

# Tooling System

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## Milling Accessories



**F01-F138**

**F01~27**
**Shank / Chuck**


62000 F01



62001 F01



62002 F02



62003 F02



62004 F03



62006 F04



62008 F05



62009 F05



62010 F06



62012 F07



62014 F08



62016 F09



62018 F10



62020 F11



62022 F12



62024 F13



62026 F14-16



62032 F17-18



62036 F19



62038 F21



62040 F23



62042 F24



62044 F25



62046 F27

**F28~45**
**Shank / Chuck**


62048 F28



62050 F29



62052 F30



62054 F31



62056 F32



62058 F33



62060 F34



62062 F35



62064 F36



62066 F37



62068 F38



62070 F39



62072 F40



62074 F41



62076 F42



62078 F43



62080 F44



62082 F45



# INDEX

F46~60

Milling Chuck / Arbor / Holder



62084 F46



62086 F47



62088 F48



62090 F49



62092 F50



62094 F51



62096 F52



62098 F53



62100 F53



62101 F53



62102 F54



62104 F55



62108 F55



62110 F56



62112 F57



62114 F58



62116 F59



62118 F59



62120 F60



62122 F60

F61~77

Milling Chuck / Arbor / Holder(Sets)



62124 F61



62126 F63



62128 F63



62130 F64



62132 F65



62134 F66



62136 F67



62138 F68



62142 F69



62144 F70



62146 F71



62148 F72



62150 F73



62152 F74



62154 F74



62156 F75



62160 F76



62162 F77



**F79~F88**
**ER Collets**


62168 F79



62169 F79



62170 F80



62171 F80



62172 F81



62173 F81



62174 F82



62175 F82



62176 F83



62177 F83



62178 F84



62179 F84



62180 F85



62181 F85



62182 F86



62183 F86



62196 F87



62198 F87



62200 F87



62202 F88



62204 F88

**F89~F97**
**Pull Stud**


62206 F89



62208 F89



62210 F89



62212 F90



62214 F90



62216-26 F91



62228 F92



62230 F92



62232 F93



62234 F93



62236 F94



62238 F94



62240 F94



62242 F94



62250~58 F95



62260~68 F96



62270/75/80 F97



62290 F98



# INDEX

F98~F114

Tool Tightening Fixture / Drill Chuck



62310 F98



62315 F98



62320 F99



62325 F99



62330 F99



62340 F100



63000 F101



63010 F101



63020 F102



63030 F102



63040 F103



63050 F103



63070 F104



63080 F105



63090 F106



63100 F107



63110 F108



63120 F109



63130 F110



63140 F111



63150 F112



63170 F113



63180 F114

F115~F118

Ratchet type Drill Chuck



63190 F115



63200 F116



63210 F116



63220 F117



63230 F117



63240 F118



63250 F118





F119~136

**Tapper Chuck**

 63500 F119	 63510 F120	 63520 F120	 63530 F121	 63540 F121	 63550 F122
 63560 F123	 63570 F123	 63580 F124	 63590 F124	 63600 F125	 63610 F126
 63620 F127	 63630 F128	 63640 F129	 63650 F130	 63660 F131	 63670 F132
 63680 F133	 63690 F134	 63700 F135	 63710 F135	 63720 F136	 63730 F136

F137~138

**Universal Tapper Chuck**

 63740 F137	 63750 F138				







# Tooling System

**62000**

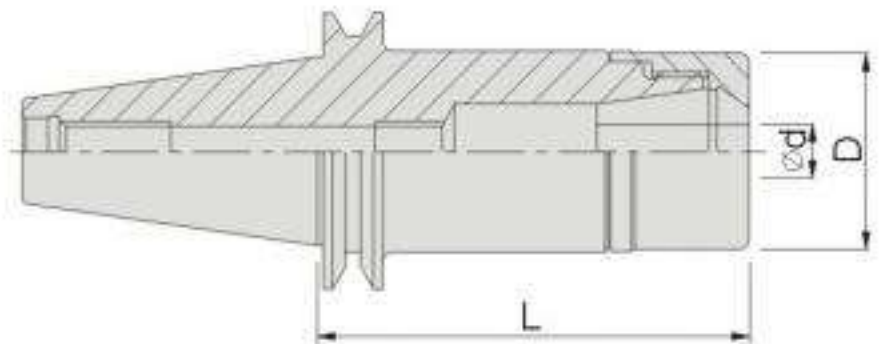
ISO/GSK

Engraving Machine Collet Chuck



## Feature:

- ▶ Keyless groove is suitable for high speed turning.
- ▶ Balanced: G2.5, 25,000RPM. Higher balanced grade G2.5, 40000RPM can be done upon request with additional charge.



Order No.	Model	$\varnothing D$	D	L
62000-01	ISO25-GSK6	2~6	20	35
62000-02	ISO25-GSK10	2~10	27.5	35
62000-03	ISO25-GSK16	2~16	40	35
62000-04	ISO30-GSK6	2~6	20	50
62000-05	ISO30-GSK10	2~10	27.5	50
62000-06	ISO30-GSK16	2~16	40	50

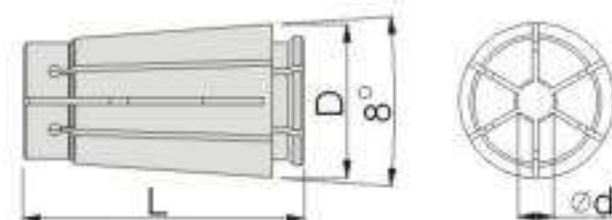
**62001**

GSK

Bearing Wrench



Order No.	Model	Wrench Dia.
62001-01	NCH-GSK6	20
62001-02	NCH-GSK10	27.5
62001-03	NCH-GSK16	40



## SK Collet

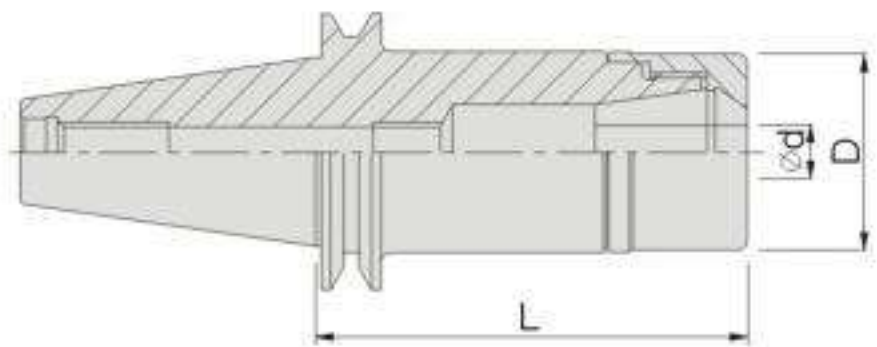
Order No.	Model	$\varnothing d$	D	L
P.F06	SK6	2,2.25,2.5,2.75,3,3.5,4,4.5,5,5.5,6	10.55	25
	SK10	2,2.25,2.5,2.75,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	15.5	30
	SK16	4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16	24.5	40



**62002**
**ISO/GER**
**Engraving Machine Collet Chuck**

**Feature:**

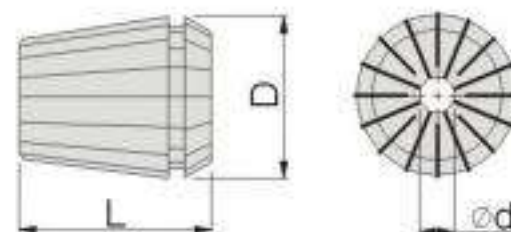
- ▶ Keyless groove is suitable for high speed turning.
- ▶ Balanced: G2.5, 25,000RPM. Higher balanced grade G2.5, 40000RPM can be done upon request with additional charge.


**TOOLING SYSTEM**

Order No.	Model	ød	D	L
62002-01	ISO25-GER16	2~10	27.5	42
62002-02	ISO25-GER20	2~13	30	42
62002-03	ISO30-GER16	2~10	27.5	55
62002-04	ISO30-GER20	2~13	30	55

**62003**
**GER**
**Bearing Wrench**


Order No.	Model	Wrench Dia.
62003-01	NCH-GER16	27.5
62003-02	NCH-GER20	30
62003-03	NCH-GER25	40


**ER Collet**

Order No.	Model	ød	D	L
	ER11	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	11.5	18.5
	ER16	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	17	27
	ER20	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	21	31

# Tooling System

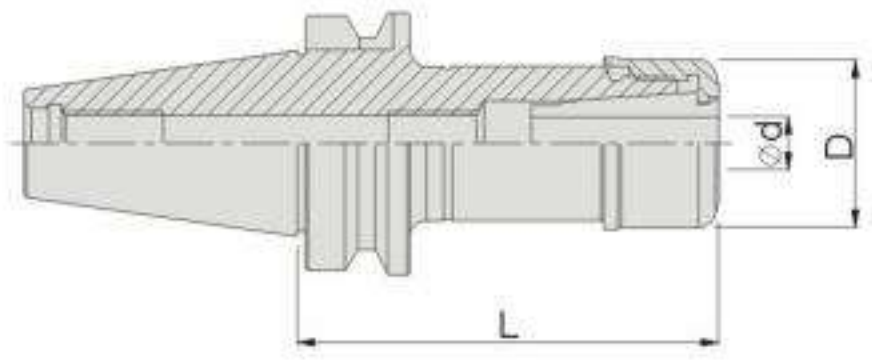
## 62004 BT/GSK High Speed Chuck

TOOLING SYSTEM



### Feature:

- ▶ Suitable for high speed and high precision cutting, lasting lifecycle.
- ▶ Stable cutting and less vibration.
- ▶ Precision balancing is applied for G2.5, 25000 ~ 32000 RPM.



Order No.	Model	$\phi d$	D	L
62004-01	BT30-GSK6-60	1.8~6.00	20	60
62004-02	BT30-GSK6-100	1.8~6.00	20	100
62004-03	BT30-GSK10-60	1.8~10.00	27.5	60
62004-04	BT30-GSK10-90	1.8~10.00	27.5	90
62004-05	BT30-GSK16-60	2.75~16.00	40	60
62004-06	BT30-GSK16-90	2.75~16.00	40	90
62004-07	BT40-GSK6-60	1.8~6.00	20	60
62004-08	BT40-GSK6-90	1.8~6.00	20	90
62004-09	BT40-GSK10-60	1.8~10.00	27.5	60
62004-10	BT40-GSK10-90	1.8~10.00	27.5	90
62004-11	BT40-GSK16-60	2.75~16.00	40	60
62004-12	BT40-GSK16-90	2.75~16.00	40	90

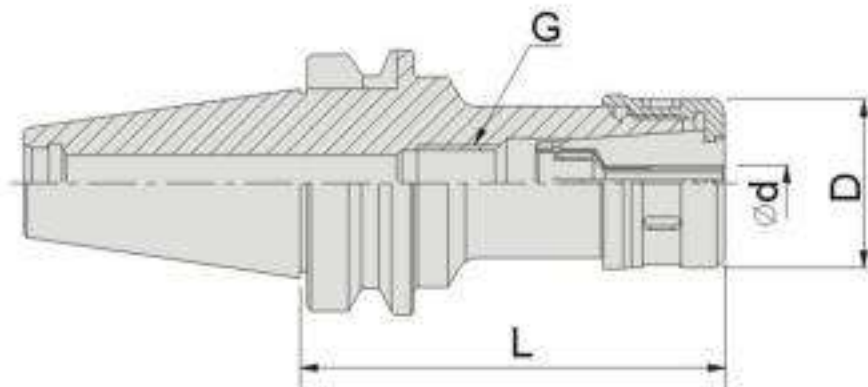


**62006**
**BT/TSK**
**High Speed Chuck**

**TOOLING SYSTEM**

**Feature:**

- ▶ Suitable for high speed and high precision cutting, lasting lifecycle.
- ▶ Stable cutting and less vibration.
- ▶ Precision balancing is applied for G2.5, 15000 ~ 25000 RPM.



Order No.	Model	ød	D	L	G
62006-01	BT30-TSK6-60	1.8~6.00	20	60	M8 x 1.25P
62006-02	BT30-TSK6-100	1.8~6.00	20	100	M8 x 1.25P
62006-03	BT30-TSK10-60	1.8~10.00	29	60	M12 x 1.75P
62006-04	BT30-TSK10-100	1.8~10.00	29	100	M12 x 1.75P
62006-05	BT30-TSK16-60	2.75~16.00	40	60	M18 x 2.5P
62006-06	BT30-TSK16-100	2.75~16.00	40	100	M18 x 2.5P
62006-07	BT40-TSK6-60	1.8~6.00	20	60	M8 x 1.25P
62006-08	BT40-TSK6-100	1.8~6.00	20	100	M8 x 1.25P
62006-09	BT40-TSK10-60	1.8~10.00	29	60	M12 x 1.75P
62006-10	BT40-TSK10-100	1.8~10.00	29	100	M12 x 1.75P
62006-11	BT40-TSK16-60	2.75~16.00	40	60	M18 x 2.5P
62006-12	BT40-TSK16-100	2.75~16.00	40	100	M18 x 2.5P
62006-13	BT40-TSK25-80	8.00~25.00	55	80	M24 x 3.0P
62006-14	BT40-TSK25-120	8.00~25.00	55	120	M24 x 3.0P
62006-15	BT50-TSK10-100	1.8~10.00	29	100	M12 x 1.75P
62006-16	BT50-TSK10-150	1.8~10.00	29	150	M12 x 1.75P
62006-17	BT50-TSK16-100	2.75~16.00	40	100	M18 x 2.5P
62006-18	BT50-TSK16-150	2.75~16.00	40	150	M18 x 2.5P
62006-19	BT50-TSK25-120	8.00~25.00	55	120	M24 x 3.0P
62006-20	BT50-TSK25-200	8.00~25.00	55	200	M24 x 3.0P



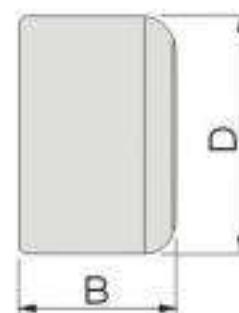
# Tooling System

**62008**

NUT

TSK / GSK Clamping Nut

TOOLING SYSTEM



**TSK**

**GSK**

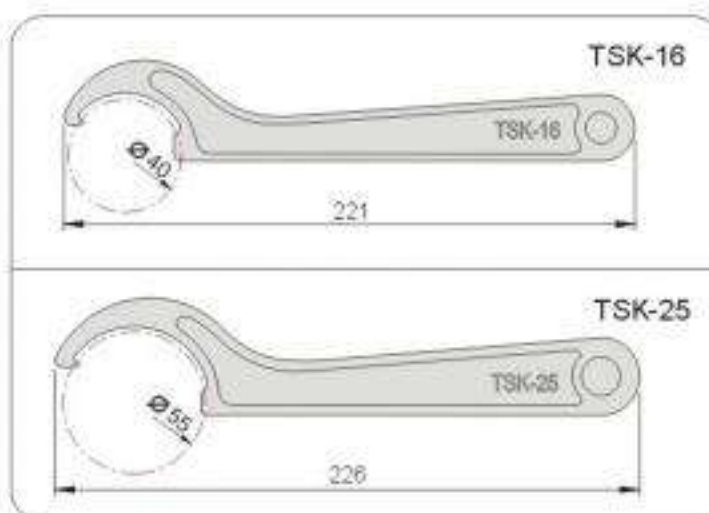
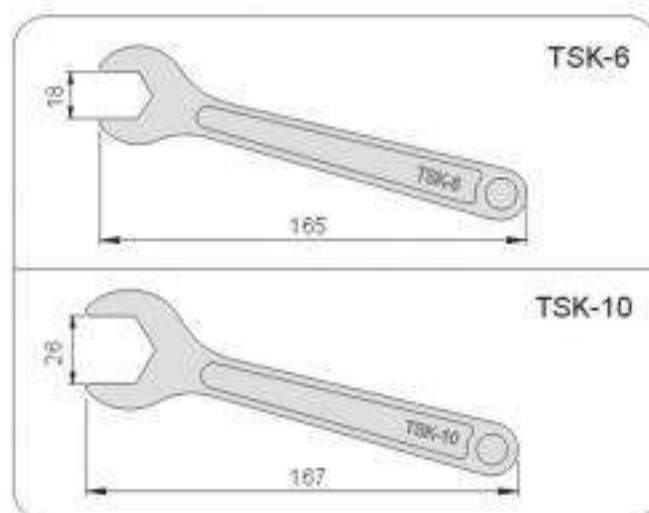
Order No.	Model	D	B
62008-01	NUT-TSK6	20	16
62008-02	NUT-TSK10	29	19
62008-03	NUT-TSK16	40	27.5
62008-04	NUT-TSK25	55	34

Order No.	Model	D	B
62008-05	NUT-GSK6	20	16
62008-06	NUT-GSK10	27.5	19
62008-07	NUT-GSK16	40	27.5

**62009**

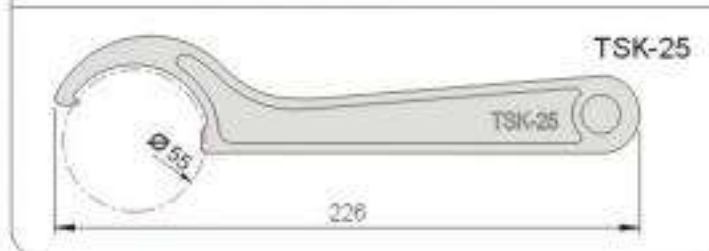
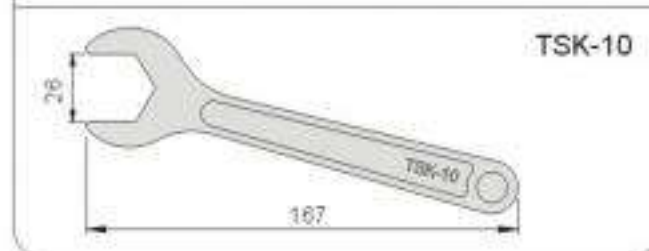
TSK

TSK Clamping Nut Wrench

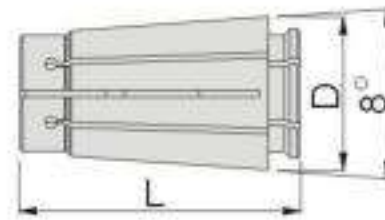


Unit:mm

Order No.	Model
62009-01	TSK-6
62009-02	TSK-10
62009-03	TSK-16
62009-04	TSK-25






**SK6**

Order No.	Model	Range
62010-01	SK6-2	1.8~2
62010-02	SK6-3	2.8~3
62010-03	SK6-3.5	3~3.5
62010-04	SK6-4	3.5~4
62010-05	SK6-4.5	4~4.5
62010-06	SK6-5	4.5~5
62010-07	SK6-5.5	5~5.5
62010-08	SK6-6	5.5~6

**SK10**

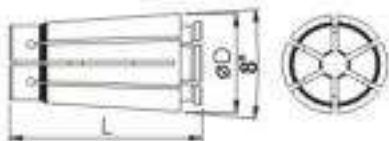
Order No.	Model	Range
62010-11	SK10-2	1.8~2
62010-12	SK10-3	2.8~3
62010-13	SK10-3.5	3~3.5
62010-14	SK10-4	3.5~4
62010-15	SK10-4.5	4~4.5
62010-16	SK10-5	4.5~5
62010-17	SK10-5.5	5~5.5
62010-18	SK10-6	5.5~6
62010-19	SK10-6.5	6~6.5
62010-20	SK10-7	6.5~7
62010-21	SK10-7.5	7~7.5
62010-22	SK10-8	7.5~8
62010-23	SK10-8.5	8~8.5
62010-24	SK10-9	8.5~9
62010-25	SK10-9.5	9~9.5
62010-26	SK10-10	9.5~10

**SK16**

Order No.	Model	Range
62010-31	SK16-3	2.8~3
62010-32	SK16-3.5	3~3.5
62010-33	SK16-4	3.5~4
62010-34	SK16-4.5	4~4.5
62010-35	SK16-5	4.5~5
62010-36	SK16-5.5	5~5.5
62010-37	SK16-6	5.5~6
62010-38	SK16-6.5	6~6.5
62010-39	SK16-7	6.5~7
62010-40	SK16-7.5	7~7.5
62010-41	SK16-8	7.5~8
62010-42	SK16-8.5	8~8.5
62010-43	SK16-9	8.5~9
62010-44	SK16-9.5	9~9.5
62010-45	SK16-10	9.5~10
62010-46	SK16-10.5	10~10.5
62010-47	SK16-11	10.5~11
62010-48	SK16-11.5	11~11.5
62010-49	SK16-12	11.5~12
62010-50	SK16-12.5	12~12.5
62010-51	SK16-13	12.5~13
62010-52	SK16-13.5	13~13.5
62010-53	SK16-14	13.5~14
62010-54	SK16-14.5	14~14.5
62010-55	SK16-15	14.5~15
62010-56	SK16-15.5	15~15.5
62010-57	SK16-16	15.5~16

**SK25**

Order No.	Model	Range
62010-61	SK25-8	7.5~8
62010-62	SK25-10	9.5~10
62010-63	SK25-12	11.5~12
62010-64	SK25-16	15.5~16
62010-65	SK25-16.5	16~16.5
62010-66	SK25-17	16.5~17
62010-67	SK25-17.5	17~17.5
62010-68	SK25-18	17.5~18
62010-69	SK25-18.5	18~18.5
62010-70	SK25-19	18.5~19
62010-71	SK25-19.5	19~19.5
62010-72	SK25-20	19.5~20
62010-73	SK25-20.5	20~20.5
62010-74	SK25-21	20.5~21
62010-75	SK25-21.5	21~21.5
62010-76	SK25-22	21.5~22
62010-77	SK25-22.5	22~22.5
62010-78	SK25-23	22.5~23
62010-79	SK25-23.5	23~23.5
62010-80	SK25-24	23.5~24
62010-81	SK25-24.5	24~24.5
62010-82	SK25-25	24.5~25



	D	L
SK6	10.55	25
SK10	15.60	30
SK16	24.6	45
SK25	35.6	57

Collect level	Runout
P	3 $\mu$ m
A	5 $\mu$ m

	SK6-2 ~SK6-2.75 SK10-2~SK10-2.75
	SK6-3 ~SK6-6 SK10-3~SK10-6 SK16-3~SK16-6
	SK10-6.5~SK10-8 SK16-6.5~SK16-16 SK25-8~SK25-25



# Tooling System

**62012**

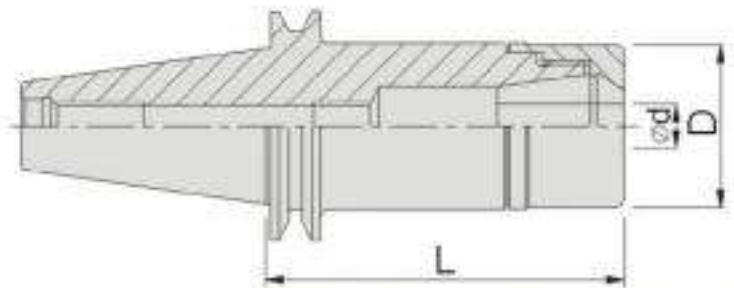
BT/GER

High Speed Chuck



## Feature:

- ▶ Suitable for high speed and high precision cutting, lasting lifecycle.
- ▶ Stable cutting and less vibration.
- ▶ Precision balancing is applied for G2.5, 15000 ~ 25000 RPM.



