shoulder and slot milling cutter with both high radial and axial rake angle.

Features : P13

BBT, BDV, HSK,  
CYLINDRICAL SHANK  
ARBOR TYPE  
..... P119



### C-CUTTER MINI

Ultra High Feed Chamfer Mill.

Features : P15

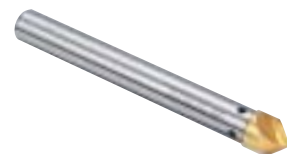
CYLINDRICAL SHANK  
..... P129

### C-CUTTER

Extensive chamfering range.



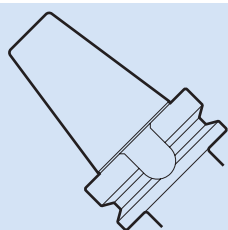
CYLINDRICAL SHANK  
..... P134



### CENTER BOY

Center and Chamfer in one.

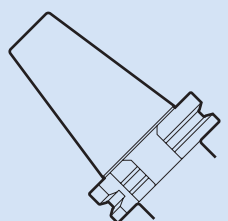
CYLINDRICAL SHANK  
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## BBT/BT SHANK

JIS B 6339(BIG-PLUS) / JIS B 6339

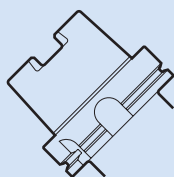
**P16 - P43**



## BDV/DV SHANK

DIN 69871 A/B(BIG-PLUS) / DIN 69871 A/B

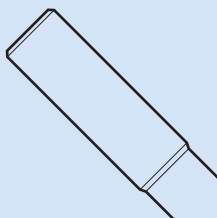
**P44 - P53**



## HSK SHANK

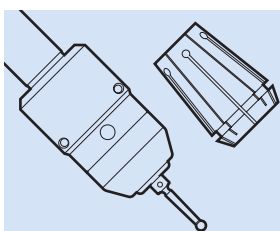
Form A DIN 69893-1      Form E DIN 69893-5  
Form F DIN V 69893-6

**P54 - P83**



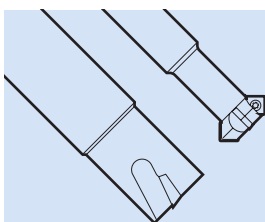
## CYLINDRICAL SHANK

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## ACCESSORIES

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## CUTTING TOOLS

**P112- P135**

Application example

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