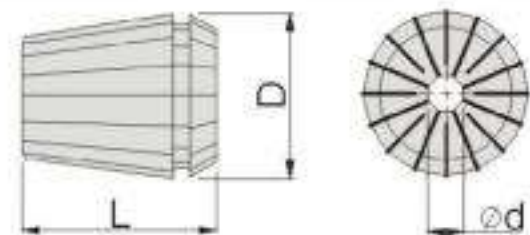
Order No.	Model	$\varnothing d$	D	L
62012-01	BT30-GER16-70	0.5~10.0	27.5	70
62012-02	BT30-GER20-70	1.0~13.0	30	70
62012-03	BT30-GER25-70	1.0~16.0	40	70
62012-04	BT30-GER16-100	0.5~10.0	27.5	100
62012-05	BT30-GER20-100	1.0~13.0	30	100
62012-06	BT30-GER25-100	1.0~16.0	40	100
62012-07	BT40-GER16-70	0.5~10.0	27.5	70
62012-08	BT40-GER20-70	1.0~13.0	30	70
62012-09	BT40-GER25-70	1.0~16.0	40	70
62012-10	BT40-GER16-100	0.5~10.0	27.5	100
62012-11	BT40-GER20-100	1.0~13.0	30	100
62012-12	BT40-GER25-100	1.0~16.0	40	100

## Wrench



ER Collet

Order No.	Model	Wrench Dia.
P. F02	NCH-GER16	27.5
	NCH-GER20	30
	NCH-GER25	40



Order No.	Model	$\varnothing d$	D	L
P. F80-83	ER11	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	11.5	18.5
	ER16	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	17	27
	ER20	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	21	31
	ER25	3,4,5,6,7,8,9,10,11,12,13,14,15,16	26	35

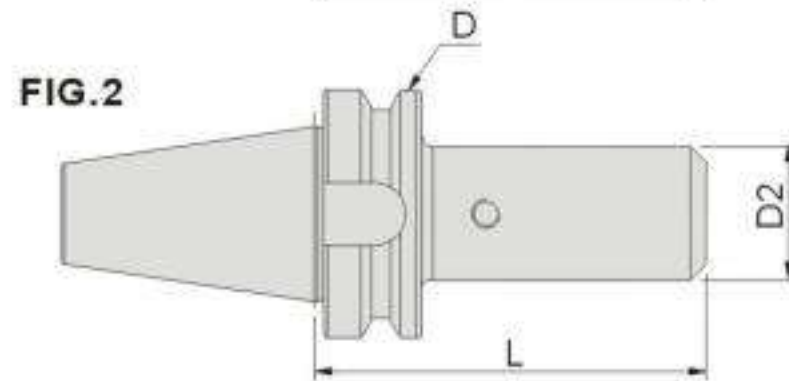
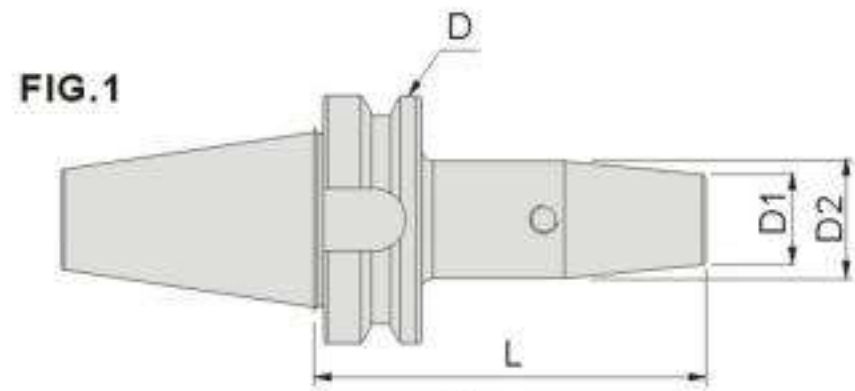



**Feature:**

JIS B 6339(MAS 403 BT)

- ▶ Suitable for high speed and high precision processing.
- ▶ Precision balancing is applied for G2.5, 25000 RPM.

TOOLING SYSTEM


**P.F11**

Unit:mm

Order No.	Model	L	Ø D	Ø D1	Ø D2	FIG.
62014-01	BT30xSBL6-70	70	46	23	30	1
62014-02	BT30xSBL6-100	100	46	23	30	1
62014-03	BT30xSBL12-70	70	46	-	34	2
62014-04	BT30xSBL12-100	100	46	-	34	2
62014-05	BT30xSBL20-85	85	46	-	42	2
62014-06	BT30xSBL20-100	100	46	-	42	2
62014-07	BT40xSBL6-70	70	63	23	30	1
62014-08	BT40xSBL6-100	100	63	23	30	1
62014-09	BT40xSBL12-70	70	63	-	34	2
62014-10	BT40xSBL12-100	100	63	-	34	2
62014-11	BT40xSBL20-75	75	63	-	48	2
62014-12	BT40xSBL20-100	100	63	-	48	2
62014-13	BT50xSBL6-70	70	100	23	28	1
62014-14	BT50xSBL6-100	100	100	23	28	1
62014-15	BT50xSBL12-70	70	100	-	34	2
62014-16	BT50xSBL12-100	100	100	-	34	2
62014-17	BT50xSBL20-70	70	100	-	48	2
62014-18	BT50xSBL20-100	100	100	-	48	2





# Tooling System

**62016**

SK/SBL

Slim-Fit Collet Chuck

TOOLING SYSTEM



**Feature:**

DIN 69871-A

- ▶ Suitable for high speed and high precision processing.
- ▶ Precision balancing is applied for G2.5, 25000 RPM.

FIG.1

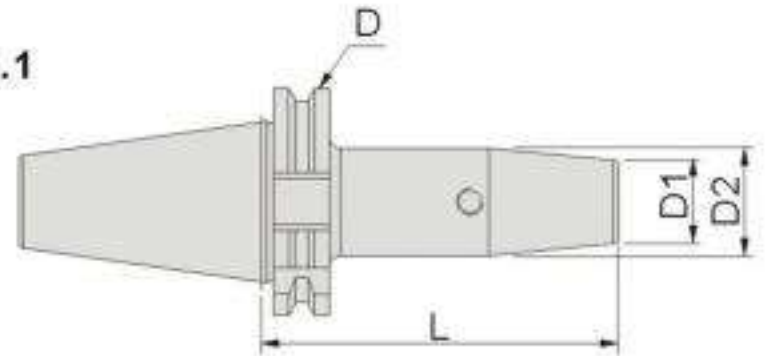
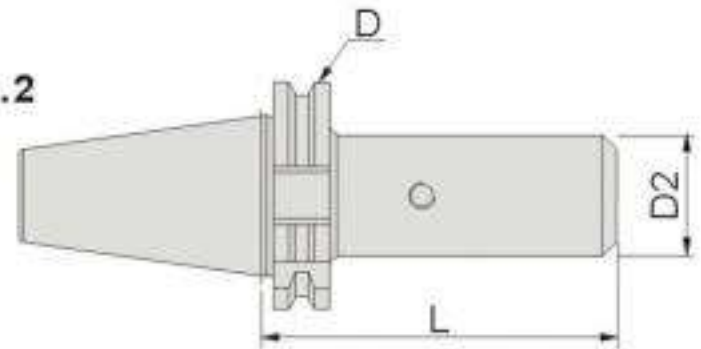


FIG.2



P.F11

Unit:mm

Order No.	Model	L	Ø D	Ø D1	Ø D2	FIG.
62016-01	SK30xSBL6-70	70	50	23	30	1
62016-02	SK30xSBL6-100	100	50	23	30	1
62016-03	SK30xSBL12-80	80	50	-	34	2
62016-04	SK30xSBL12-100	100	50	-	34	2
62016-05	SK30xSBL20-80	80	50	-	42	2
62016-06	SK30xSBL20-100	100	50	-	42	2
62016-07	SK40xSBL6-70	70	63.55	23	30	1
62016-08	SK40xSBL6-100	100	63.55	23	30	1
62016-09	SK40xSBL12-80	80	63.55	-	34	2
62016-10	SK40xSBL12-100	100	63.55	-	34	2
62016-11	SK40xSBL20-80	80	63.55	-	42	2
62016-12	SK40xSBL20-100	100	63.55	-	42	2
62016-13	SK50xSBL6-70	70	97.5	23	30	1
62016-14	SK50xSBL6-100	100	97.5	23	30	1
62016-15	SK50xSBL12-70	70	97.5	-	34	2
62016-16	SK50xSBL12-100	100	97.5	-	34	2
62016-17	SK50xSBL20-80	80	97.5	-	42	2
62016-18	SK50xSBL20-100	100	97.5	-	42	2

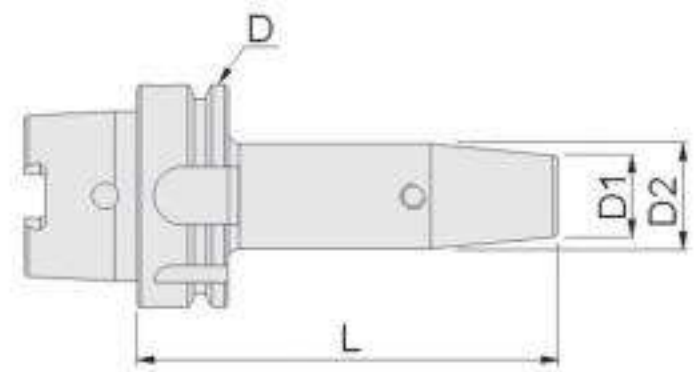
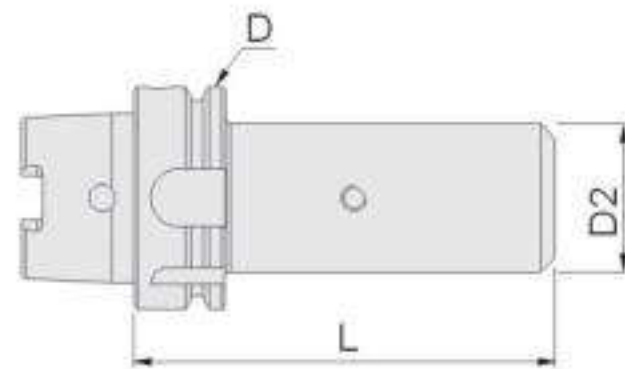




**Feature:**

DIN 69871-A

- ▶ Suitable for high speed and high precision processing.
- ▶ Assembly with HSK Collet for better side processing stability.


**FIG.1**

**FIG.2**

**P.F11**

Unit:mm

Order No.	Model	L	Ø D	Ø D1	Ø D2	FIG.
62018-01	HSK50AxSBL6-105	105	50	23	30	1
62018-02	HSK50AxSBL6-120	120	50	23	30	1
62018-03	HSK50AxSBL12-120	120	50	-	34	2
62018-04	HSK50AxSBL12-130	130	50	-	34	2
62018-05	HSK50AxSBL20-130	130	50	-	42	2
62018-06	HSK50AxSBL20-150	150	50	-	42	2
62018-07	HSK63AxSBL6-110	110	63	23	30	1
62018-08	HSK63AxSBL6-120	120	63	23	30	1
62018-09	HSK63AxSBL12-120	120	63	-	42	2
62018-10	HSK63AxSBL12-150	150	63	-	42	2
62018-11	HSK63AxSBL20-130	130	63	-	42	2
62018-12	HSK63AxSBL20-140	140	63	-	42	2



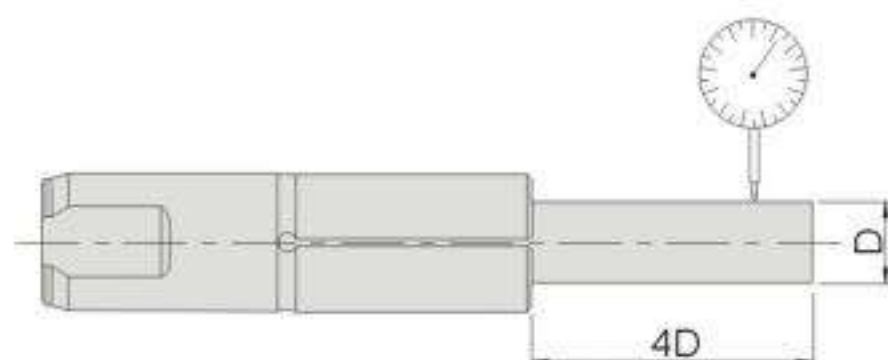
# Tooling System

## 62020 SBL Collet



### Feature:

- Suitable for any type of processing, drilling, milling, tapping...etc



Model	D	L
SBL6	∅14.7	52.4
SBL12	∅17.8	64.2
SBL20	∅26.1	69.9

Order No.	Model	∅D
62020-01	SBL6	∅3
62020-02	SBL6	∅4
62020-03	SBL6	∅4.5
62020-04	SBL6	∅5.5
62020-05	SBL6	∅6

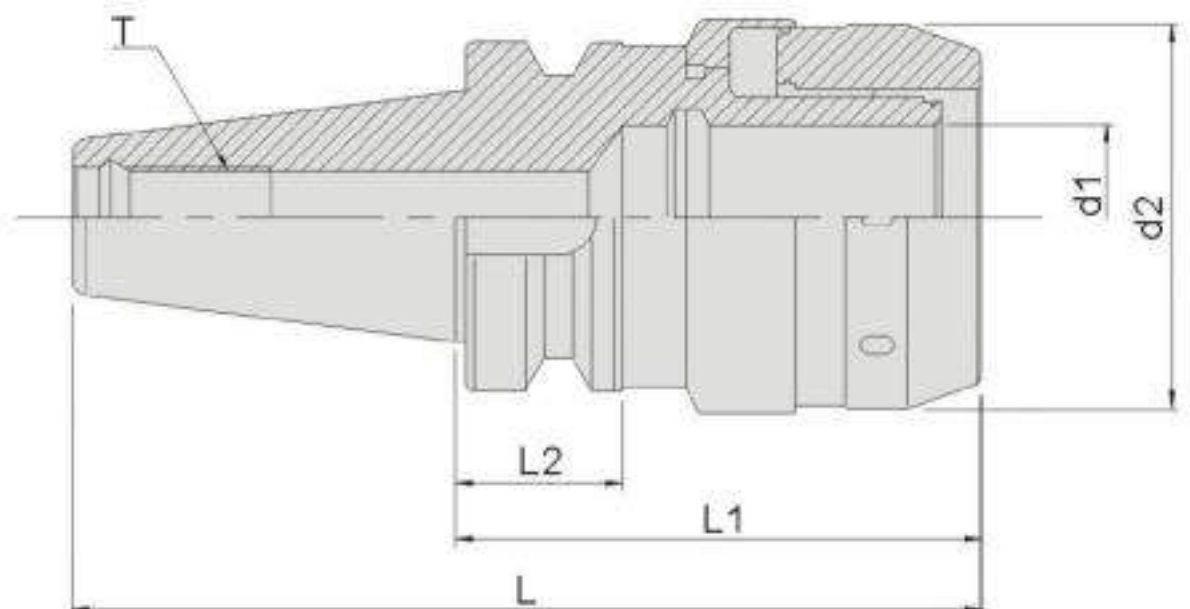
Order No.	Model	∅D
62020-21	SBL12	∅4
62020-22	SBL12	∅6
62020-23	SBL12	∅8
62020-24	SBL12	∅10
62020-25	SBL12	∅12

Order No.	Model	∅D
62020-51	SBL20	∅6
62020-52	SBL20	∅8
62020-53	SBL20	∅10
62020-54	SBL20	∅12
62020-55	SBL20	∅14
62020-56	SBL20	∅16
62020-57	SBL20	∅18
62020-58	SBL20	∅20




**Feature:**

- ▶ Six groove inner dia. to prevent slide and enhance clamping force.
- ▶ Needle bearings make sure taper surface less contact friction.
- ▶ Water and dust proof and such design does not over tighten.
- ▶ Seal design to eliminate dust and chips.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

**TOOLING SYSTEM**

**P.F96**
**P.F75**

Unit:mm

Order No.	Model-d1-l1	L	L1	L2	d1	d2	T
62022-01	BT30-C20-80	128.4	80	20	20	55	M12x1.75
62022-02	BT40-C20-80	145.4	80	25	32	68.5	M16x2.0
62022-03	BT40-C20-100	165.4	100	25	32	68.5	
62022-04	BT40-C20-135	200.4	135	25	32	68.5	
62022-05	BT40-C25-80	145.4	80	25	32	68.5	
62022-06	BT40-C25-100	165.4	100	25	32	68.5	
62022-07	BT40-C32-90	155.4	90	25	32	68.5	
62022-08	BT40-C32-105	170.4	105	25	32	68.5	
62022-09	BT40-C32-135	200.4	135	25	32	68.5	
62022-10	BT50-C32-110	211.8	110	35	32	68.5	
62022-11	BT50-C32-135	236.8	135	35	32	68.5	
62022-12	BT50-C32-165	266.8	165	35	32	68.5	
62022-13	BT50-C32-200	301.8	200	35	32	68.5	
62022-14	BT50-C42-110	211.8	110	35	42	92	

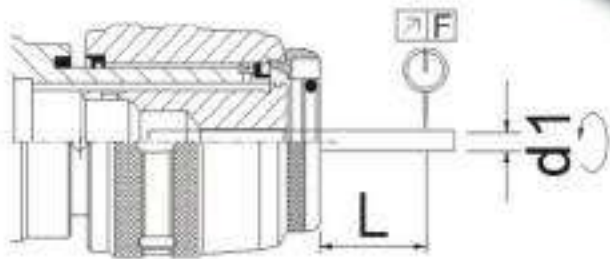


# Tooling System

**62024**

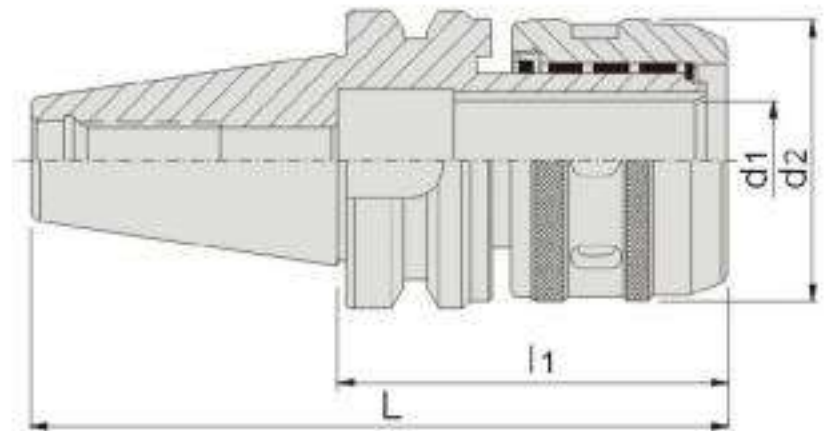
BT/MLT

Multi-Lock Mill Chuck



## Feature:

- ▶ Water and dust proof and such design does not over tighten.
- ▶ Seal design to eliminate dust and chips.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

<b>d1</b>	<b>END MILL DIAMETER</b>	6	8	10	12	16	20	25	32	42
<b>L</b>	<b>END MILL LENGTH</b>	25	30	30	40	40	50	50	60	60
<b>F</b>	<b>CONCENTRICITY</b>	0.02								

<b>L</b>	MLT20	60
	MLT32	80
	MLT40	100
<b>F</b>	<b>CONCENTRICITY</b>	0.001~0.005



P.F96



P.F75

Unit:mm

Order No.	Model-d1-l1	L	l1	d1	d2	N.W.
62024-01	BT30xMLT20-75	123.4	75	20	55	1.8kg
62024-02	BT30xMLT20-90	138.4	90			2.0kg
62024-03	BT40xMLT20-80	145.4	80	20	55	2.3kg
62024-04	BT40xMLT20-100	165.4	100			2.5kg
62024-05	BT40xMLT20-135	200.4	135			2.8kg
62024-06	BT40xMLT32-90	155.4	90	32	73	2.7kg
62024-07	BT40xMLT32-105	170.4	105			2.7kg
62024-08	BT40xMLT32-135	200.4	135			3.0kg
62024-09	BT50xMLT20-105	206.8	105	20	55	4.5kg
62024-10	BT50xMLT20-150	251.8	150			4.9kg
62024-11	BT50xMLT32-110	211.8	110	32	73	5.2kg
62024-12	BT50xMLT32-135	236.8	135			5.9kg
62024-13	BT50xMLT32-165	266.8	165			6.6kg
62024-14	BT50xMLT42-110	211.8	110	42	95	6.0kg
62024-15	BT50xMLT42-130	231.8	130			6.5kg
62024-16	BT50xMLT42-165	266.8	165			7.4kg



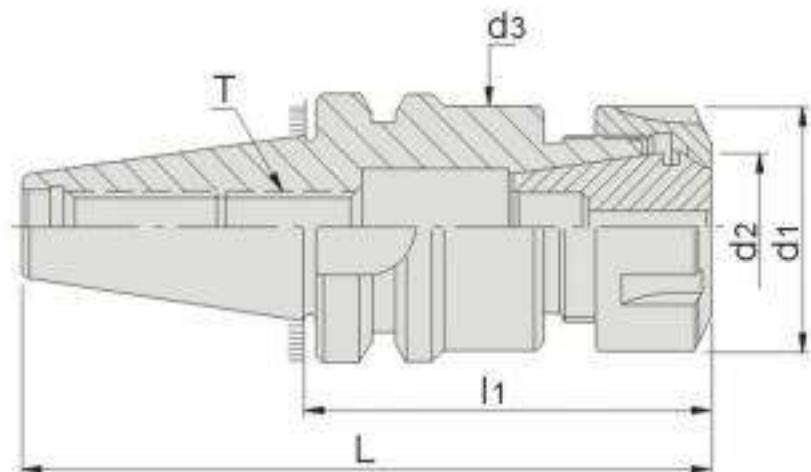
**62026** BT/ER ER Collet Chuck



**Feature:**

DIN ISO 15488

- ▶ Precision ground thread.
- ▶ ER16, ER20 Nuts are hex nut.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.
- ▶ Powerful Nut is optional accessory.



Unit:mm

Order No.	Model-d2-l1	L	d1	d2 ER	d3	T	Clamping Range	N.W.
62026-01	BT30xER16A-50	98.4	28	16	28	M10x1.5P	0.5~10.0	0.45kg
62026-02	BT30xER16A-70	118.4	28	16	28			0.55kg
62026-03	BT30xER16A-60	108.4	28	16	28			0.60kg
62026-04	BT30xER16A-100	148.4	28	16	28			0.80kg
62026-05	BT30xER16A-120	168.4	28	16	28			0.95kg
62026-06	BT30xER20A-50	98.4	34	20	34	M12x1.75P	1.0~13.0	0.48kg
62026-07	BT30xER20A-70	118.4	34	20	34			0.75kg
62026-08	BT30xER20A-135	183.4	34	20	34			1.15kg
62026-09	BT30xER25-70	118.4	42	25	42	M16x2.0P	1.0~16.0	0.70kg
62026-10	BT30xER25-135	183.4	42	25	42			1.45kg
62026-11	BT30xER32-70	118.4	50	32	45			0.85kg
62026-12	BT30xER32-100	148.4	50	32	45	M16x2.0P	2.0~20.0	1.00kg
62026-13	BT30xER40-80	128.4	63	40	53			3.0~26.0



# Tooling System

**62026**

BT/ER

ER Collet Chuck

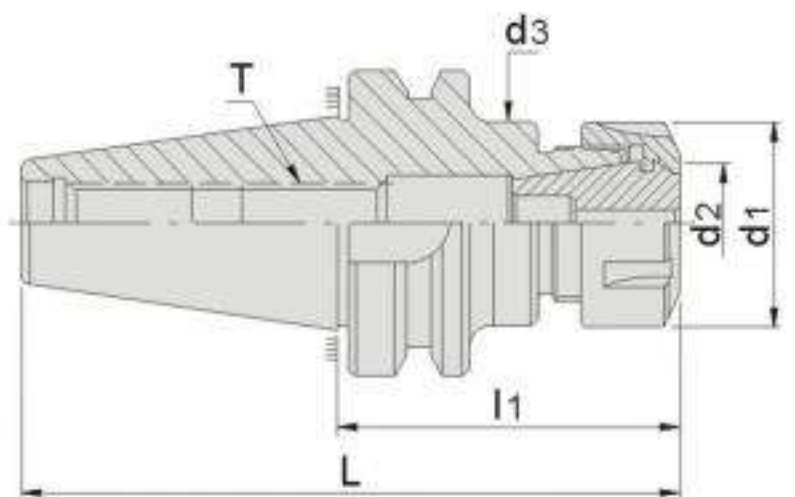
TOOLING SYSTEM



## Feature:

**DIN ISO 15488**

- ▶ Suitable for clamping end mill, drill, taper... etc.
- ▶ ER16, ER20 Nuts are hex nut.
- ▶ ER25, ER32, ER40, ER50 has standard UM/RD Nut.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.
- ▶ Powerful KM/RD Nut is optional accessory.



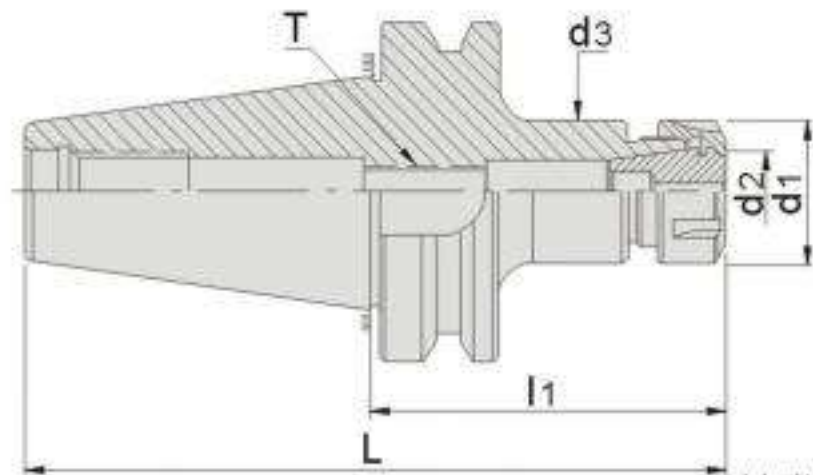
Unit:mm

Order No.	Model-d2-l1	L	d1	d2 ER	d3	T	Clamping Range	N.W.
62026-14	BT40xER16A-70	135.4	28	16	28	M10x1.5P	0.5~10.0	1.20kg
62026-15	BT40xER16A-100	165.4						1.30kg
62026-16	BT40xER16A-125	190.4						1.36kg
62026-17	BT40xER16A-150	215.4						1.54kg
62026-18	BT40xER16A-180	245.4						2.00kg
62026-19	BT40xER20A-70	135.4	34	20	34	M12x1.75P	1.0~13.0	1.40kg
62026-20	BT40xER20A-100	165.4						1.50kg
62026-21	BT40xER20A-135	200.4						1.70kg
62026-22	BT40xER20A-150	215.4						1.80kg
62026-23	BT40xER25-70	135.4	42	25	42	M16x2.0P	1.0~16.0	1.30kg
62026-24	BT40xER25-100	165.4						1.50kg
62026-25	BT40xER25-125	190.4						1.90kg
62026-26	BT40xER25-150	215.4						2.25kg
62026-27	BT40xER32-70	135.4						50
62026-28	BT40xER32-100	165.4	1.70kg					
62026-29	BT40xER32-150	215.4	2.50kg					
62026-30	BT40xER40-80	145.4	63	40	53	M20x2.0P	3.0~26.0	1.50kg
62026-31	BT40xER40-100	165.4						2.05kg
62026-32	BT40xER40-120	185.4						2.50kg
62026-33	BT40xER40-150	215.4						3.10kg
62026-34	BT40xER50-85	150.4	78	50	60	M24x2.0P	5.0~34.0	1.70kg
62026-35	BT40xER50-100	165.4						2.10kg




**Feature:**
**DIN ISO 15488**

- ▶ Suitable for clamping end mill, drill, taper... etc.
- ▶ ER16, ER20 Nuts are hex nut.
- ▶ ER25, ER32, ER40, ER50 has standard UM/RD Nut.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.
- ▶ Powerful KM/RD Nut is optional accessory.

**TOOLING SYSTEM**


Unit:mm

Order No.	Model-d2-l1	L	d1	d2 ER	d3	T	Clamping Range	N.W.			
62026-36	BT50xER16A-70	171.8	28	16	28	M10x1.5P	0.5~10.0	4.05kg			
62026-37	BT50xER16A-90	191.8						4.20kg			
62026-38	BT50xER16A-105	206.8						4.30kg			
62026-39	BT50xER16A-135	236.8						4.40kg			
62026-40	BT50xER16A-150	251.8						4.50kg			
62026-41	BT50xER16A-165	266.8						4.50kg			
62026-42	BT50xER20A-70	171.8	34	20	34	M12x1.75P	4.20kg				
62026-43	BT50xER20A-90	191.8					4.25kg				
62026-44	BT50xER20A-105	206.8					4.30kg				
62026-45	BT50xER20A-135	236.8					4.55kg				
62026-46	BT50xER20A-150	251.8					4.70kg				
62026-47	BT50xER20A-165	266.8					4.80kg				
62026-48	BT50xER20A-200	301.8	42	25	42	1.0~16.0	4.90kg				
62026-49	BT50xER25-70	171.8					4.20kg				
62026-50	BT50xER25-105	206.8					4.40kg				
62026-51	BT50xER25-135	236.8					4.70kg				
62026-52	BT50xER25-165	266.8					5.00kg				
62026-53	BT50xER25-200	301.8					5.50kg				
62026-54	BT50xER32-80	181.8	50	40	50	M16x2.0P	4.70kg				
62026-55	BT50xER32-100	201.8					4.80kg				
62026-56	BT50xER32-120	221.8					4.90kg				
62026-57	BT50xER32-150	251.8					5.30kg				
62026-58	BT50xER32-200	301.8					5.50kg				
62026-59	BT50xER40-80	181.8					63	40	63	M20x2.0P	4.30kg
62026-60	BT50xER40-100	201.8	4.40kg								
62026-61	BT50xER40-120	221.8	5.20kg								
62026-62	BT50xER40-135	236.8	5.50kg								
62026-63	BT50xER50-90	191.8	78	50	78	M24x2.0P					4.60kg
62026-64	BT50xER50-120	221.8									5.50kg
62026-65	BT50xER50-150	251.8					5.50kg				
62026-66	BT50xER50-165	266.8					6.10kg				



# Tooling System

**62032**

BT/ER

ER Collet Chuck(Type M)

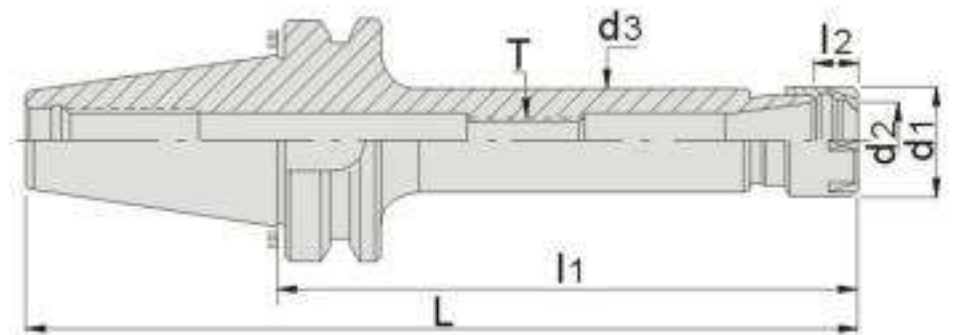
TOOLING SYSTEM



## Feature:

DIN ISO 15488

- ▶ Adopting small diameter screw nut avoiding interference.
- ▶ Apply correct wrench to lock avoiding any damage by misuse.
- ▶ Precision balancing is applied for G6.3, 10000 RPM. Balancing grade and rev. can be custom made for additional charge.



P.F95

P.F96

P.F80-82

Unit:mm

Order No.	Model-d2-l1	L	l2	d1	d2 ER	d3	T	Clamping Range	N.W.
62032-01	BT30xER11M-70	118.4							0.50kg
62032-02	BT30xER11M-100	148.4	6.6	16	11	15	M6x1.0P	0.5~0.7	0.60kg
62032-03	BT30xER11M-120	168.4							0.70kg
62032-04	BT30xER16M-70	118.4							0.55kg
62032-05	BT30xER16M-100	148.4	10.6	22	16	21	M10x1.5P	0.5~10.0	0.65kg
62032-06	BT30xER16M-120	168.4							0.75kg
62032-07	BT30xER20M-70	118.4							0.65kg
62032-08	BT30xER20M-100	148.4	11.5	28	20	27	M12x1.75P	1.0~13.0	0.70kg
62032-09	BT30xER20M-120	168.4							0.80kg
62032-10	BT30xER20M-150	198.4							1.00kg
62032-11	BT40xER11M-70	135.4							1.10kg
62032-12	BT40xER11M-100	165.4	6.6	16	11	15	M6x1.0P	0.5~7.0	1.20kg
62032-13	BT40xER11M-125	190.4							1.40kg
62032-14	BT40xER11M-150	215.4							1.50kg
62032-15	BT40xER16M-70	135.4							1.20kg
62032-16	BT40xER16M-100	165.4	10.6	22	16	21	M10x1.5P	0.5~10.0	1.30kg
62032-17	BT40xER16M-125	190.4							1.50kg
62032-18	BT40xER16M-150	215.4							1.60kg
62032-19	BT40xER20M-70	135.4							1.20kg
62032-20	BT40xER20M-100	165.4	11.5	28	20	27	M12x1.75P	1.0~13.0	1.55kg
62032-21	BT40xER20M-125	190.4							1.70kg
62032-22	BT40xER20M-150	215.4							1.80kg



**62032** BT/ER ER Collet Chuck(Type M)

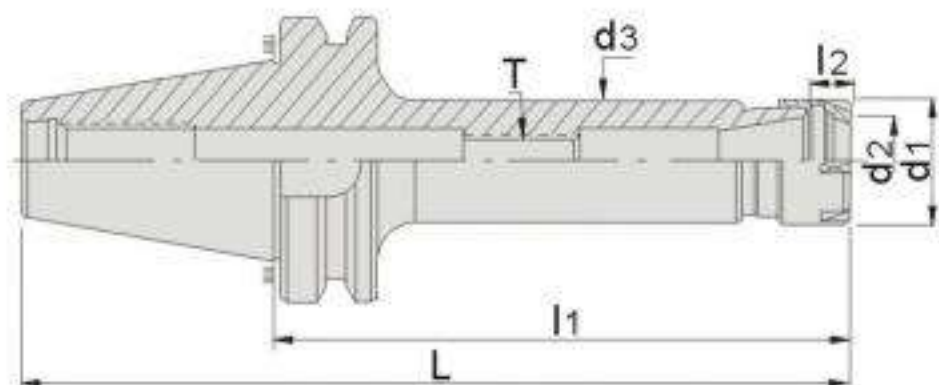


**Feature:**

**DIN ISO 15488**

- ▶ Adopting small diameter screw nut avoiding interference.
- ▶ Apply correct wrench to lock avoiding any damage by misusage.
- ▶ Precision balancing is applied for G6.3, 10000 RPM. Balancing grade and rev. can be custom made for
- ▶ additional charge.

TOOLING SYSTEM



Order No.	Model-d2-l1	L	l2	d1	d2 ER	d3	T	Clamping Range	N.W.
62032-23	BT50xER11M-70	171.8	6.6	16	11	15	M6x1.0P	0.5~0.7	3.8kg
62032-24	BT50xER11M-90	191.8							3.9kg
62032-25	BT50xER11M-105	206.8							4.0kg
62032-26	BT50xER11M-135	236.8							4.1kg
62032-27	BT50xER11M-165	266.8							4.2kg
62032-28	BT50xER16M-70	171.8	10.6	22	16	21	M10x1.5P	0.5~10.0	3.9kg
62032-29	BT50xER16M-90	191.8							4.0kg
62032-30	BT50xER16M-105	206.8							4.1kg
62032-31	BT50xER16M-135	236.8							4.2kg
62032-32	BT50xER16M-165	266.8							4.3kg
62032-33	BT50xER20M-90	191.8	11.5	28	20	27	M12x1.75P	1.0~13.0	4.1kg
62032-34	BT50xER20M-105	206.8							4.2kg
62032-35	BT50xER20M-135	236.8							4.4kg
62032-36	BT50xER20M-165	266.8							4.6kg

Unit:mm

# Tooling System

**62036**

BT/SLN

Side Lock End Mill Holder

TOOLING SYSTEM



Fig.1

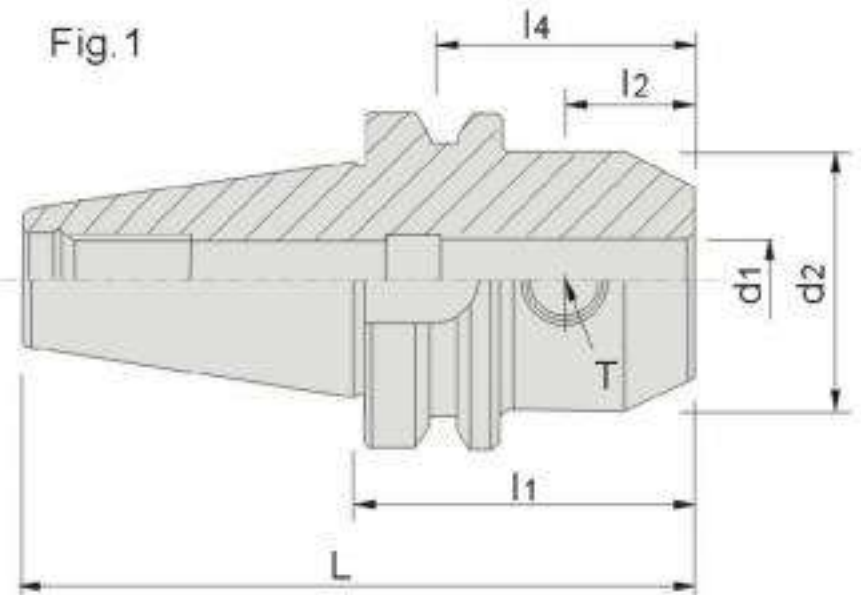


Fig.2

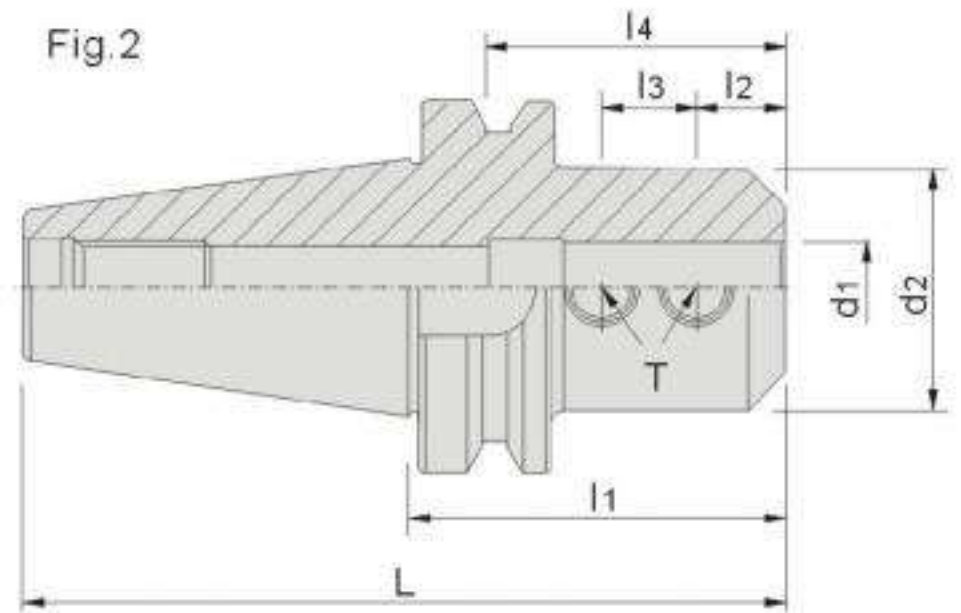
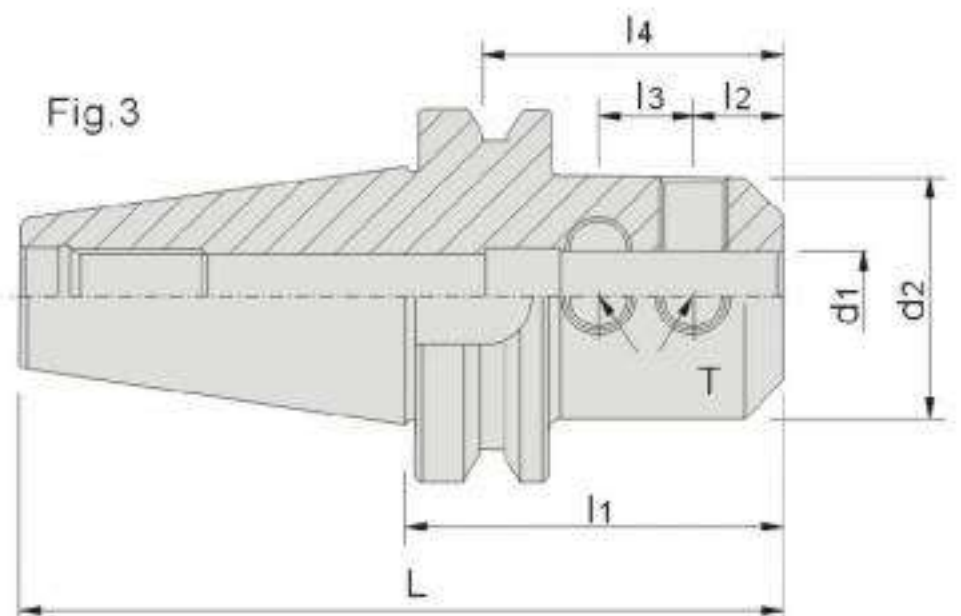


Fig.3





Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	T	Fig.	N.W.			
62036-01	BT30xSLN6-60	108.4	18	-	40	25	M6x1.0P	1	0.55kg			
62036-02	BT30xSLN8-60					28	M8x1.25P		0.60kg			
62036-03	BT30xSLN10-60		20		44	35	M10x1.5P		0.70kg			
62036-04	BT30xSLN12-60		22.5		49	42	M12x1.75P		0.75kg			
62036-05	BT30xSLN16-75	123.4	24	-	52	48	-	-	1.05kg			
62036-06	BT30xSLN20-75		25						54	52	M16x2.0P	1.10kg
62036-07	BT30xSLN25-90	138.4	24		25	59			65	M18x2.0P	2	1.70kg
62036-08	BT40xSLN6-50	115.4	18		-	40			25	-	1	1.10kg
62036-09	BT40xSLN6-150	215.4		M6x1.0P			1.32kg					
62036-10	BT40xSLN8-50	115.4		28			M8x1.25P	1.10kg				
62036-11	BT40xSLN8-150	215.4		M10x1.5P			1.30kg					
62036-12	BT40xSLN10-63	128.4	20	-	44	35	-	1	1.25kg			
62036-13	BT40xSLN10-150	215.4							M10x1.5P	1.40kg		
62036-14	BT40xSLN12-63	128.4	22.5		49	42			M12x1.75P	1.30kg		
62036-15	BT40xSLN12-150	215.4								M12x1.75P	1.53kg	
62036-16	BT40xSLN16-63	128.4	24	-	52	48	-	1	1.40kg			
62036-17	BT40xSLN16-150	215.4							M14x2.0P	1.60kg		
62036-18	BT40xSLN18-63	128.4			25	54			50	M16x2.0P	1.65kg	
62036-19	BT40xSLN20-63										M16x2.0P	1.40kg
62036-20	BT40xSLN25-100	165.4	24	25	59	65	M18x2.0P	2	2.50kg			
62036-21	BT40xSLN32-100			28	63	72	M20x2.0P		2.75kg			
62036-22	BT50xSLN6-63	164.8	18	-	40	25	M6x1.0P	1	3.80kg			
62036-23	BT50xSLN8-63					28	M8x1.25P		3.80kg			
62036-24	BT50xSLN10-63		20		44	35	M10x1.5P		3.00kg			
62036-25	BT50xSLN12-80		22.5		49	42	M12x1.75P		4.00kg			
62036-26	BT50xSLN16-80	181.8	24	-	52	48	-	1	4.40kg			
62036-27	BT50xSLN20-80		25						54	52	M16x2.0P	4.40kg
62036-28	BT50xSLN25-100	201.8	24		25	59			65	M18x2.0P	2	5.10kg
62036-29	BT50xSLN32-105	206.8			28	63			72	M20x2.0P		5.20kg
62036-30	BT50xSLN40-115	216.8	30	32	73	90	M20x2.0P	2	6.60kg			
62036-31	BT50xSLN40-120	221.8							35	35	78	100
62036-32	BT50xSLN42-120			33.1	28.58	78	95	M20x2.0P	3	6.70kg		
62036-33	BT50xSLN50-120			33.1	25.58					6.80kg		
62036-34	BT50xSLN50.8-120			33.1	25.58	78	95	M20x2.0P	6.80kg			
62036-35	BT50xSLN50.8-120			33.1	25.58	80	125	M16x2.0P	6.60kg			
62036-36	BT50xSLN63-120		33.1	25.58	80	125	M16x2.0P	6.60kg				





# Tooling System

## 62038

### BT/SLN

### Side Lock End Mill Holder

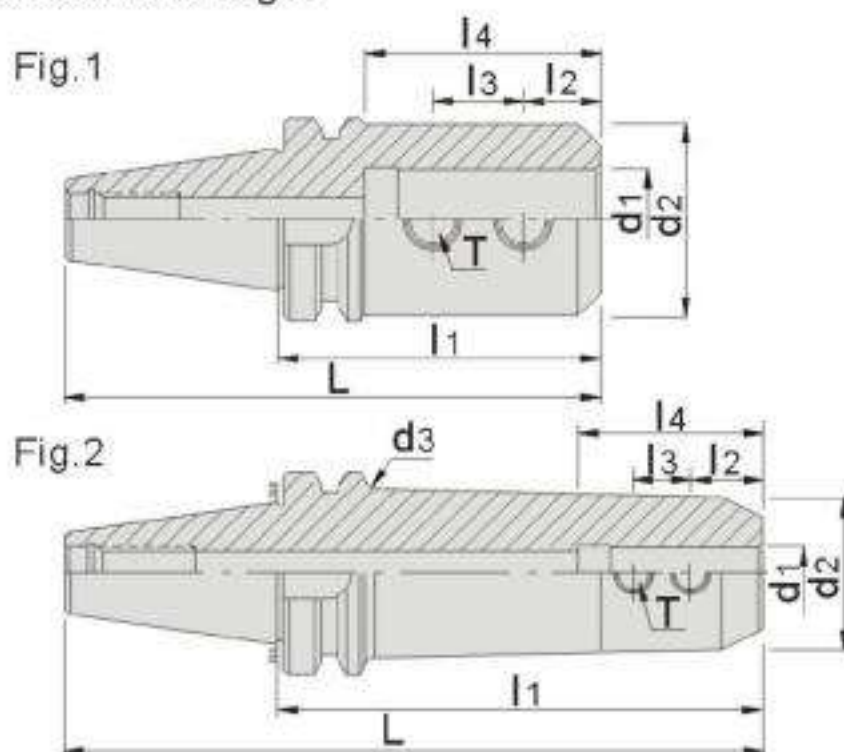
TOOLING SYSTEM



### Feature:

JIS

- ▶ Inner dia. tolerance: H5.
- ▶ Attach with two side lock screw.
- ▶ Center cool down (DIN 69871-AD)
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	d3	T	Fig.	N.W.
62038-01	BT40xSLN6-75J	140.4	12	10	45	25	-	M6x1.0P	1	1.30kg
62038-02	BT40xSLN6-150J	215.4	12	10	45	25	30		2	1.50kg
62038-03	BT40xSLN8-75J	140.4	14	12	45	28	-	M8x1.25P	1	1.30kg
62038-04	BT40xSLN8-150J	215.4	14	12	45	28	33		2	1.50kg
62038-05	BT40xSLN10-75J	140.4	15	14	49	35	-	M10x1.5P	1	1.30kg
62038-06	BT40xSLN10-150J	215.4	15	14	49	24	40		2	1.50kg
62038-07	BT40xSLN12-75J	140.4	20	16	54	42	-	M10x1.5P	1	1.50kg
62038-08	BT40xSLN12-150J	215.4	20	16	54	42	47		2	1.70kg
62038-09	BT40xSLN16-75J	140.4	22	18	57	48	-	M12x1.75P	1	1.50kg
62038-10	BT40xSLN16-150J	215.4	22	18	57	48	53		2	1.70kg
62038-11	BT40xSLN20-90J	155.4	25	20	65	50	-	M12x1.75P	1	1.60kg
62038-12	BT40xSLN20-150J	215.4	25	20	65	50	57		2	1.80kg
62038-13	BT40xSLN25-90J	155.4	24	25	68	50	-	M16x2.0P	1	2.50kg
62038-14	BT40xSLN32-100J	165.4	24	28	73	60	47		1	2.75kg
62038-15	BT50xSLN6-75J	176.8	12	10	45	25	47	M6x1.0P	1	3.90kg
62038-16	BT50xSLN8-75J	176.8	14	12	45	28	47		1	3.90kg
62038-17	BT50xSLN10-75J	176.8	15	14	49	35	47	M10x1.5P	1	3.90kg
62038-18	BT50xSLN12-90J	191.8	20	16	54	42	47		1	3.90kg
62038-19	BT50xSLN12-165J	266.8	20	16	54	42	47	M10x1.5P	2	5.00kg
62038-20	BT50xSLN16-90J	191.8	22	18	57	48	-		1	3.90kg
62038-21	BT50xSLN16-165J	266.8	22	18	57	48	53	M12x1.75P	2	5.00kg
62038-22	BT50xSLN20-90J	191.8	25	20	65	50	-		1	4.50kg
62038-23	BT50xSLN20-165J	266.8	25	20	65	50	57	M12x1.75P	2	6.00kg
62038-24	BT50xSLN20-210J	311.8	25	20	65	50	57		2	7.00kg




**Feature:**
**JIS**

- ▶ Inner dia. tolerance: H5.
- ▶ Attach with two side lock screw.
- ▶ Center cool down (DIN 69871-AD)
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

Fig.1

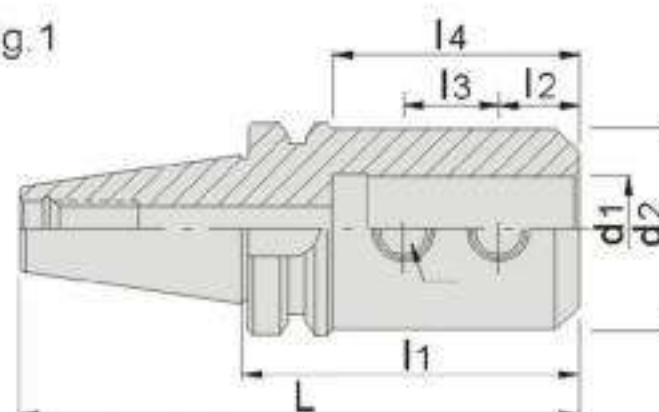
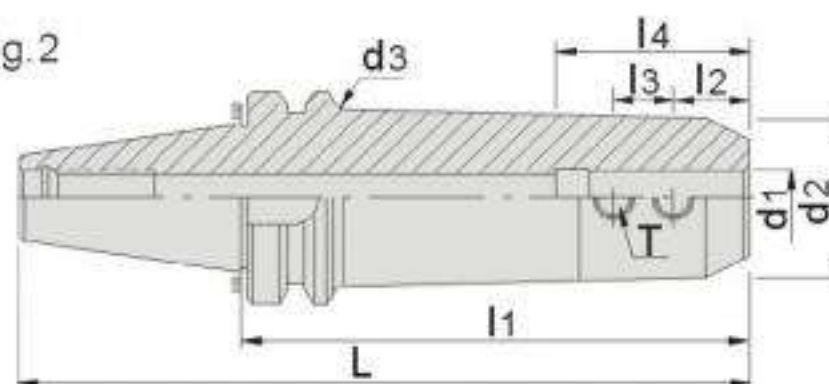


Fig.2



Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	d3	T	Fig.	N.W.
62038-25	BT50xSLN25-100J	201.8	24	25	68	50	-	M12x1.75P	1	4.5kg
62038-26	BT50xSLN25-165J	266.8	24	25	68	50	57		2	5.5kg
62038-27	BT50xSLN25-210J	311.8	24	25	68	50	57		2	6.0kg
62038-28	BT50xSLN25-250J	351.8	24	25	68	50	57		2	7.0kg
62038-29	BT50xSLN32-105J	206.8	24	28	73	60	-	M16x2.0P	1	4.8kg
62038-30	BT50xSLN32-165J	266.8	24	28	73	50	60		2	6.2kg
62038-31	BT50xSLN32-210J	311.8	24	28	73	50	60		2	6.3kg
62038-32	BT50xSLN32-250J	351.8	24	28	73	50	60		2	7.5kg
62038-33	BT50xSLN32-300J	401.8	24	28	73	60	65		2	8.0kg



# Tooling System

## 62040

### BT/FMA

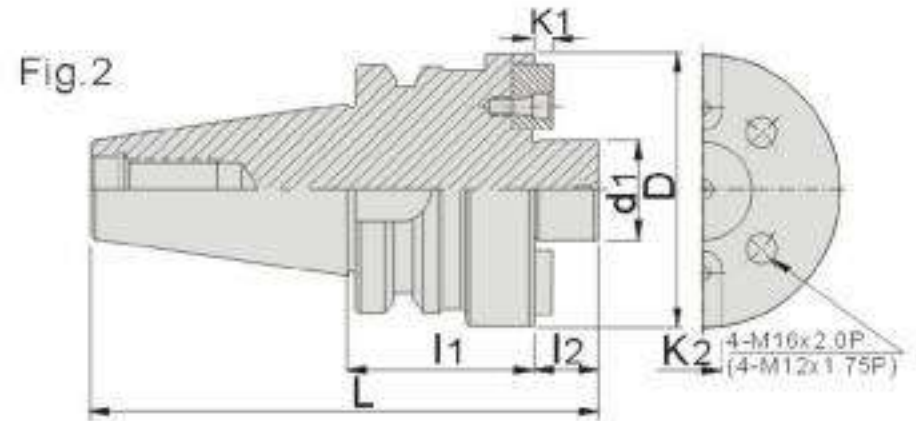
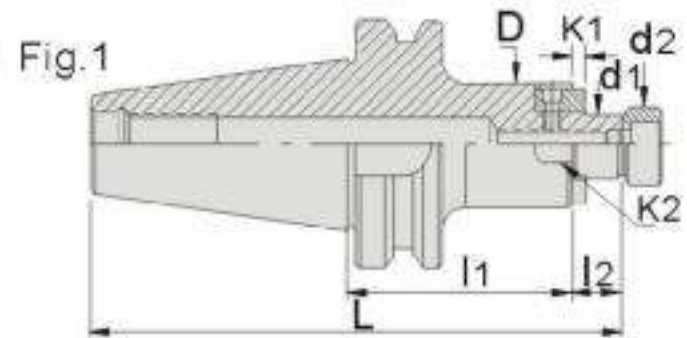
### Face Mill Arbor

TOOLING SYSTEM



### Feature:

- ▶ D1 tolerance: h6.
- ▶ 7/24 Taper tolerance: AT3
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

Order No.	Model-d1-l1	L	l1	l2	D	d1	d2	K1	K2	Fig.	N.W.
62040-01	BT30xFMA25.4-45	113.4	45	20	50	25.4	31.5	4.52	9.52	1	1.10kg
62040-02	BT30xFMA25.4-60	128.4	60								1.30kg
62040-03	BT30xFMA31.75-45	115.4	45	22	60	31.75	41	6.7	12.7		1.35kg
62040-04	BT40xFMA25.4-45	130.4	45	20	50	25.4	31.5	4.52	9.52		1.80kg
62040-05	BT40xFMA25.4-60	145.4	60								2.00kg
62040-06	BT40xFMA25.4-90	175.4	90								2.60kg
62040-07	BT40xFMA25.4-105	190.4	105								2.70kg
62040-08	BT40xFMA31.75-45	132.4	45	22	60	31.75	41	6.7	12.7		2.00kg
62040-09	BT40xFMA31.75-75	162.4	75								2.70kg
62040-10	BT40xFMA31.75-90	177.4	90								2.90kg
62040-11	BT40xFMA38.10-60	150.4	60	25	75	38.1	44.5	8.87	15.87	2.80kg	
62040-12	BT40xFMA50.80-60	161.4	60	36	98	50.8	65	9.75	19.05	4.00kg	
62040-13	BT50xFMA25.4-45	166.8	45	20	50	25.4	31.5	4.52	9.52	4.40kg	
62040-14	BT50xFMA25.4-90	211.8	90							5.10kg	
62040-15	BT50xFMA25.4-150	271.8	150							6.10kg	
62040-16	BT50xFMA31.75-45	168.8	45	22	60	31.75	41	6.2	12.7	4.50kg	
62040-17	BT50xFMA31.75-75	198.8	75					6.7		5.30kg	
62040-18	BT50xFMA31.75-105	228.8	105					5.70kg			
62040-19	BT50xFMA38.10-45	171.8	45	25	80	38.1	44.5	8.87	15.87	4.80kg	
62040-20	BT50xFMA38.10-75	210.8	75							6.00kg	
62040-21	BT50xFMA50.80-45	182.8	45	36	98	50.8	65	9.75	19.05	5.70kg	
62040-22	BT50xFMA50.80-75	212.8	75							6.80kg	
62040-23	BT50xFMA47.62-75	208.8	75	32	128.75	47.62	-	12.5	25.4	2	7.90kg



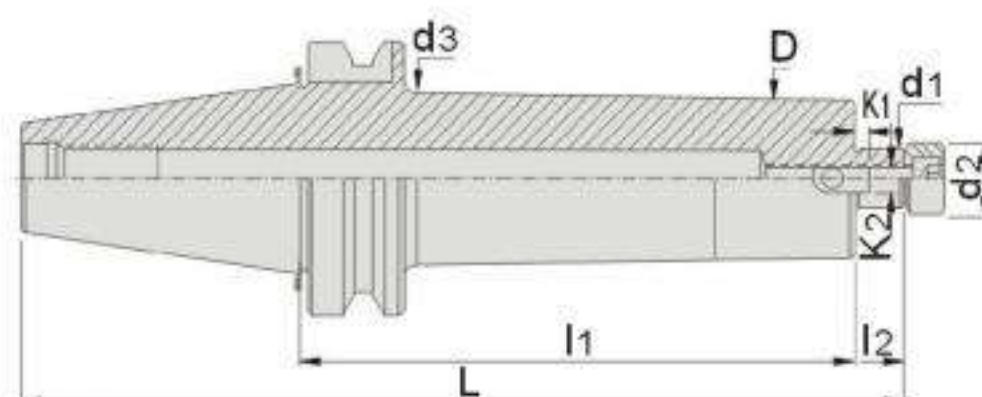
**62042**
**BT/FMA**
**Face Mill Arbor-Extension Type**

**Feature:**

- ▶ d1 tolerance: h6.
- ▶ Through hole design for better anti-vibration and coolant through.
- ▶ Taper design for better rigidity.
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

**Extended type**

Note: Boring Head is optional.



Unit: mm

Order No.	Model-d1-l1	L	l1	l2	D	d1	d2	d3	K1	K2	N.W.
62042-01	BT50xFMA25.4-125BG	246.8	125	20	48	25.4	31.5	60	4.25	9.52	5.3kg
62042-02	BT50xFMA25.4-150BG	271.8	150								6.4kg
62042-03	BT50xFMA25.4-200BG	321.8	200		58			63			7.5kg
62042-04	BT50xFMA25.4-250BG	371.8	250								8.6kg
62042-05	BT50xFMA25.4-300BG	421.8	300		66			75			9.7kg
62042-06	BT50xFMA25.4-350BG	471.8	350								10.8kg
62042-07	BT50xFMA25.4-400BG	521.8	400		22			70			31.75
62042-08	BT50xFMA31.75-125BG	248.8	125	5.6kg							
62042-09	BT50xFMA31.75-150BG	273.8	150	6.3kg							
62042-10	BT50xFMA31.75-175BG	298.8	175	8.3kg							
62042-11	BT50xFMA31.75-200BG	323.8	200	9.1kg							
62042-12	BT50xFMA31.75-250BG	373.8	250	10.6kg							
62042-13	BT50xFMA31.75-300BG	423.8	300	12.1kg							
62042-14	BT50xFMA31.75-350BG	473.8	350	13.6kg							



# Tooling System

**62044**

BT/FMB

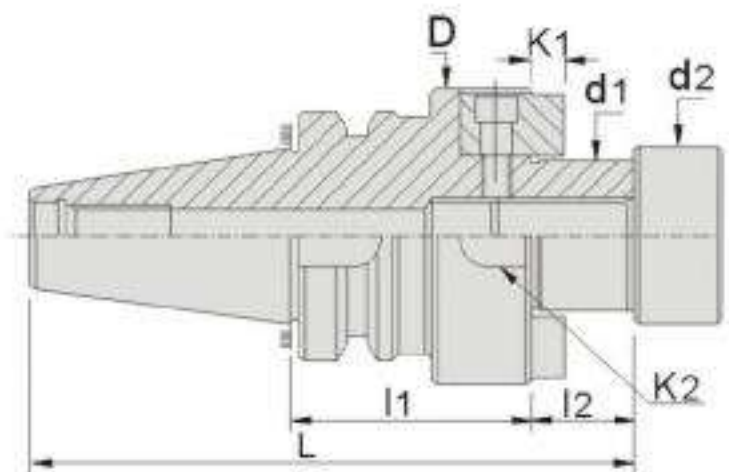
Face Mill Arbor

TOOLING SYSTEM



## Feature:

- ▶ d1 tolerance: h6.
- ▶ 7/24 Taper tolerance: AT3.
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

Order No.	Model-d1-l1	L	l1	l2	D	d1	d2	K1	K2	N.W.
62044-01	BT30xFMB22-45	115.4	45	19	48	22	26	4.8	10	0.85kg
62044-02	BT30xFMB22-60	127.4	60							1.25kg
62044-03	BT30xFMB27-45	113.4	45	20	60	27	31.5	5.8	12	1.20kg
62044-04	BT30xFMB27-60	128.4	60							1.35kg
62044-05	BT30xFMB32-45	115.4	45	22	78	32	41	6.8	14	1.35kg
62044-06	BT40xFMB22-45	129.4	45							1.45kg
62044-07	BT40xFMB22-60	144.4	60	19	48	22	26	4.8	10	1.70kg
62044-08	BT40xFMB22-100	184.4	100							2.20kg
62044-09	BT40xFMB27-45	130.4	45	20	60	27	31.5	5.8	12	1.60kg
62044-10	BT40xFMB27-60	145.4	60							2.00kg
62044-11	BT40xFMB27-90	175.4	90	22	78	32	41	6.8	14	2.30kg
62044-12	BT40xFMB27-105	190.4	105							2.50kg
62044-13	BT40xFMB32-45	132.4	45	22	78	32	41	6.8	14	1.75kg
62044-14	BT40xFMB32-60	147.4	60							2.10kg
62044-15	BT40xFMB40-60	150.4	60	25	80	40	48	8.3	16	2.80kg




**Feature:**

- ▶ d1 tolerance: h6.
- ▶ 7/24 Taper tolerance: AT3.
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

Fig.1

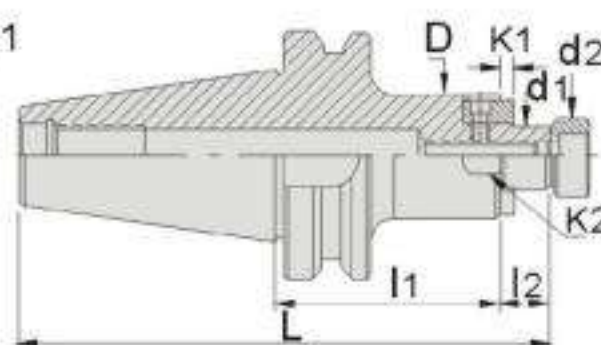
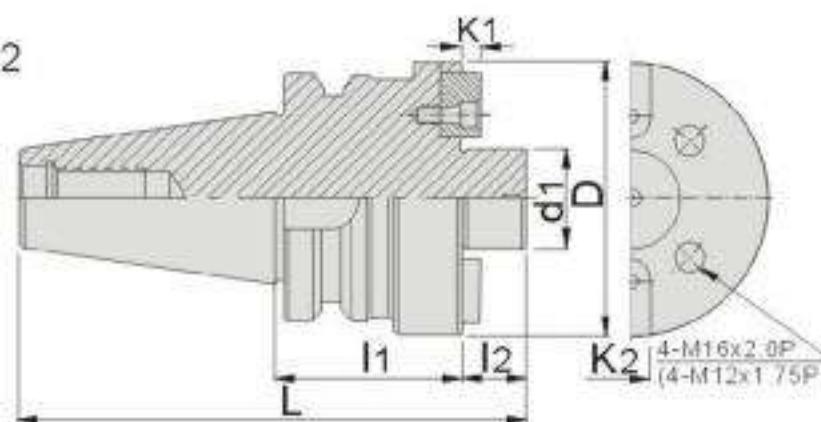


Fig.2



Unit:mm

Order No.	Model-d1-l1	L	l1	l2	D	d1	d2	K1	K2	Fig.	N.W.
62044-16	BT50xFMB22-45	165.8	45	19	48	22	26	4.8	10	1	4.5kg
62044-17	BT50xFMB22-90	210.8	90								5.1kg
62044-18	BT50xFMB22-150	270.8	150								6.8kg
62044-19	BT50xFMB22-200	320.8	200								7.0kg
62044-20	BT50xFMB22-250	370.8	250								8.0kg
62044-21	BT50xFMB27-50	171.8	50	20	60	27	31.5	5.8	12		4.6kg
62044-22	BT50xFMB27-90	211.8	90								5.4kg
62044-23	BT50xFMB27-150	271.8	150								7.5kg
62044-24	BT50xFMB27-200	321.8	200								9.5kg
62044-25	BT50xFMB27-250	371.8	250								11.0kg
62044-26	BT50xFMB32-50	173.8	50	22	78	32	41	6.8	14		5.7kg
62044-27	BT50xFMB32-90	213.8	90							5.8kg	
62044-28	BT50xFMB40-50	176.8	50							25	89
62044-29	BT50xFMB40-90	216.8	90	6.0kg							
62044-30	BT50xFMB40-105	231.8	105	7.2kg							
62044-31	BT50xFS40F-75	202.8	75	26	110	40	-	8.3	16	2	6.0kg
62044-32	BT50xFS60F-75	201.8	75	25	138	60	-	12.5	25.4		8.5kg



# Tooling System

## 62046 BT/FMB Face Mill Arbor-Extension Type

TOOLING SYSTEM

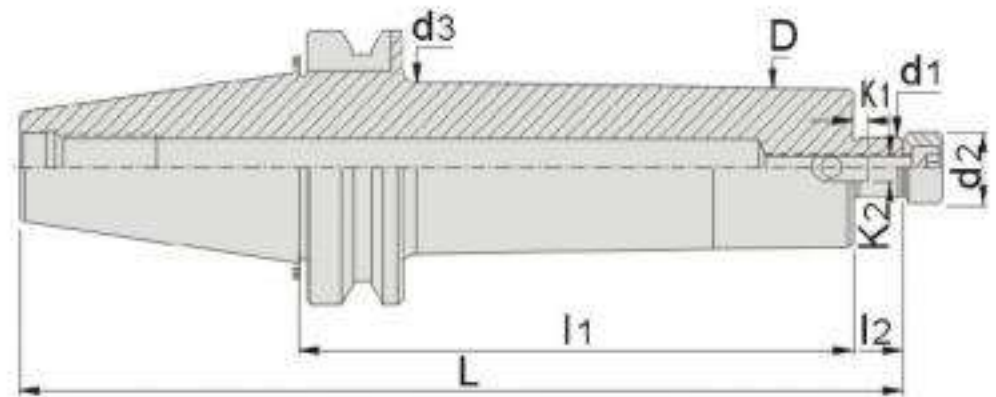


### Feature:

- ▶ d1 tolerance: h6.
- ▶ Through hole design for better anti-vibration and coolant through.
- ▶ Taper design for better rigidity.
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

### Extended type

Note: Boring Head is optional.



Unit:mm

Order No.	Model-d1-l1	L	l1	l2	D	d1	d2	d3	K1	K2	N.W.
62046-01	BT40xFMB22-150BG	233.4	150	18	48	22	31.75	51	4.25	9.52	3.1kg
62046-02	BT40xFMB22-200BG	283.4	200								4.0kg
62046-03	BT40xFMB22-250BG	333.4	250								4.9kg
62046-04	BT50xFMB22-150BG	271.8	150	20	58	22	31.75	62.5	4.25	9.52	6.8kg
62046-05	BT50xFMB22-200BG	321.8	200								8.4kg
62046-06	BT50xFMB22-250BG	371.8	250								9.4kg
62046-07	BT50xFMB22-300BG	421.8	300								10.4kg
62046-08	BT50xFMB22-350BG	471.8	350								11.4kg
62046-09	BT50xFMB22-400BG	521.8	400								12.4kg
62046-10	BT50xFMB22-450BG	571.8	450								13.4kg
62046-11	BT50xFMB22-500BG	621.8	500	14.4kg							




**Feature:**
**DIN 228-B**

- ▶ Suitable for morse taper drill.
- ▶ High precision work process and keep concentricity within 0.015mm even with Extended drill.

Fig.1

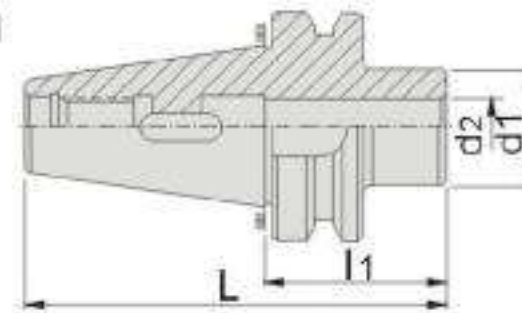
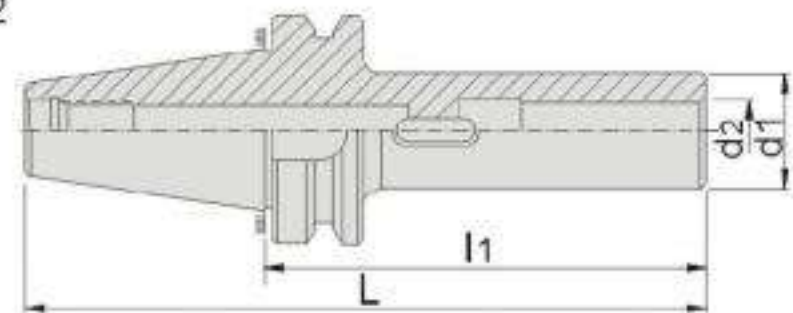


Fig.2



Unit:mm

Order No.	Model-MTA-l1	L	l1	d1	d2	Fig.	N.W.
62048-01	BT30xMTA1-45	93.4	45	25	12.065	1	0.55kg
62048-02	BT30xMTA1-105	153.4	105			2	0.80kg
62048-03	BT30xMTA2-60	108.4	60	32	17.78	1	0.60kg
62048-04	BT30xMTA2-120	168.4	120			2	0.90kg
62048-05	BT30xMTA3-80	128.4	80	40	23.825	1	0.80kg
62048-06	BT40xMTA1-45	110.4	45	25	12.065	1	1.05kg
62048-07	BT40xMTA1-120	185.4	120			2	1.40kg
62048-08	BT40xMTA2-50	115.4	50	32	17.78	1	1.10kg
62048-09	BT40xMTA2-120	185.4	120			2	1.80kg
62048-10	BT40xMTA3-70	135.4	70	40	23.825	1	1.20kg
62048-11	BT40xMTA3-135	200.4	135			2	1.90kg
62048-12	BT40xMTA4-95	160.4	95	48	31.267	1	1.40kg
62048-13	BT40xMTA4-165	230.4	165			2	2.50kg
62048-14	BT50xMTA1-45	146.8	45	25	12.065	1	3.80kg
62048-15	BT50xMTA1-120	221.8	120			2	4.30kg
62048-16	BT50xMTA1-180	281.8	180			2	5.00kg
62048-17	BT50xMTA2-60	161.8	60	32	17.78	1	4.00kg
62048-18	BT50xMTA2-135	236.8	135			2	4.70kg
62048-19	BT50xMTA2-180	281.8	180			2	5.00kg
62048-20	BT50xMTA3-65	166.8	65	40	23.825	1	3.90kg
62048-21	BT50xMTA3-150	251.8	150			2	5.00kg
62048-22	BT50xMTA3-180	281.8	180			2	5.50kg
62048-23	BT50xMTA4-95	196.8	95	48	31.267	1	4.20kg
62048-24	BT50xMTA4-180	281.8	180			2	5.50kg
62048-25	BT50xMTA5-105	206.8	105	63	44.399	1	4.30kg



# Tooling System

**62050**

**BT/MTB**

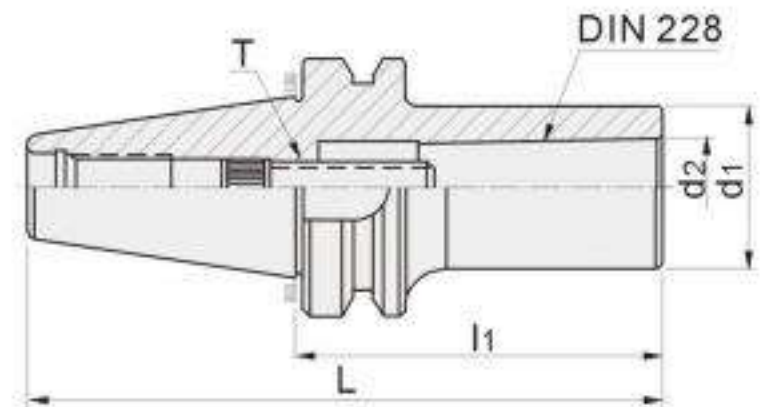
**Morse Taper Adapter**



**Feature:**

**DIN 6364**

- High precision work process and keep concentricity within 0.015mm even with Extended drill.



Please specify screw spec., Inch or Metric unit when ordering.

Unit:mm

Order No.	Model-MTB-l1	L	l1	d1	d2	T	N.W.			
62050-01	BT30xMTB1-45	93.4	45	25	12.065	M6(M6*1.0P) A01(1/4"-20)	0.55kg			
62050-02	BT30xMTB2-60	108.4	60	32	17.78	M10(M10*1.5P) A02(3/8"-16)	0.60kg			
62050-03	BT40xMTB1-45	110.4	45	25	12.065	M6(M6*1.0P) A01(1/4"-20)	1.05kg			
62050-04	BT40xMTB2-45	110.4	45	32	17.78	M10(M10*1.5P) A02(3/8"-16)	1.85kg			
62050-05	BT40xMTB2-185	250.4	185	32	17.78	M10(M10*1.5P) A02(3/8"-16)	2.20kg			
62050-06	BT40xMTB3-75	140.4	75	40	23.825	M12(M12*1.75P) A04(1/2"-12)	1.30kg			
62050-07	BT40xMTB3-90	155.4	90				1.40kg			
62050-08	BT40xMTB3-120	185.4	120				1.80kg			
62050-09	BT40xMTB3-180	245.4	180	48	31.267	M16(M16*2.0P) A06(5/8"-11)	2.40kg			
62050-10	BT40xMTB4-100	165.4	100				1.60kg			
62050-11	BT40xMTB4-120	185.4	120				1.80kg			
62050-12	BT40xMTB4-180	245.4	180	63	44.399	M24(M24*3.0P) A07(1"-8)	2.60kg			
62050-13	BT50xMTB1-45	146.8	45				25	12.065	M6(M6*1.0P) A01(1/4"-20)	3.80kg
62050-14	BT50xMTB2-45	146.8	45				32	17.78	M10(M10*1.5P) A02(3/8"-16)	3.90kg
62050-15	BT50xMTB3-60	161.8	60	40	23.825	M12(M12*1.75P) A04(1/2"-12)	3.90kg			
62050-16	BT50xMTB4-75	176.8	75	48	31.267	M16(M16*2.0P) A06(5/8"-11)	4.20kg			
62050-17	BT50xMTB5-120	221.8	120	63	44.399	M24(M24*3.0P) A07(1"-8)	4.30kg			

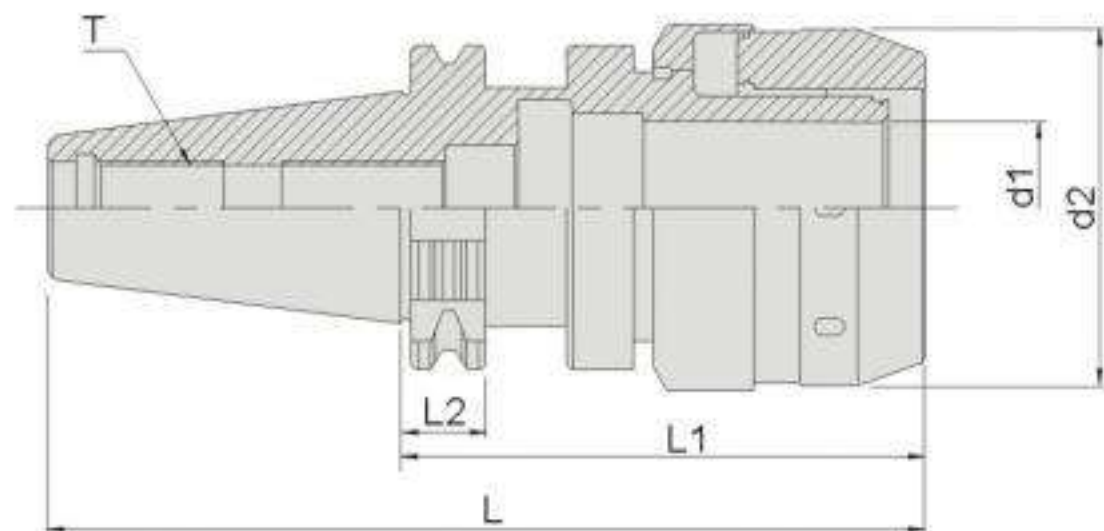


**62052**    **DAT/C**    **Multi-Lock Milling Chuck**



**Feature:**

- ▶ Six slots internally to prevent slippery and enhance clamping force.
- ▶ Needle bearing to minimize the friction and loosen possibility.
- ▶ Water and dust proof and such design does not over tighten.
- ▶ Seal design to eliminate dust and chips.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



**P.F96**    **P.F75**

Unit:mm

Order No.	Model-d1-l1	L	L1	L2	d1	d2	T
62052-01	DAT30-C20-80	127.8	80	19.1	20	55	M12x1.75
62052-02	DAT40-C20-80	148.4	80	19.1	32	68.5	M16x2.0
62052-03	DAT40-C20-100	168.4	100	19.1	32	68.5	
62052-04	DAT40-C20-135	203.4	135	19.1	32	68.5	
62052-05	DAT40-C25-80	148.4	80	19.1	32	68.5	
62052-06	DAT40-C25-100	168.4	100	19.1	32	68.5	
62052-07	DAT40-C32-90	158.4	90	19.1	32	68.5	
62052-08	DAT40-C32-105	173.4	105	19.1	32	68.5	
62052-09	DAT40-C32-135	203.4	135	19.1	32	68.5	
62052-10	DAT50-C32-110	211.75	110	19.1	32	68.5	
62052-11	DAT50-C32-135	236.75	135	19.1	32	68.5	
62052-12	DAT50-C32-165	266.75	165	19.1	32	68.5	
62052-13	DAT50-C32-200	301.75	200	19.1	32	68.5	
62052-14	DAT50-C42-110	211.75	110	19.1	42	92	



# Tooling System

**62054**

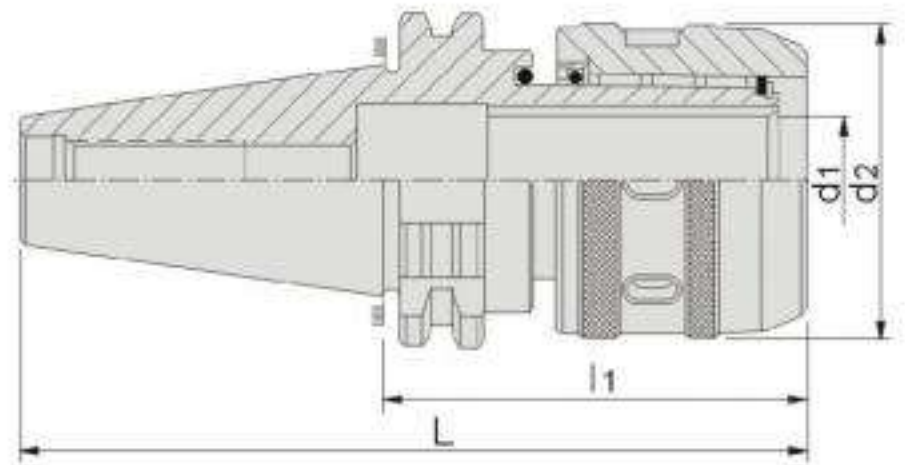
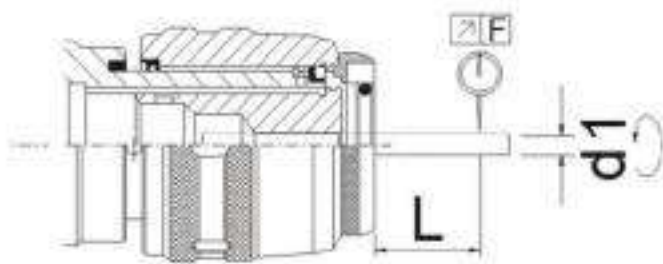
DAT/MLT

Multi-Lock Milling Chuck



## Feature:

- ▶ Water and dust proof and such design does not over tighten.
- ▶ Seal design to eliminate dust and chips.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

<b>d1</b>	<b>END MILL DIAMETER</b>	6	8	10	12	16	20	25	32	42
<b>L</b>	<b>END MILL LENGTH</b>	25	30	30	40	40	50	50	60	60
<b>F</b>	<b>CONCENTRICITY</b>	0.02								

<b>L</b>	MLT20	60
	MLT32	80
	MLT40	100
<b>F</b>	<b>CONCENTRICITY</b>	0.001~0.005



P.F96

P.F75

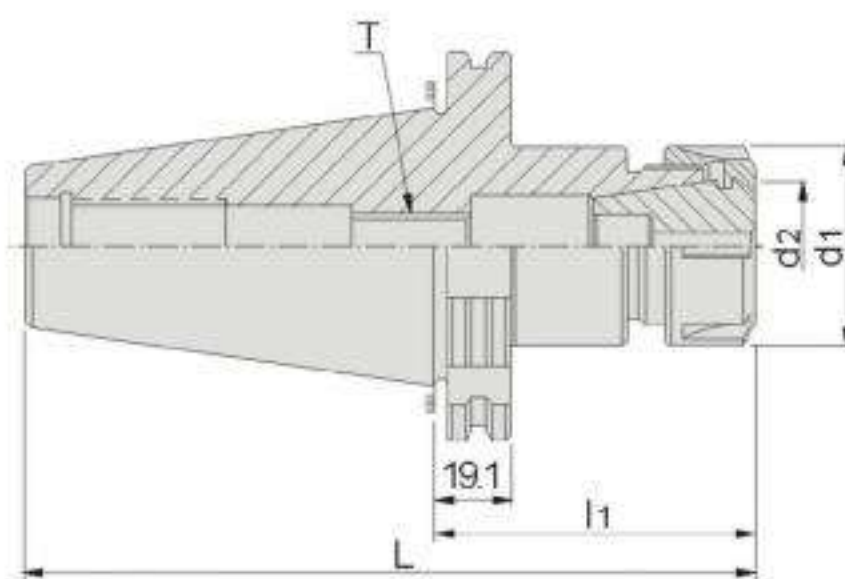
Unit:mm

Order No.	Model	L	l1	d1	d2	N.W.
62054-01	DAT30xMLT20-85	132.8	85	20	55	1.9kg
62054-02	DAT30xMLT20-100	147.8	100			2.1kg
62054-03	DAT40xMLT20-85	153.4	85			2.4kg
62054-04	DAT40xMLT20-100	168.4	100			2.5kg
62054-05	DAT40xMLT20-135	203.4	135			2.8kg
62054-06	DAT40xMLT32-105	173.4	105	32	73	2.7kg
62054-07	DAT40xMLT32-135	203.4	135			3.0kg
62054-08	DAT50xMLT20-105	206.75	105	20	55	4.5kg
62054-09	DAT50xMLT20-150	251.75	150			4.9kg
62054-10	DAT50xMLT32-105	206.75	105	32	73	5.1kg
62054-11	DAT50xMLT32-135	236.75	135			5.9kg
62054-12	DAT50xMLT42-110	211.75	110	42	95	6.0kg




**Feature:**
**DIN ISO 15488**

- ▶ Precision ground threads.
- ▶ ER16, ER20 nut are hex nuts.
- ▶ Powerful nut is optional.
- ▶ Precision balancing is applied for G6.3, 10000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.


**P.F95**
**P.F96**
**P.F80~84**

Unit: mm

Order No.	Model-d2-l1	L	d1	d2	T	Range	N.W.
<b>62056-01</b>	DAT30xER11A-80	127.8	19	11	M6x1.0P	0.5~7.0	0.60kg
<b>62056-02</b>	DAT30xER16A-63	110.8	28	16	M10x1.5P	0.5~10.0	0.70kg
<b>62056-03</b>	DAT30xER16A-120	167.8					0.85kg
<b>62056-04</b>	DAT30xER20A-63	110.8	34	20	M12x1.75P	1.0~13	0.80kg
<b>62056-05</b>	DAT30xER20A-120	167.8					1.05kg
<b>62056-06</b>	DAT30xER25-63	110.8	42	25	M16x2.0P	1.0~16	0.85kg
<b>62056-07</b>	DAT30xER32-63	110.8	50	32			2.0~20



# Tooling System

## 62058 DAT/ER Collet Chuck

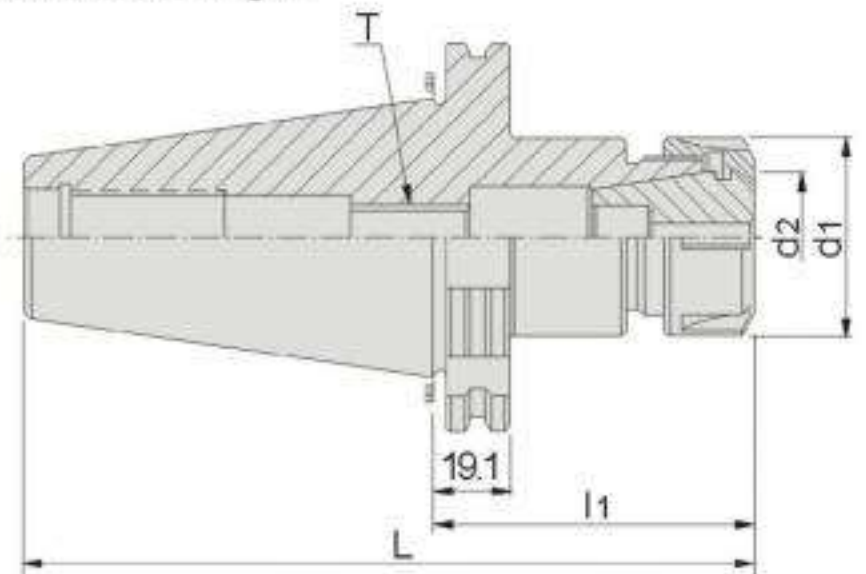
TOOLING SYSTEM



### Feature:

DIN ISO 15488

- ▶ Applicable to straight shank and tools.
- ▶ ER16, ER20 nut are hex nuts.
- ▶ ER25, ER32, ER40, ER50 comes with a standard nut.
- ▶ Powerful nut is optional.
- ▶ Precision balancing is applied for G6.3, 10000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



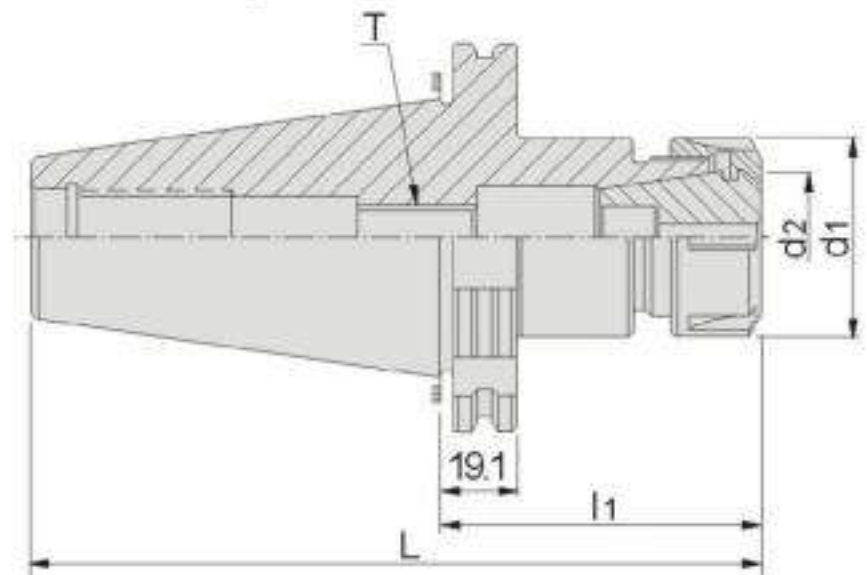
Unit:mm

Order No.	Model-d2-l1	L	d1	d2	T	Range	N.W.
62058-01	DAT40xER11A-80	148.4	19	11	M6x1.0P	0.5~7.0	1.05kg
62058-02	DAT40xER11A-125	193.4					1.15kg
62058-03	DAT40xER16A-70	138.4					1.30kg
62058-04	DAT40xER16A-100	168.4	28	16	M10x1.5P	0.5~10.0	1.40kg
62058-05	DAT40xER16A-125	193.4					1.60kg
62058-06	DAT40xER16A-150	218.4					1.65kg
62058-07	DAT40xER16A-180	248.4					1.85kg
62058-08	DAT40xER20A-70	138.4					1.40kg
62058-09	DAT40xER20A-100	168.4	34	20	M12x1.75P	1.0~13.0	1.50kg
62058-10	DAT40xER20A-135	203.4					1.95kg
62058-11	DAT40xER20A-160	228.4					2.20kg
62058-12	DAT40xER25-70	138.4					1.60kg
62058-13	DAT40xER25-100	168.4	42	25	M16x2.0P	1.0~16.0	1.85kg
62058-14	DAT40xER25-150	218.4					2.25kg
62058-15	DAT40xER25-180	248.4					2.45kg
62058-16	DAT40xER25-200	268.4					2.55kg
62058-17	DAT40xER32-70	138.4					1.60kg
62058-18	DAT40xER32-100	168.4	50	32		2.0~20.0	2.00kg
62058-19	DAT40xER32-135	203.4					2.15kg
62058-20	DAT40xER32-150	218.4					2.65kg
62058-21	DAT40xER40-70	138.4					1.50kg
62058-22	DAT40xER40-100	168.4	63	40	M20x2.0P	3.0~26.0	2.00kg
62058-23	DAT40xER40-135	218.4					2.30kg
62058-24	DAT40xER50-100	168.4					1.70kg
			78	50	M24x2.0P	5.0~34.0	




**Feature:**
**DIN ISO 15488**

- ▶ Applicable to straight shank and tools.
- ▶ ER16, ER20 nut are hex nuts.
- ▶ ER25, ER32, ER40, ER50 comes with a standard nut.
- ▶ Powerful nut is optional.
- ▶ Precision balancing is applied for G6.3, 10000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.


**P.F95**
**P.F96**
**P.F80-86**

Unit:mm

Order No.	Model-d2-l1	L	d1	d2	T	Range	N.W.
62060-01	DAT50xER16A-100	201.75	28	16	M10x1.5P	0.5~10.0	3.20kg
62060-02	DAT50xER16A-135	236.75					4.30kg
62060-03	DAT50xER16A-160	261.75					4.50kg
62060-04	DAT50xER16A-180	281.75					4.80kg
62060-05	DAT50xER20A-100	201.75					3.40kg
62060-06	DAT50xER20A-135	236.75	34	20	M12x1.75P	1.0~13.0	3.60kg
62060-07	DAT50xER20A-160	261.75					3.80kg
62060-08	DAT50xER25-70	171.75					3.40kg
62060-09	DAT50xER25-100	201.75	42	25	M16x2.0P	1.0~16.0	4.15kg
62060-10	DAT50xER25-150	251.75					4.50kg
62060-11	DAT50xER25-200	301.75					4.70kg
62060-12	DAT50xER32-80	181.75					3.60kg
62060-13	DAT50xER32-120	221.75	50	32	M20x2.0P	2.0~20.0	4.60kg
62060-14	DAT50xER32-160	261.75					4.75kg
62060-15	DAT50xER32-200	301.75					4.90kg
62060-16	DAT50xER40-80	181.75					3.65kg
62060-17	DAT50xER40-120	221.75					63
62060-18	DAT50xER40-160	261.75	5.20kg				
62060-19	DAT50xER40-200	301.75	5.40kg				
62060-20	DAT50xER50-80	181.75	4.85kg				
62060-21	DAT50xER50-120	221.75	78	50	M24x2.0P	5.0~34.0	5.45kg
62060-22	DAT50xER50-160	261.75					5.55kg
62060-23	DAT50xER50-200	301.75					5.70kg



# Tooling System

**62062**

**DAT/ER**

**Collet Chuck**

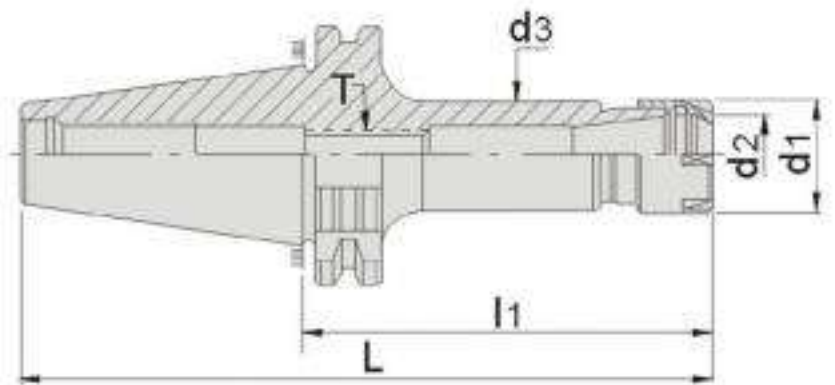
TOOLING SYSTEM



## Feature:

## Type M

- ▶ Type M Chuck adopts small dia. nut to avoid interference.
- ▶ Always apply correct wrench to lock tight avoiding any misusage.
- ▶ Precision balancing is applied for G6.3, 10000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



P.F95



P.F96



P.F80-82

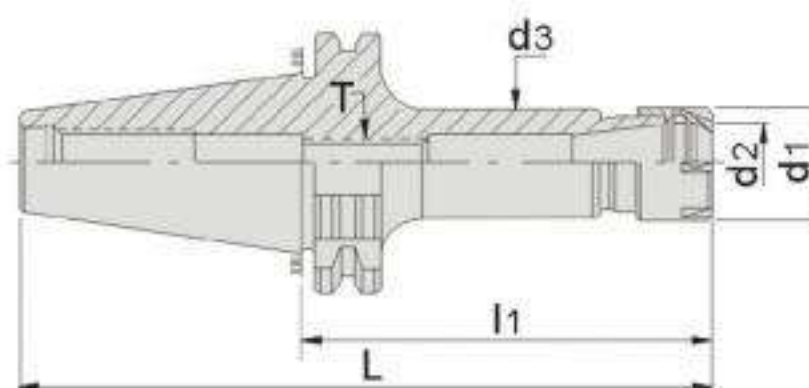
Unit:mm

Order No.	Model-d2-l1	L	d1	d2 ER	d3	T	Range	N.W.
62062-01	DAT30xER11M-70	117.8	16	11	15	M6x1.0P	0.5~7.0	0.50kg
62062-02	DAT30xER11M-100	147.8						0.60kg
62062-03	DAT30xER11M-120	167.8						0.70kg
62062-04	DAT30xER16M-70	117.8	22	16	21	M10x1.5P	0.5~10.0	0.55kg
62062-05	DAT30xER16M-100	147.8						0.65kg
62062-06	DAT30xER16M-120	167.8						0.75kg
62062-07	DAT30xER20M-100	147.8	28	20	27	M12x1.75P	1.0~13.0	0.70kg
62062-08	DAT30xER20M-120	167.8						0.80kg
62062-09	DAT30xER20M-150	197.8						1.00kg
62062-10	DAT40xER11M-70	138.4	16	11	15	M6x1.0P	0.5~7.0	1.10kg
62062-11	DAT40xER11M-100	168.4						1.20kg
62062-12	DAT40xER11M-125	193.4						1.40kg
62062-13	DAT40xER11M-150	218.4						1.50kg
62062-14	DAT40xER16M-70	138.4	22	16	21	M10x1.5P	0.5~10.0	1.20kg
62062-15	DAT40xER16M-100	168.4						1.30kg
62062-16	DAT40xER16M-125	193.4						1.50kg
62062-17	DAT40xER16M-150	218.4						1.60kg
62062-18	DAT40xER20M-70	138.4	28	20	27	M12x1.75P	1.0~13.0	1.20kg
62062-19	DAT40xER20M-100	168.4						1.55kg
62062-20	DAT40xER20M-125	193.4						1.70kg
62062-21	DAT40xER20M-150	218.4						1.80kg




**Feature:**
**Type M**

- ▶ Type M Chuck adopts small dia. nut to avoid interference.
- ▶ Always apply correct wrench to lock tight avoiding any misusage.
- ▶ Precision balancing is applied for G6.3, 10000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.


**P.F95**
**P.F96**
**P.F80-82**

Unit:mm

Order No.	Model-d2-l1	L	d1	d2 ER	d3	T	Range	N.W.
62064-01	DAT50xER11M-70	171.75	16	11	15	M6x1.0P	0.5~7.0	3.8kg
62064-02	DAT50xER11M-90	191.75						3.9kg
62064-03	DAT50xER11M-105	206.75						4.0kg
62064-04	DAT50xER11M-135	236.75						4.1kg
62064-05	DAT50xER11M-165	266.75						4.2kg
62064-06	DAT50xER16M-70	171.75	22	16	21	M10x1.5P	0.5~10.0	3.9kg
62064-07	DAT50xER16M-90	191.75						4.0kg
62064-08	DAT50xER16M-105	206.75						4.1kg
62064-09	DAT50xER16M-135	236.75						4.2kg
62064-10	DAT50xER16M-165	266.75						4.3kg
62064-11	DAT50xER20M-90	191.75	28	20	27	M12x1.75P	1.0~13.0	4.1kg
62064-12	DAT50xER20M-105	206.75						4.2kg
62064-13	DAT50xER20M-135	236.75						4.4kg
62064-14	DAT50xER20M-165	266.75						4.6kg



# Tooling System

**62066**

**DAT/SLN**

**Side Lock End Mill Holder**

**DIN 1835**

**Feature:**

- ▶ Inner Dia. Tol.: H5.
- ▶ Balance grade is complied with DIN-1835-B as well as the tools.
- ▶ Dia. allowable Tol. within h6~h7, attach with two side lock screws.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Fig.1

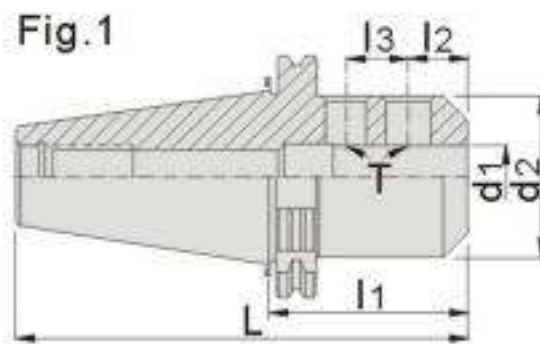
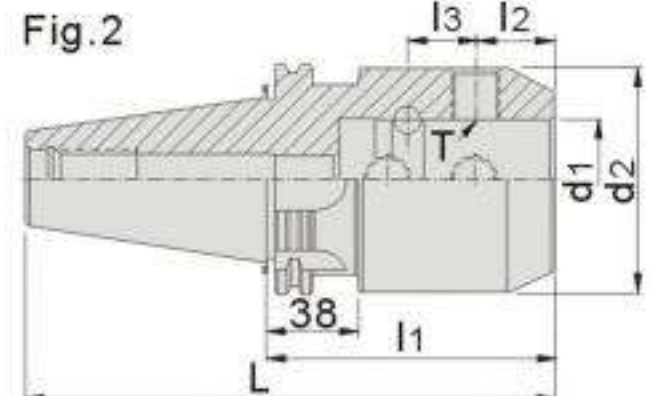


Fig.2



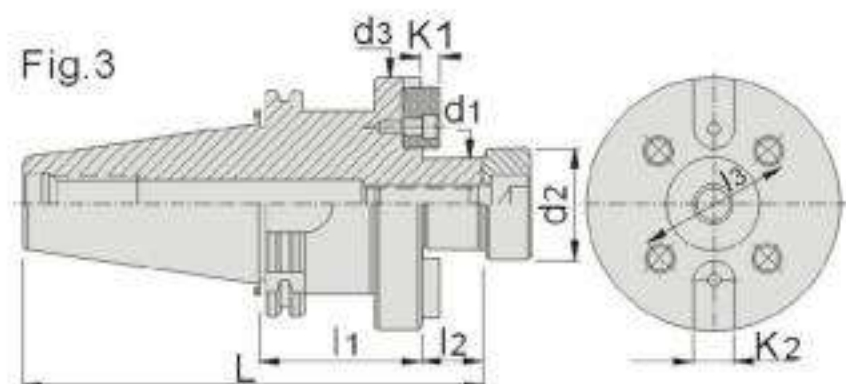
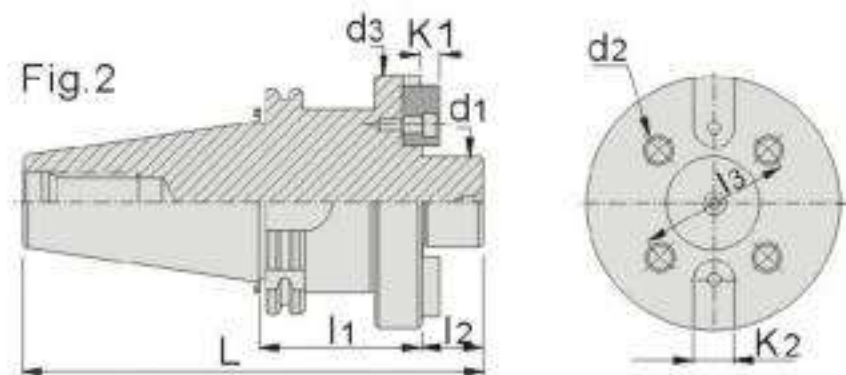
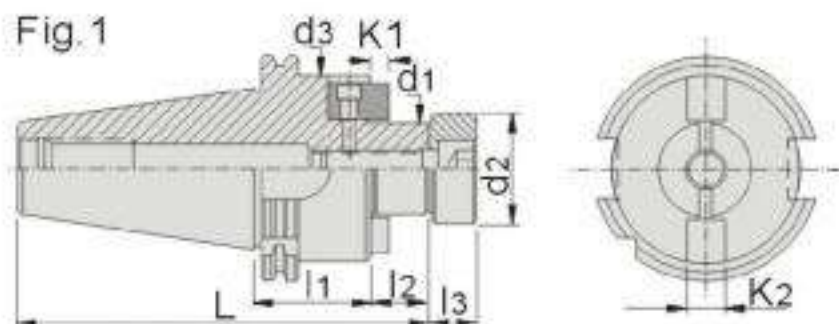
Unit:mm

Order No.	Model-d1-l1	L	l2	l3	d2	T	Fig.	N.W.	
62066-01	DAT30xSLN6-50	97.8	18	-	25	M6x1.0P	1	0.73kg	
62066-02	DAT30xSLN8-50	97.8			28	M8x1.25P		0.80kg	
62066-03	DAT30xSLN10-50	97.8			35	M10x1.5P		0.90kg	
62066-04	DAT30xSLN12-50	97.8			42	M12x1.75P		0.90kg	
62066-05	DAT30xSLN16-63	110.8			48	M14x2.0P		1.10kg	
62066-06	DAT40xSLN6-50	118.4	18		25	M6x1.0P		0.85kg	
62066-07	DAT40xSLN8-50	118.4	18		28	M8x1.25P		1.00kg	
62066-08	DAT40xSLN10-50	118.4	20		35	M10x1.5P		1.10kg	
62066-09	DAT40xSLN12-50	118.4	22.5		42	M12x1.75P		1.15kg	
62066-10	DAT40xSLN16-63	131.4	24		48	M14x2.0P		1.40kg	
62066-11	DAT40xSLN20-63	131.4	25		52	M16x2.0P		1.30kg	
62066-12	DAT40xSLN25-100	168.4	24	25	65	M18x2.0P		2.40kg	
62066-13	DAT40xSLN32-100	168.4		28	72	M20x2.0P		2.70kg	
62066-14	DAT50xSLN6-63	164.75	18	-	25	M6x1.0P		3.10kg	
62066-15	DAT50xSLN8-63	164.75			28	M8x1.25P		3.10kg	
62066-16	DAT50xSLN10-63	164.75			35	M10x1.5P		3.30kg	
62066-17	DAT50xSLN12-63	164.75			42	M12x1.75P		3.50kg	
62066-18	DAT50xSLN16-63	164.75			48	M14x2.0P		3.45kg	
62066-19	DAT50xSLN20-63	164.75	52		M16x2.0P	3.50kg			
62066-20	DAT50xSLN25-80	181.75	24		25	65		M18x2.0P	4.20kg
62066-21	DAT50xSLN32-100	201.75			28	72		M20x2.0P	5.00kg
62066-22	DAT50xSLN40-100	201.75	30		32	90		M20x2.0P	5.60kg
62066-23	DAT50xSLN42-100	201.75						M20x2.0P	5.70kg
62066-24	DAT50xSLN50-125	226.75	35		35	100		M24x2.0P	5.90kg
62066-25	DAT50xSLN50.8-120	221.75	33.1	28.58	95	M20x2.0P		2	5.80kg
62066-26	DAT50xSLN63-150	250.75	40	40	125	M20x2.0P		1	6.20kg
62066-27	DAT50xSLN63-150	250.75		24	125	M16x2.0P		1	6.20kg




**Feature:**
**Type FMB**

- ▶ d1 Tol.: h6.
- ▶ 7/24 taper Tol.: AT3
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

**TOOLING SYSTEM**


Order No.	Model-d1-l1	L	l2	l3	d2	d3	K1	K2	Fig.	N.W.
62068-01	DAT30xFMB22-35	101.8	19	14	26	45	4.8	10	1	1.00kg
62068-02	DAT30xFMB27-55	122.8	20	16	31.5	58	5.8	12		1.05kg
62068-03	DAT40xFMB22-35	122.4	19	14	26	48	4.8	10		1.20kg
62068-04	DAT40xFMB27-60	148.4	20	16	31.5	58	5.8	12		1.80kg
62068-05	DAT40xFMB32-60	150.4	22	16	41	66	6.8	14		2.30kg
62068-06	DAT40xFMB40-60	153.4	25	20.5	48	80	8.3	16		2.80kg
62068-07	DAT50xFMB22-35	155.75	19	14	26	48	4.8	10		3.40kg
62068-08	DAT50xFMB27-35	156.75	20	16	31.5	58	5.8	12		3.50kg
62068-09	DAT50xFMB32-35	158.75	22	16	41	66	6.8	14		3.70kg
62068-10	DAT50xFMB40-50	189.75	25	20.5	48	80	8.3	16		4.70kg
62068-11	DAT50xFMB50-60	191.75	30	25	68	95	9.7	19	5.80kg	
62068-12	DAT40xFMB40F-60	158.4	30	66.7	M12	89	8.3	15.9	2	2.90kg
62068-13	DAT50xFMB40F-60	201.75	30	66.7	M12	89	8.3	15.9		5.50kg
62068-14	DAT50xFMB40F-70	211.75	40	101.6	M16	129	12.5	25.4	3	5.70kg
62068-15	DAT40xFS40-60	154.4	26	66.7	50	110	8.3	16		3.20kg
62068-16	DAT50xFS40-70	197.75	26	66.7	50	110	8.3	16		5.70kg
62068-17	DAT50xFS60-70	196.75	25	101.6	M16	140	12.5	25.4	2	5.50kg

Unit:mm



# Tooling System

**62070**

**DAT/MTA**

**Morse Taper Adapter**



**DIN 228-B**  
**DIN 6383**

## Feature:

- ▶ High precision masterpiece, run-out accuracy controls within 0.015mm even if extension drill bit.
- ▶ Suitable for Morse Taper Drill.

Fig.1

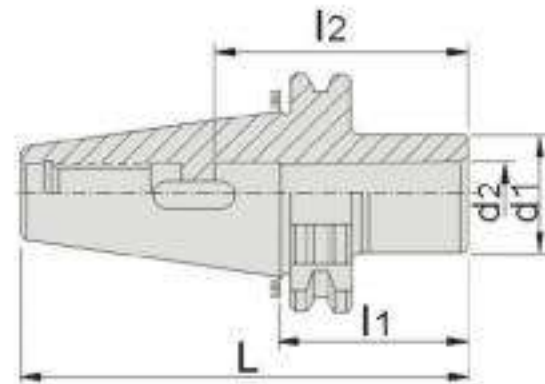
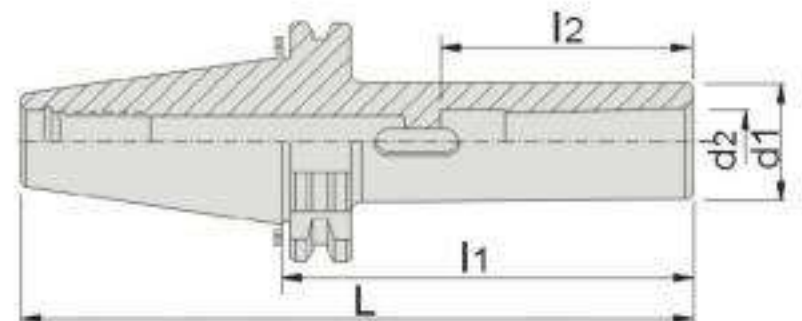


Fig.2



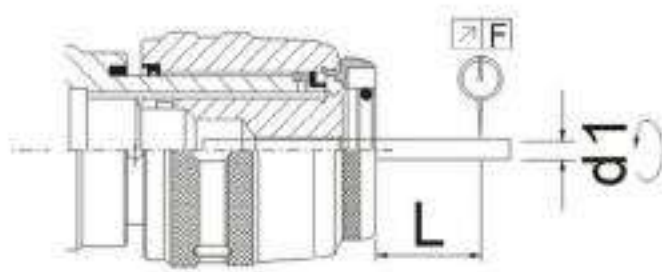
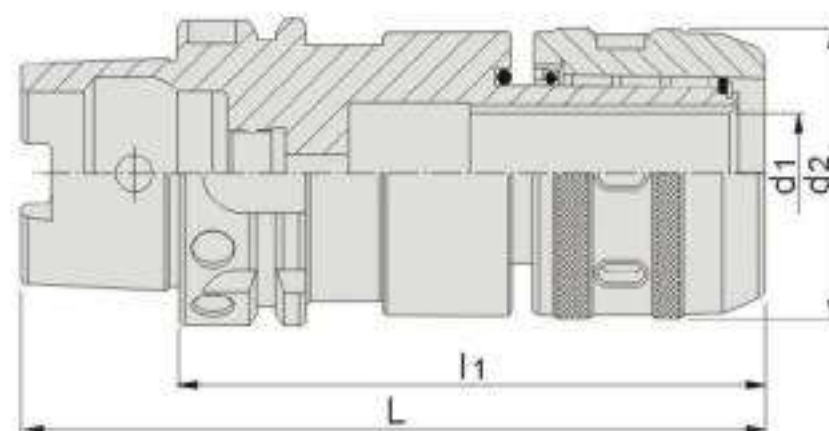
Unit:mm

Order No.	Model-I1	L	l2	d1	d2	N.W.
62070-01	DAT30xMTA1-50	97.8	56	25	12.065	0.55kg
62070-02	DAT30xMTA2-60	117.8	67	32	17.78	0.80kg
62070-03	DAT30xMTA3-75	122.8	84	40	23.825	1.00kg
62070-04	DAT40xMTA1-50	118.4	56	25	12.065	1.20kg
62070-05	DAT40xMTA2-50	118.4	67	32	17.78	1.00kg
62070-06	DAT40xMTA3-70	138.4	84	40	23.825	1.10kg
62070-07	DAT40xMTA4-95	163.4	107	48	31.267	1.35kg
62070-08	DAT50xMTA1-45	146.75	56	25	12.065	3.00kg
62070-09	DAT50xMTA2-60	161.75	67	32	17.78	3.10kg
62070-10	DAT50xMTA3-65	166.75	84	40	23.825	3.20kg
62070-11	DAT50xMTA4-95	196.75	107	48	31.267	3.40kg
62070-12	DAT50xMTA5-105	206.75	133	63	44.399	3.60kg




**Feature:**
**DIN 69893-1**

- ▶ Water and dust proof and such design does not over tighten.
- ▶ Seal design to eliminate dust and chips.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

**TOOLING SYSTEM**


Unit:mm

<b>d1</b>	<b>END MILL DIAMETER</b>	6	8	10	12	16	20	25	32	42
<b>L</b>	<b>END MILL LENGTH</b>	25	30	30	40	40	50	50	60	60
<b>F</b>	<b>CONCENTRICITY</b>	0.02								

<b>L</b>	MLT20	60
	MLT32	80
	MLT40	100
<b>F</b>	<b>CONCENTRICITY</b>	0.001~0.005


**P.F75**
**P.F75**

Unit:mm

Order No.	Model-d1-l1	L	l1	d1	d2	N.W.
62072-01	HSK50AxMLT20-120	140	120	20	55	1.62kg
62072-02	HSK63AxMLT20-90	122	90			1.52kg
62072-03	HSK63AxMLT20-120	152	120			1.68kg
62072-04	HSK63AxMLT32-105	137	105	32	73	1.60kg
62072-05	HSK63AxMLT32-120	152	120			1.76kg
62072-06	HSK63AxMLT32-150	182	150			1.92kg
62072-07	HSK63AxMLT42-135	167	135	42	95	1.82kg



# Tooling System

**62074**

**HSK/ER**

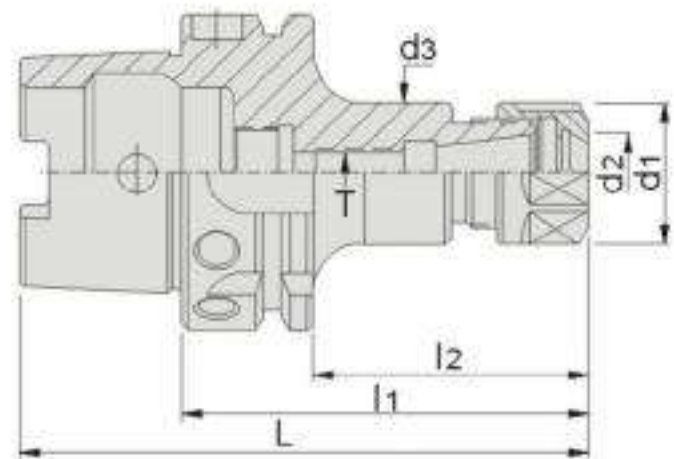
**Collet Chuck**

**DIN 69893-1**  
**DIN ISO 15488**

**Feature:**

- ▶ Rotary checked by balancing machine.
- ▶ Precision balancing is applied for G2.5, 25000 RPM.
- ▶ Capable of clamping any dia. and tools.
- ▶ Balancing grade and rev. can be custom made for additional charge.

TOOLING SYSTEM



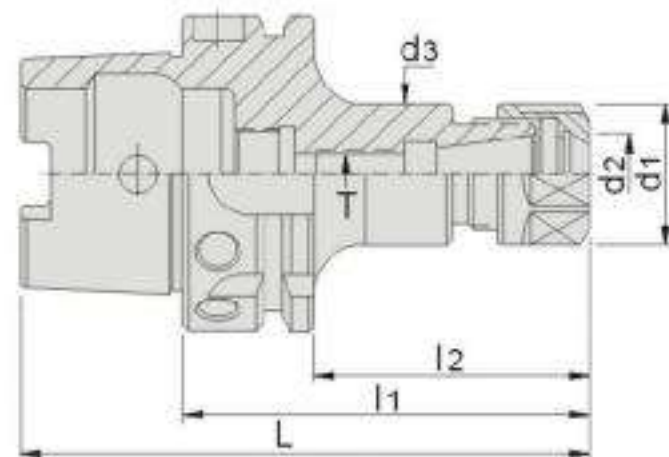
Unit:mm

Order No.	Model-d2-l1	L	l2	d1	d2	d3 MAX.	T	N.W.
62074-01	HSK40AxER20A-80	100	60	34	20	32	M10x1.5P	0.35kg
62074-02	HSK40AxER25-80			42	25			0.40kg
62074-03	HSK50AxER16A-80	105	54	28	16	42	M10x1.5P	0.50kg
62074-04	HSK50AxER16A-100	125	74					0.55kg
62074-05	HSK50AxER16A-120	145	94					0.70kg
62074-06	HSK50AxER20A-80	105	54					0.60kg
62074-07	HSK50AxER20A-100	125	74					34
62074-08	HSK50AxER20A-120	145	94	42	25	53	M16x2.0P	0.70kg
62074-09	HSK50AxER25-80	105	54					0.70kg
62074-10	HSK50AxER25-100	125	74					42
62074-11	HSK50AxER25-135	160	109	50	32	42	M16x2.0P	0.90kg
62074-12	HSK50AxER32-100	125	74					1.35kg
62074-13	HSK50AxER32-135	160	109					1.50kg
62074-14	HSK50AxER32-160	185	134	28	16	42	M10x1.5P	1.70kg
62074-15	HSK63AxER16A-80	112	54					1.50kg
62074-16	HSK63AxER16A-100	132	74					1.55kg
62074-17	HSK63AxER16A-120	152	94					1.70kg
62074-18	HSK63AxER16A-160	192	134	34	20	53	M12x1.75P	1.90kg
62074-19	HSK63AxER20A-80	112	54					1.60kg
62074-20	HSK63AxER20A-100	132	74					1.70kg
62074-21	HSK63AxER20A-120	152	94	42	25	42	M16x2.0P	1.80kg
62074-22	HSK63AxER20A-160	192	134					2.00kg
62074-23	HSK63AxER25-80	112	54					1.70kg
62074-24	HSK63AxER25-100	132	74	182	124	42	M16x2.0P	1.80kg
62074-25	HSK63AxER25-120	152	94					2.00kg
62074-26	HSK63AxER25-150	182	124					2.30kg




**Feature:**
**DIN 69893-1**  
**DIN ISO 15488**

- ▶ Rotary checked by balancing machine.
- ▶ Precision balancing is applied for G2.5, 25000 RPM.
- ▶ Capable of clamping any dia. and tools.
- ▶ Balancing grade and rev. can be custom made for additional charge.


**P.F95**
**P.F96**
**P.F82~83**

Unit:mm

Order No.	Model-d2-l1	L	l2	d1	d2 ER	d3 MAX.	T	N.W.
62076-01	HSK63AxER32-80	112	54	50	32	53	-	2.50kg
62076-02	HSK63AxER32-100	132	74				2.55kg	
62076-03	HSK63AxER32-145	177	119				M16x2.0P	2.70kg
62076-04	HSK63AxER32-160	192	134				3.10kg	
62076-05	HSK63AxER40-80	112	54	63	40		-	2.65kg
62076-06	HSK63AxER40-100	132	74				2.70kg	
62076-07	HSK63AxER40-120	152	94				M20x2.0P	2.77kg
62076-08	HSK63AxER40-150	182	124				2.95kg	
62076-09	HSK63AxER40-170	202	144	78	50		M24x2.0P	3.10kg
62076-10	HSK63AxER50-120	152	94				3.50kg	
62076-11	HSK100AxER16A-80	130	51	28	16	85	M10x1.5P	2.90kg
62076-12	HSK100AxER16A-100	150	71				2.95kg	
62076-13	HSK100AxER16A-160	210	131				3.45kg	
62076-14	HSK100AxER20A-80	130	51	34	20		M12x1.75P	2.90kg
62076-15	HSK100AxER20A-100	150	71				3.00kg	
62076-16	HSK100AxER20A-160	210	131				3.30kg	
62076-17	HSK100AxER25-100	150	71	42	25		M16x2.0P	3.00kg
62076-18	HSK100AxER25-130	180	101				3.20kg	
62076-19	HSK100AxER32-100	150	71	50	32		M16x2.0P	3.15kg
62076-20	HSK100AxER32-135	185	106				3.35kg	
62076-21	HSK100AxER32-150	200	121			3.50kg		
62076-22	HSK100AxER40-80	130	51	63	40	M20x2.0P	3.30kg	
62076-23	HSK100AxER40-120	170	91			3.38kg		
62076-24	HSK100AxER40-175	225	146			4.20kg		
62076-25	HSK100AxER50-100	150	71	78	50	M24x2.0P	4.50kg	
62076-26	HSK100AxER50-120	170	91			5.00kg		



# Tooling System

## 62078

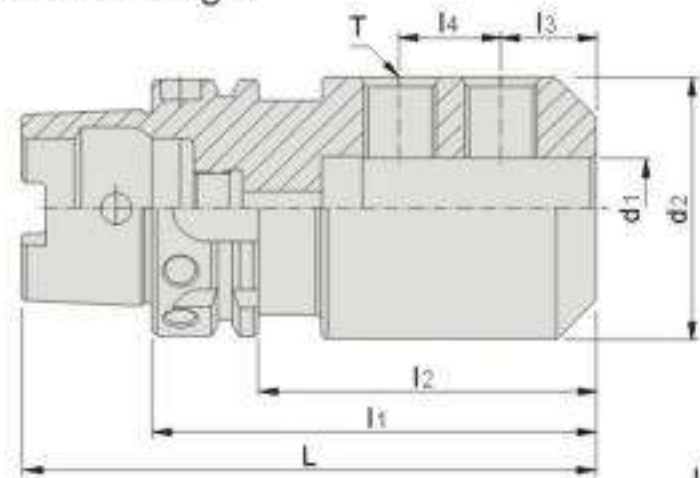
### HSK/SLN

### Side Lock End Mill Holder

DIN 69893-1  
DIN 1835-B

#### Feature:

- ▶ Inner Dia. tolerance: H5.
- ▶ Dynamic balancing is followed DIN-1835-B, allowed tolerance within h6~h7.
- ▶ Rotary checked by dynamic balancing machine.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	T	N.W.
62078-01	HSK50AxSLN6-65	90	39	18		25	M6x1.0P	0.7kg
62078-02	HSK50AxSLN8-65			18		28	M8x1.25P	0.8kg
62078-03	HSK50AxSLN10-65			20		35	M10x1.5P	0.8kg
62078-04	HSK50AxSLN12-80	105	54	22.5		42	M12x1.75P	1.2kg
62078-05	HSK50AxSLN14-80			22.5		44		1.3kg
62078-06	HSK50AxSLN16-80			24		48	M14x2.0P	1.3kg
62078-07	HSK50AxSLN18-80			24		50	1.4kg	
62078-08	HSK50AxSLN20-80			25		52	M16x2.0P	1.5kg
62078-09	HSK63AxSLN6-65	97	39	18		25	M6x1.0P	0.9kg
62078-10	HSK63AxSLN8-65			18		28	M8x1.25P	1.0kg
62078-11	HSK63AxSLN10-65			20		35	M10x1.5P	1.0kg
62078-12	HSK63AxSLN12-80	112	54	22.5		42	M12x1.75P	1.7kg
62078-13	HSK63AxSLN14-80			22.5		44		1.7kg
62078-14	HSK63AxSLN16-80			24		48	M14x2.0P	1.7kg
62078-15	HSK63AxSLN18-80			24		50	1.8kg	
62078-16	HSK63AxSLN20-80			25		52	M16x2.0P	1.8kg
62078-17	HSK63AxSLN25-110	142	84	24	25	65	M18x2.0P	2.5kg
62078-18	HSK63AxSLN32-110			24	28	72	M20x2.0P	2.7kg
62078-19	HSK100AxSLN6-80	130	51	18		25	M6x1.0P	3.0kg
62078-20	HSK100AxSLN8-80			18		28	M8x1.25P	3.2kg
62078-21	HSK100AxSLN10-80			20		35	M10x1.5P	3.4kg
62078-22	HSK100AxSLN12-80	150	71	22.5		42	M12x1.75P	3.4kg
62078-23	HSK100AxSLN14-80			22.5		44		3.5kg
62078-24	HSK100AxSLN16-100			24		48	M14x2.0P	3.8kg
62078-25	HSK100AxSLN18-100			24		50	M16x2.0P	3.8kg
62078-26	HSK100AxSLN20-100			25		52		3.9kg
62078-27	HSK100AxSLN25-100	170		24	25	65	M18x2.0P	4.0kg
62078-28	HSK100AxSLN32-100			24	28	72	M20x2.0P	4.1kg
62078-29	HSK100AxSLN40-120			30	32	90		4.4kg



**62080** HSK/SLN Side Lock End Mill Holder

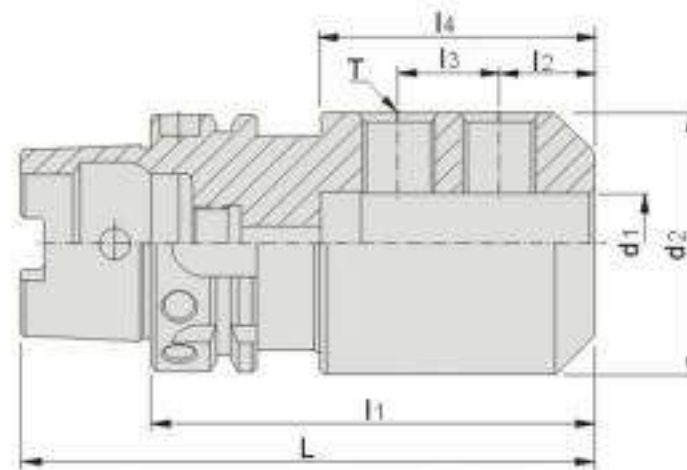


**Feature:**

DIN 69893-1

- ▶ Inner Dia. tolerance: H5.
- ▶ Rotary checked by dynamic balancing machine.
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

TOOLING SYSTEM



Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	T	N.W.
62080-01	HSK40AxSLN1/4"-2.5"	3.287	0.63	-	1.38	0.78	1/4-28	0.31kg
62080-02	HSK40AxSLN3/8"-2.5"	3.287	0.75	-	1.535	1	3/8-24	0.42kg
62080-03	HSK40AxSLN1/2"-2.75"	3.537	0.875	-	1.732	1.25	7/16-20	0.57kg
62080-04	HSK40AxSLN5/8"-3"	3.787	0.937	-	1.85	1.5	1/2-20	0.69kg
62080-05	HSK63AxSLN1/4"-3"	4.26	0.63	-	1.38	0.78	1/4-28	0.76kg
62080-06	HSK63AxSLN3/8"-3"	4.26	0.75	-	1.535	1	3/8-24	0.88kg
62080-07	HSK63AxSLN1/2"-3"	4.26	0.875	-	1.732	1.25	7/16-20	1.13kg
62080-08	HSK63AxSLN5/8"-3.75"	5	0.937	-	1.85	1.5	1/2-20	1.26kg
62080-09	HSK63AxSLN3/4"-3.75"	5	1	-	1.929	1.75	5/8-18	1.33kg
62080-10	HSK63AxSLN1"-3.75"	5	1.125	1	2.559	2	3/4-16	2.30kg
62080-11	HSK63AxSLN1-1/4"-4.25"	5.51	1.125	1	2.559	2.5		2.52kg
62080-12	HSK100AxSLN1/4"-3"	4.97	0.63	-	1.38	0.78	1/4-28	2.16kg
62080-13	HSK100AxSLN3/8"-3"	4.97	0.75	-	1.535	1	3/8-24	2.31kg
62080-14	HSK100AxSLN1/2"-3.25"	5.219	0.875	-	1.732	1.25	7/16-20	2.45kg
62080-15	HSK100AxSLN5/8"-3.75"	5.719	0.937	-	1.85	1.5	1/2-20	2.84kg
62080-16	HSK100AxSLN3/4"-3.75"	5.719	1	-	1.929	1.75	5/8-18	2.95kg
62080-17	HSK100AxSLN1"-4.25"	6.219	1.125	-	2.559	2	3/4-16	3.46kg
62080-18	HSK100AxSLN1-1/4"-4.25"	6.219	1.125	1	2.559	2.5		3.73kg
62080-19	HSK100AxSLN1-1/2"-4.5"	6.469	1.125	1	2.756	2.5		5.51kg
62080-20	HSK100AxSLN2"-5.5"	7.469	1.335	1.41	3.347	3.75	1-14	6.37kg

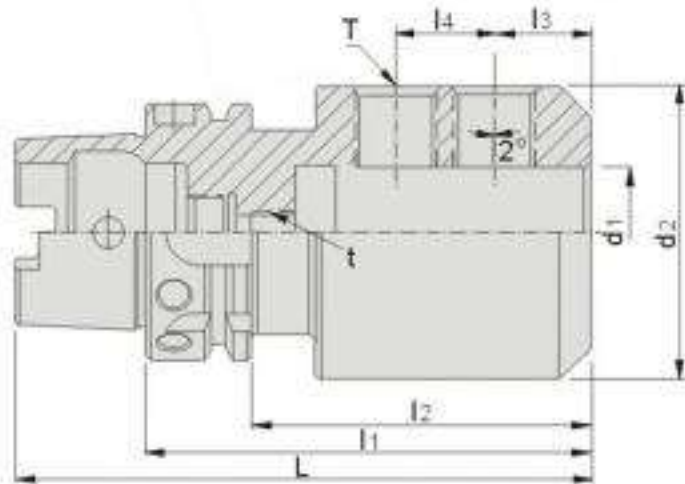


# Tooling System

## 62082

### HSK/SLN

### Side Lock End Mill Holder



**DIN 69893-1**  
**DIN 1835-E**

#### Feature:

- ▶ Inner Dia. tolerance: H5.
- ▶ Dynamic balancing is followed DIN-1835-B, allowed tolerance within h6~h7.
- ▶ Rotary checked by dynamic balancing machine.
- ▶ Side lock screw angle 2°
- ▶ Precision balancing is applied for G6.3, 8000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.

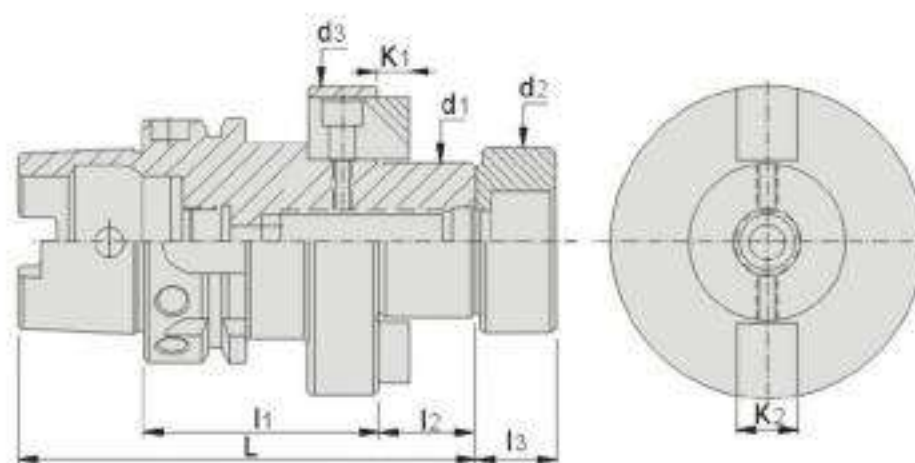
Unit:mm

Order No.	Model-d1-l1	L	l2	l3	l4	d2	t	T	N.W.	
62082-01	HSK50AxSLNB6-80	105	54	18		25	M5	M6x1.0P	0.8kg	
62082-02	HSK50AxSLNB8-80			18		28	M6	M8x1.25P	0.9kg	
62082-03	HSK50AxSLNB10-80			20		35	M8	M10x1.5P	0.9kg	
62082-04	HSK50AxSLNB12-90	115	64	22.5		42	M10	M12x1.75P	1.3kg	
62082-05	HSK50AxSLNB14-90			22.5		44			1.4kg	
62082-06	HSK50AxSLNB16-90			24		48	M12	M14x2.0P	1.4kg	
62082-07	HSK50AxSLNB18-90			24		50			1.6kg	
62082-08	HSK50AxSLNB20-100	125	74	25		52	M16	M16x2.0P	1.7kg	
62082-09	HSK63AxSLNB6-80	112	54	18		25	M5	M6x1.0P	1.0kg	
62082-10	HSK63AxSLNB8-80			18		28	M6	M8x1.25P	1.1kg	
62082-11	HSK63AxSLNB10-80			20	35	M8	M10x1.5P	1.1kg		
62082-12	HSK63AxSLNB12-90	122	64	22.5		42	M10	M12x1.75P	2.0kg	
62082-13	HSK63AxSLNB14-90			22.5		44			2.0kg	
62082-14	HSK63AxSLNB16-100			24		48	M12	M14x2.0P	2.0kg	
62082-15	HSK63AxSLNB18-100	132	74	24	50	2.1kg				
62082-16	HSK63AxSLNB20-100	142	84	25	22	52	M16	M16x2.0P	2.1kg	
62082-17	HSK63AxSLNB25-110			24		65			M20	M18x2.0P
62082-18	HSK63AxSLNB32-110			24		72	M20	M20x2.0P	2.8kg	
62082-19	HSK100AxSLNB6-90	140	61	18		25	M5	M6x1.0P	3.4kg	
62082-20	HSK100AxSLNB8-90			18		28	M6	M8x1.25P	3.5kg	
62082-21	HSK100AxSLNB10-90			20		35	M8	M10x1.5P	3.8kg	
62082-22	HSK100AxSLNB12-100	150	71	22.5		42	M10	M12x1.75P	3.8kg	
62082-23	HSK100AxSLNB14-100			22.5		44			4.0kg	
62082-24	HSK100AxSLNB16-100			24		48	M12	M14x2.0P	4.0kg	
62082-25	HSK100AxSLNB18-100			24		50			4.0kg	
62082-26	HSK100AxSLNB20-110	160	81	25		52	M16	M16x2.0P	4.2kg	
62082-27	HSK100AxSLNB25-120	170	91	24		22	65	M20	M18x2.0P	4.4kg
62082-28	HSK100AxSLNB32-120			24		24	72	M20	M20x2.0P	4.5kg
62082-29	HSK100AxSLNB40-120			30	32	90		M20x2.0P	5.0kg	




**Feature:**
**DIN 69893-1**

- ▶ d1 tolerance: h6.
- ▶ Precision balancing is applied for G6.3, 3000 RPM.
- ▶ Balancing grade and rev. can be custom made for additional charge.



Unit:mm

Order No.	Model-d1-l1	L	l2	l3	d2	d3	K1	K2	N.W.
62084-01	HSK40AxFMB16-50	87	17	-	-	40	3.8	8	0.7kg
62084-02	HSK40AxFMB22-60	99	19	14	26	50	4.8	10	0.8kg
62084-03	HSK40AxFMB27-60	101	21	16	31.5	60	5.8	12	1.0kg
62084-04	HSK40AxFMB32-60	104	24	16	41	78	6.8	14	1.1kg
62084-05	HSK50AxFMB16-50	92	17	-	-	40	3.8	8	1.1kg
62084-06	HSK50AxFMB22-60	104	19	14	26	50	4.8	10	1.2kg
62084-07	HSK50AxFMB27-60	106	21	16	31.5	60	5.8	12	1.3kg
62084-08	HSK50AxFMB32-60	109	24	16	41	78	6.8	14	1.5kg
62084-09	HSK63AxFMB16-50	99	17	-	-	40	3.8	8	1.2kg
62084-10	HSK63AxFMB22-50	101	19	14	26	50	4.8	10	1.3kg
62084-11	HSK63AxFMB27-60	113	21	16	31.5	60	5.8	12	1.5kg
62084-12	HSK63AxFMB32-60	116	24	16	41	78	6.8	14	1.6kg
62084-13	HSK63AxFMB40-60	119	25	20.5	48	89	8.3	16	2.1kg
62084-14	HSK100AxFMB22-50	119	19	14	26	50	4.8	10	2.7kg
62084-15	HSK100AxFMB27-50	121	21	16	31.5	60	5.8	12	2.9kg
62084-16	HSK100AxFMB32-50	124	24	16	41	78	6.8	14	3.0kg
62084-17	HSK100AxFMB40-60	137	25	20.5	48	89	8.3	16	4.0kg
62084-18	HSK100AxFMB50-70	150	30	25	68	120	9.7	19	5.1kg
62084-19	HSK100AxFMB60-70	160	40	-	-	129	12.5	25.4	5.5kg



# Tooling System

**62086**

**HSK/MTA**

**Morse Taper Adapter**

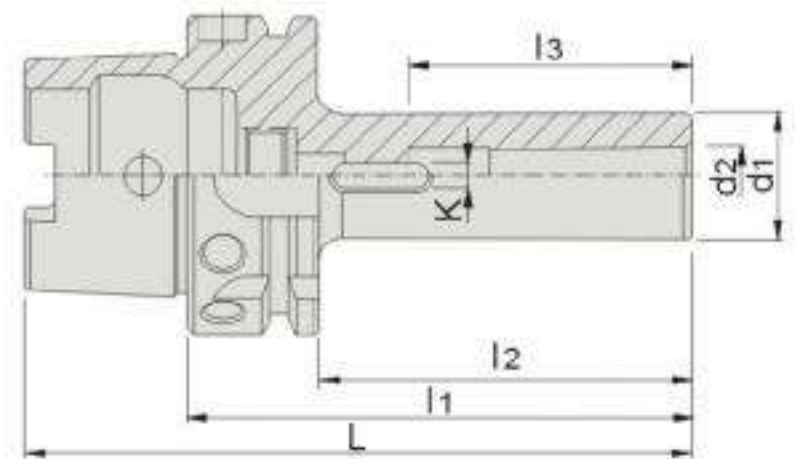
TOOLING SYSTEM



**Feature:**

**DIN 69893-1**

- ▶ Adaptor rotary checked by dynamic balancing.
- ▶ Roundness: 0.005mm
- ▶ MTA = type TANG = DIN 228-B.
- ▶ Suitable for morse taper drill.



Unit:mm

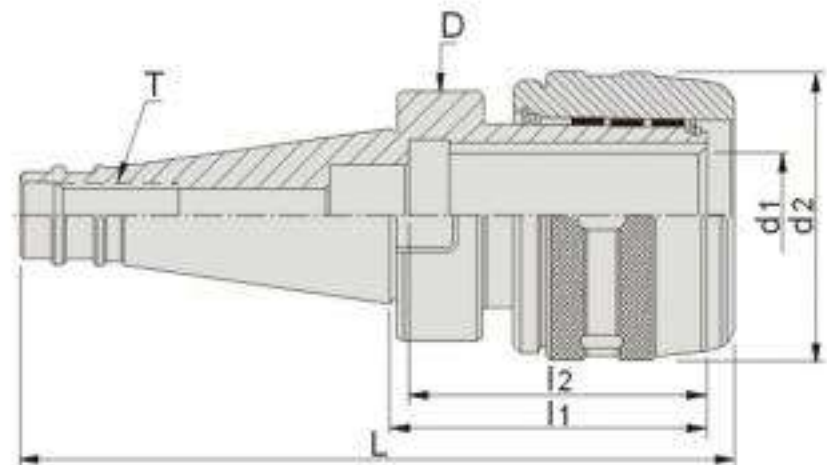
Order No.	Model-MTA-l1	L	l2	l3	d1	d2	K	N.W.
62086-01	HSK50AxMTA1-100	125	74	56	25	12.065	5.2	1.5kg
62086-02	HSK50AxMTA2-120	145	94	67	32	17.78	6.3	1.8kg
62086-03	HSK50AxMTA3-140	165	114	84	40	23.825	7.9	1.9kg
62086-04	HSK63AxMTA1-100	132	74	56	25	12.065	5.2	1.9kg
62086-05	HSK63AxMTA2-120	152	94	67	32	17.78	6.3	2.0kg
62086-06	HSK63AxMTA3-140	172	114	84	40	23.825	7.9	2.2kg
62086-07	HSK63AxMTA4-160	192	134	107	48	31.267	11.9	2.5kg
62086-08	HSK100AxMTA1-110	160	81	56	25	12.065	5.2	3.4kg
62086-09	HSK100AxMTA2-120	170	91	67	32	17.78	6.3	3.8kg
62086-10	HSK100AxMTA3-150	200	121	84	40	23.825	7.9	4.0kg
62086-11	HSK100AxMTA4-170	220	141	107	48	31.267	11.9	4.6kg
62086-12	HSK100AxMTA5-200	250	171	135	63	44.399	15.9	5.2kg



**62088**
**MLC**
**Multi-Lock Milling Chuck(Straight Collet)**

**TOOLING SYSTEM**
**Feature:**

- ▶ Adopting fixed device guide needle bearings to perfect smooth.
- ▶ Applying special fluid oil, wont congeal.


**P.F75**
**P.F75**

Unit:mm

Order No.	Model-d1-l1	L	l2	D	d1	d2	T	N.W.
62088-01	NT30xMLC20-62.5	130.9	65	49	20	55	M12(M12*1.75P),A04(1/2"-12)	1.9kg
62088-02	NT40xMLC20-62.5	155.9	70	63			M16(M16*2.0P),A06(5/8"-11)	2.3kg
62088-03	R8xMLC20-62.5	163.5	85	55	32	73	7/16"-20	1.9kg
62088-04	MTB4xMLC32-90	192.5	90	73			M16(M16*2.0P),A06(5/8"-11)	2.1kg
62088-05	MTB5xMLC32-85	214.5		M24(M24*3.0P),A07(1"-8)			3.8kg	
62088-06	NT40xMLC32-79.6	173		63			M16(M16*2.0P),A06(5/8"-11)	2.6kg
62088-07	NT50xMLC32-87.2	214		97.5	M24(M24*3.0P),A07(1"-8)	4.9kg		
62088-08	MTB4xMLC42-95	197.5	110	95	42	95	M16(M16*2.0P),A06(5/8"-11)	2.8kg
62088-09	MTB5xMLC42-95	224.5		M24(M24*3.0P),A07(1"-8)			4.0kg	
62088-10	NT50xMLC42-86.2	213		97.5			M24(M24*3.0P),A07(1"-8)	5.8kg



# Tooling System

**62090**

NT/ER

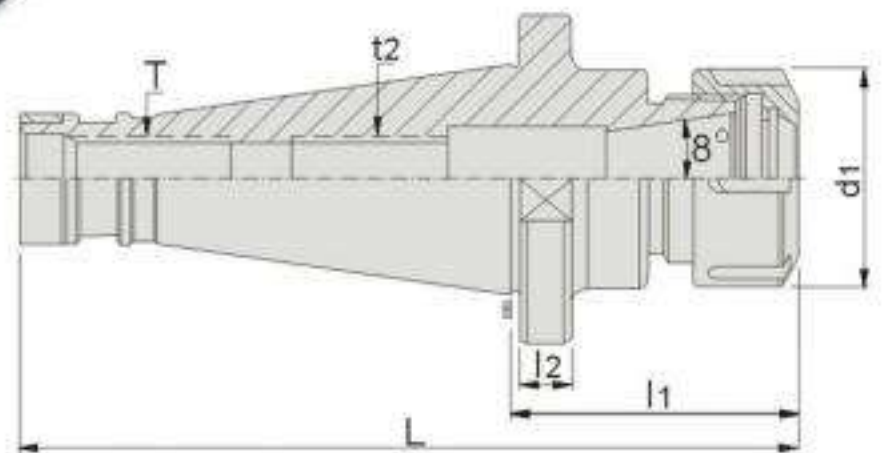
Collet Holder



**Feature:**

**DIN ISO 15488**

- Material: SCM-21.
- Separate purchase is available, each lock has its own clamping nut but wrench is not attached.



Please specify Inch or Metric when ordering.

Unit:mm

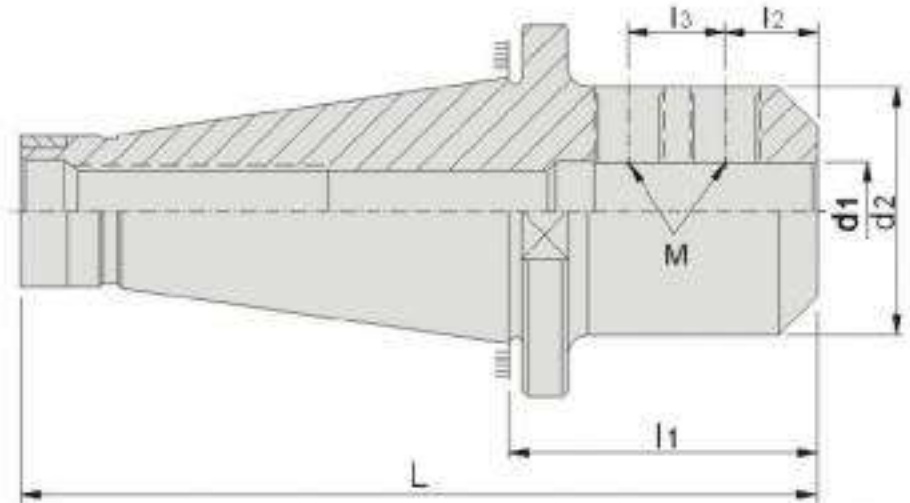
Order No.	Model-ER-l1	L	l2	d1	t2	T DRAW BAR	N.W.
62090-01	NT30xER16A-45	111.4	8	28	M10x1.5P	M12(M12*1.75P) A04(1/2"-12)	0.50kg
62090-02	NT30xER20A-45	113.4		34	M12x1.75P		0.60kg
62090-03	NT30xER25-55	123.4		42	M16x2.0P		0.65kg
62090-04	NT30xER32-60	128.4		50			0.80kg
62090-05	NT30xER40-75	143.4		63			0.90kg
62090-06	NT40xER16A-45	138.4	10	28	M10x1.5P	M16(M16*2.0P) A06(5/8"-11)	0.95kg
62090-07	NT40xER20A-45	138.4		34	M12x1.75P		1.20kg
62090-08	NT40xER25-55	148.4		42	M16x2.0P		1.25kg
62090-09	NT40xER32-60	153.4		50			1.30kg
62090-10	NT40xER40-70	163.4		63	M20x2.0P		1.35kg
62090-11	NT40xER50-80	173.4	78	M24x2.0P	2.00kg		
62090-12	NT50xER32-75	201.8	12	50	M16x2.0P	M24(M24*3.0P) A07(1"-8)	3.20kg
62090-13	NT50xER40-80	206.8		63	M20x2.0P		3.40kg
62090-14	NT50xER50-80	206.8		78	M24x2.0P		3.70kg



**62092**
**NT/SLN**
**Face Mill Arbor**

**DIN 1835**
**DIN 6359**
**DIN ISO 1835-C**
**Feature:**

Inner Dia. tolerance: H5.



Please specify Inch or Metric when ordering.

Unit:mm

Order No.	Model-d1-l1	L	d2	l2	l3	M	N.W.
62092-01	NT30xSLN6-40	108.4	25	18	-	M6x1.0P	0.50kg
62092-02	NT30xSLN8-40		28	18		M8x1.25P	0.60kg
62092-03	NT30xSLN10-40		35	20		M10x1.5P	0.60kg
62092-04	NT30xSLN12-50	118.4	42	22.5	-	M12x1.75P	0.65kg
62092-05	NT30xSLN16-50		48	24		M14x2.0P	0.75kg
62092-06	NT30xSLN20-63		52	25		M16x2.0P	1.10kg
62092-07	NT30xSLN25-80	148.4	65	24	25	M18x2.0P	1.20kg
62092-08	NT40xSLN6-50	143.4	25	18	-	M6x1.0P	0.90kg
62092-09	NT40xSLN8-50		28	18		M8x1.25P	0.95kg
62092-10	NT40xSLN10-50		35	20		M10x1.5P	1.10kg
62092-11	NT40xSLN12-50	156.4	42	22.5	-	M12x1.75P	1.00kg
62092-12	NT40xSLN16-63		48	24		M14x2.0P	1.40kg
62092-13	NT40xSLN20-63		52	25		M16x2.0P	1.45kg
62092-14	NT40xSLN25-80	173.4	65	24	25	M18x2.0P	2.10kg
62092-15	NT40xSLN32-80		72		28	M20x2.0P	2.50kg
62092-16	NT50xSLN6-63	189.8	25	18	-	M6x1.0P	2.90kg
62092-17	NT50xSLN8-63		28	18		M8x1.25P	3.00kg
62092-18	NT50xSLN10-63		35	20		M10x1.5P	3.20kg
62092-19	NT50xSLN12-63	206.8	42	22.5	-	M12x1.75P	3.30kg
62092-20	NT50xSLN16-63		48	24		M14x2.0P	3.50kg
62092-21	NT50xSLN20-63		52	25		M16x2.0P	3.60kg
62092-22	NT50xSLN25-80	226.8	65	24	25	M18x2.0P	4.20kg
62092-23	NT50xSLN32-80		72		28	M20x2.0P	4.40kg
62092-24	NT50xSLN40-100	246.8	90	30	32		M20x2.0P
62092-25	NT50xSLN40-120					4.20kg	
62092-26	NT50xSLN42-120					4.60kg	
62092-27	NT50xSLN50-120	246.8	100	35	35	M24x2.0P	4.80kg
62092-28	NT50xSLN63-120		125	40	40		5.40kg
62092-29	NT50xSLN50.8-120		95	33.1	28.58		M20x2.0P



# Tooling System

## 62094

### NT/FMA/FMB

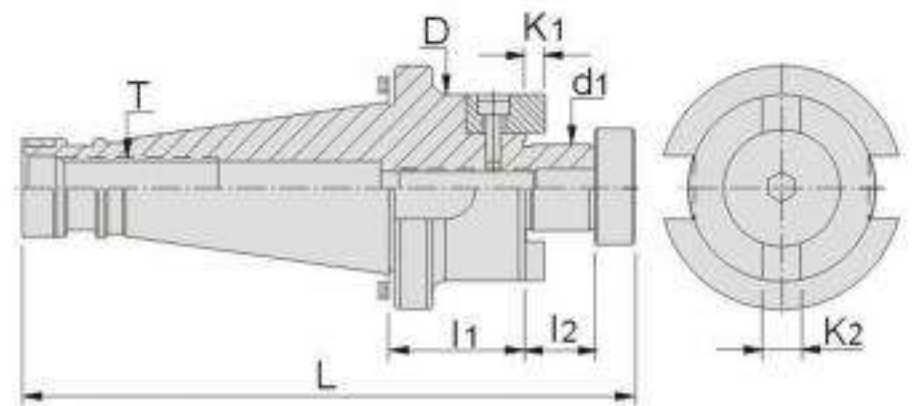
### Face Mill Arbor

TOOLING SYSTEM



### Feature:

- ▶ D1= out dia. of face end mill.
- ▶ Plastic ring on top of arbor to protect cylinder.



Please specify Inch or Metric when ordering.

Unit:mm

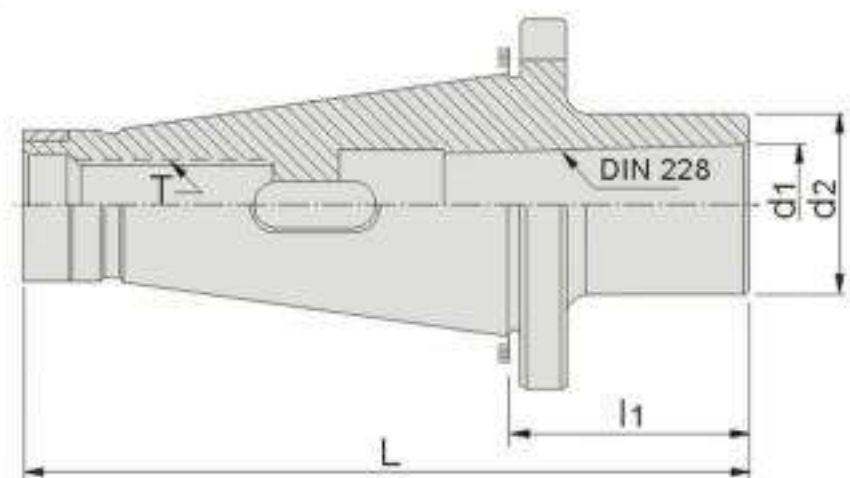
Order No.	Model-d1	D	L	l1	l2	K1	K2	T	N.W.
62094-01	NT30xFMA25.40	46	139.4	35	20	4.5	9.52	M12(M12*1.75P) A04(1/2"-12)	0.55kg
62094-02	NT30xFMA31.75	60	141.4		22	5.7	12.7		0.75kg
62094-03	NT30xFMA38.10	70	148.9		25	6.87	15.87		2.10kg
62094-04	NT40xFMA25.40	63	164.4		20	4.5	9.52	M16(M16*2.0P) A06(5/8"-11)	1.45kg
62094-05	NT40xFMA31.75		166.4		22	5.7	12.7		1.75kg
62094-06	NT40xFMA38.10		173.4		25	6.87	15.87		2.00kg
62094-07	NT40xFMA50.80	98	174.9	36	9.75	19.05	2.55kg		
62094-08	NT40xFMA47.62	128.75	149.4	24	32	12.5	25.4	2.90kg	
62094-09	NT50xFMA25.40	50	182.8	45	20	4.5	9.52	M24(M24*3.0P) A07(1"-8)	3.30kg
62094-10	NT50xFMA31.75	60	184.8		22	5.7	12.7		3.40kg
62094-11	NT50xFMA38.10	70	192.3		25	6.87	15.87		3.60kg
62094-12	NT50xFMA50.80	90	193.3		36	9.75	19.05		3.90kg
62094-13	NT50xFMA47.62	128.75	157.8	24	32	12.5	25.4	4.90kg	
62094-14	NT30xFMB22mm	42	136.4	35	19	4	10	M12(M12*1.75P) A04(1/2"-12)	0.67kg
62094-15	NT30xFMB27mm	60	139.4		20	5	12		1.00kg
62094-16	NT30xFMB32mm	65	141.4		22	6	14		1.20kg
62094-17	NT30xFMB40mm	80	148.9		25	7	16	1.40kg	
62094-18	NT40xFMB22mm	48	163.4		19	4	10	1.25kg	
62094-19	NT40xFMB27mm	58	166.4		20	5	12	M16(M16*2.0P) A06(5/8"-11)	1.45kg
62094-20	NT40xFMB32mm	65	168.4	22	6	14	1.70kg		
62094-21	NT40xFMB40mm	80	175.9	25	7	16	2.50kg		
62094-22	NT50xFMB22mm	48	206.8	45	19	4	10	M24(M24*3.0P) A07(1"-8)	3.50kg
62094-23	NT50xFMB27mm	58	207.8		20	5	12		3.90kg
62094-24	NT50xFMB32mm	65	214.3		22	6	14		4.00kg
62094-25	NT50xFMB40mm	80	217.3		25	7	16		4.83kg




**Feature:**

- ▶ Hardened and precision ground (I.D. & O.D.).
- ▶ Roundness: 0.005mm
- ▶ MTA = type TANG = DIN 228-B.
- ▶ MTB = pull level type = DIN 228-A.
- ▶ Adopting high class tool steel and tempered & ground.
- ▶ Morse taper in inner dia. and outer shank.

TOOLING SYSTEM



Please specify Inch or Metric when ordering.

Unit:mm

Order No.	Model	l1	L	d1	d2	T	N.W.
62096-01	NT30xMTA2	55.5	123.9	17.78	32	M12(M12*1.75P) A04(1/2"-12)	0.50kg
62096-02	NT30xMTA3	74	142.4	23.825	40		0.55kg
62096-03	NT40xMTA2	25	118.4	17.78	32	M16(M16*2.0P) A06(5/8"-11)	0.80kg
62096-04	NT40xMTA3	47	140.4	23.825	40		0.85kg
62096-05	NT40xMTA4	82	175.4	31.267	48		1.25kg
62096-06	NT40xMTA5	170	263.4	44.399	63		1.45kg
62096-07	NT50xMTA2	20	146.8	17.78	32	M24(M24*3.0P) A07(1"-8)	2.80kg
62096-08	NT50xMTA3	30	156.8	23.825	40		2.90kg
62096-09	NT50xMTA4	60	186.8	31.267	48		3.00kg
62096-10	NT50xMTA5	86.2	209.8	44.399	63		3.10kg

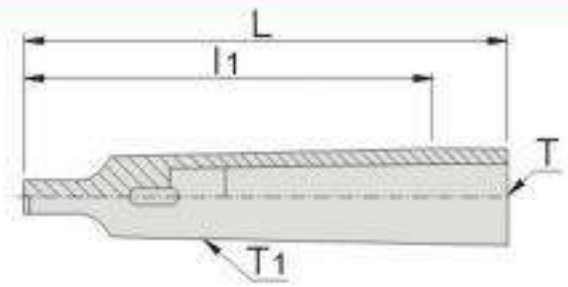


# Tooling System

**62098**

MT

Morse Taper Sleeve



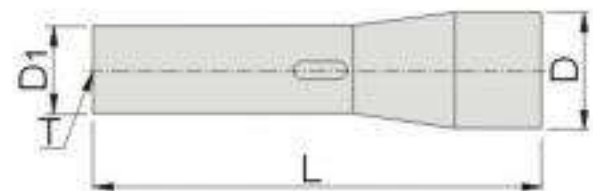
Unit:mm

Order No.	Model	T	T1	L	l1
62098-01	MT1xMT2	MT1	MT2	89	75
62098-02	MT1xMT3	MT1	MT3	100	94
62098-03	MT2xMT3	MT2	MT3	112	94
62098-04	MT1xMT4	MT1	MT4	124	117.5
62098-05	MT2xMT4	MT2	MT4	124	117.5
62098-06	MT3xMT4	MT3	MT4	140	117.5
62098-07	MT1xMT5	MT1	MT5	156	149
62098-08	MT2xMT5	MT2	MT5	156	149
62098-09	MT3xMT5	MT3	MT5	156	149
62098-10	MT4xMT5	MT4	MT5	167	149
62098-11	MT4xMT6	MT4	MT6	220	210
62098-12	MT5xMT6	MT5	MT6	224	210

**62100**

R8/MT

R8 Drill Sleeve



Unit:mm

Order No.	Model	L	D	D1	T
62100-01	R8-MT1	124	32	24.1	7/16"UNF20
62100-02	R8-MT2	136.5			
62100-03	R8-MT3	150			
62100-04	R8-MT4	245			

**62101**

MT2-5

Taper Drift



### Feature:

- ▲ Forged and hardened, high rigid and high force.

Order No.	Model	Taper	Length	N.W.	1 pc pack size	20 pcs pack size
62101	MT2-5	M.T.#2 #3 #4 #5	380mm	1.3kg	390x45x37mm	410x200x225mm



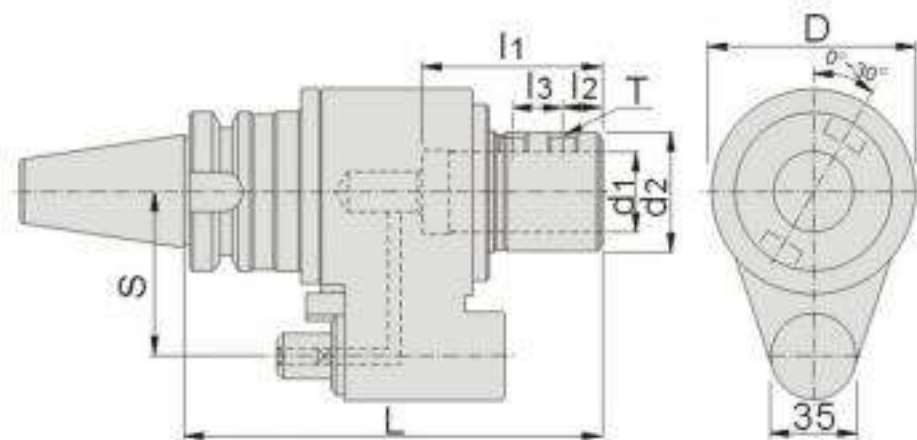
**62102** BT/OSL Side Lock Oil Hole Holder



**Feature:**

- ▶ Specify S spec. (center distance) when ordering.
- ▶ Check high pressure device of machine center when apply.
- ▶ Water pressure bear: 7kg/cm<sup>2</sup>
- ▶ High rotary speed: 3000rpm
- ▶ Water pressure can be custom made for extra quotation.

TOOLING SYSTEM



Unit:mm

Order No.	Model-d1-L	l1	l2	l3	D	d2	S	T	N.W.			
62102-01	BT40xOSL16-165	48	25	-	82	46.5	65	M12x1.75P	3.1kg			
62102-02	BT40xOSL20-165	50							3.5kg			
62102-03	BT40xOSL25-165	56	15	20				47	60	M16x2.0P	3.5kg	
62102-04	BT40xOSL32-165	60				3.5kg						
62102-05	BT40xOSL16-165S	48	25	-		48	60			M12x1.75P	3.1kg	
62102-06	BT40xOSL20-165S	50						3.5kg				
62102-07	BT40xOSL25-165S	56	15	20	49.5			60	M12x1.75P	3.5kg		
62102-08	BT40xOSL32-165S	60				3.8kg						
62102-09	BT50xOSL16-165	48	25	-		98	56		80	M14x2.0P	7.0kg	
62102-10	BT50xOSL20-165	50			7.5kg							
62102-11	BT50xOSL25-165	56	15	20	105			56		82	M16x2.0P	7.5kg
62102-12	BT50xOSL32-165	60				7.8kg						
62102-13	BT50xOSL40-170	62	15	25		98	58		82		M14x2.0P	8.5kg
62102-14	BT50xOSL16-165M	48	25	-	98			58		82	M12x1.75P	7.1kg
62102-15	BT50xOSL20-165M	50									7.6kg	
62102-16	BT50xOSL25-165M	56	15	20		105	56		85		M16x2.0P	7.7kg
62102-17	BT50xOSL32-165M	60			7.8kg							
62102-18	BT50xOSL40-170M	62	15	25	98			58		85	M14x2.0P	8.5kg
62102-19	BT50xOSL16-165L	48	25	-		98	58		85		M12x1.75P	7.2kg
62102-20	BT50xOSL20-165L	50									7.8kg	
62102-21	BT50xOSL25-165L	56	15	20	105			56		85	M16x2.0P	7.8kg
62102-22	BT50xOSL32-165L	60				8.0kg						
62102-23	BT50xOSL40-170L	62	15	25		105	56		85		M14x2.0P	8.7kg

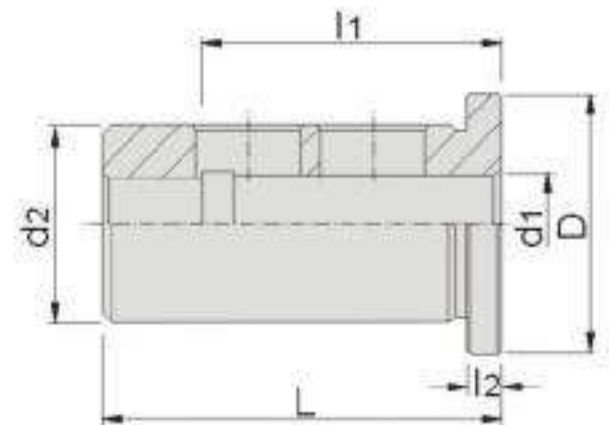


# Tooling System

**62104**

OSL

▶▶ Straight Sleeve(For Side Lock Oil Hole Holder)



Unit:mm

Order No.	Model-d2-d1	D	L	l1	l2	N.W.
62104-01	OSL-20-16	30	54	48	5.5	0.07kg
62104-02	OSL-25-16	35	60	48		0.19kg
62104-03	OSL-25-20			50		0.15kg
62104-04	OSL-32-16	42	64	48		0.35kg
62104-05	OSL-32-20			50		0.32kg
62104-06	OSL-32-25			56		0.22kg
62104-07	OSL-40-16			48		0.57kg
62104-08	OSL-40-20	50	74	50		0.54kg
62104-09	OSL-40-25			56		0.45kg
62104-10	OSL-40-32			60		0.30kg

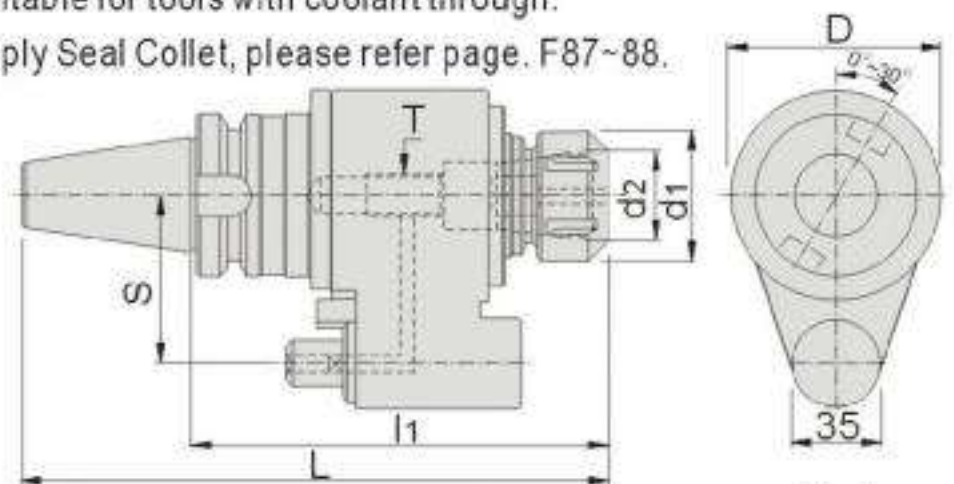
**62108**

BT/OHER

▶▶ Oil Hole Collet Chuck



- ▶ Specify S spec.(center distance) when ordering.
- ▶ Suitable for tools with coolant through.
- ▶ Apply Seal Collet, please refer page. F87~88.



Unit:mm



P.F95

P.F96

P.F81-85

Order No.	Model-d2-d1	L	l1	D	d1	d2 ER	S	T	N.W.
62108-01	BT40xOHER16-160	225.4	160	82	28	16	65	M10	3.8kg
62108-02	BT40xOHER20-160				34	20		M12	4.1kg
62108-03	BT40xOHER25-160				42	25		M16	4.3kg
62108-04	BT40xOHER32-160				50	32			4.5kg
62108-05	BT50xOHER16-160	261.8	160	98	28	16	80	M10	7.0kg
62108-06	BT50xOHER20-160				34	20		M12	7.1kg
62108-07	BT50xOHER25-160				42	25		M16	7.2kg
62108-08	BT50xOHER32-160				50	32			7.3kg
62108-09	BT50xOHER40-160				63	40			M20



**62110**
**DT/MT**
**Drill Tapping Set**


Order No.	Body	N.W.	Part specifications		
			Tapper spec.	MT Sleeve	N.W.
62110-01	DT33-MT3	3.15	M5(W3/16), M6(W1/4), M8, M10(W3/8) M12, M14, M18(W3/4, PT3/8), M20, M16 M22(W7/8), M24, M27(W1"), M28, M30 M32(W1 1/4, PT7/8), M33, M36(PT11/8) M40, (W1 1/2), M42(PT1 1/4), W1/2, W5/8 W11/8, PT1/8, PT1/2, PT1"(W1 3/8, M35)	DT33-MT1 DT33-MT2 DT33-MT3 DT33-MT4	0.7kg
62110-02	DT33-MT4	3.48			
62110-03	DT33-MT5	4.38			
62110-04	DT52-MT5	7.43	W20, M22(W7/8), M24, M27(W1"), M30 M33, M36(PT1 1/8), M40, (W1 1/2), M42(PT1 1/4), M45(W1 3/4, PT1 3/8), M48(PT1 1/2), M52(PT1 3/4), M56, M60(PT2") M64(W2 1/2) W2", W1 1/8, W1 1/4(PT7/8, M32)(PT1 W1 3/8, M35)	DT52-MT2 DT52-MT3 DT52-MT4 DT52-MT5	2kg



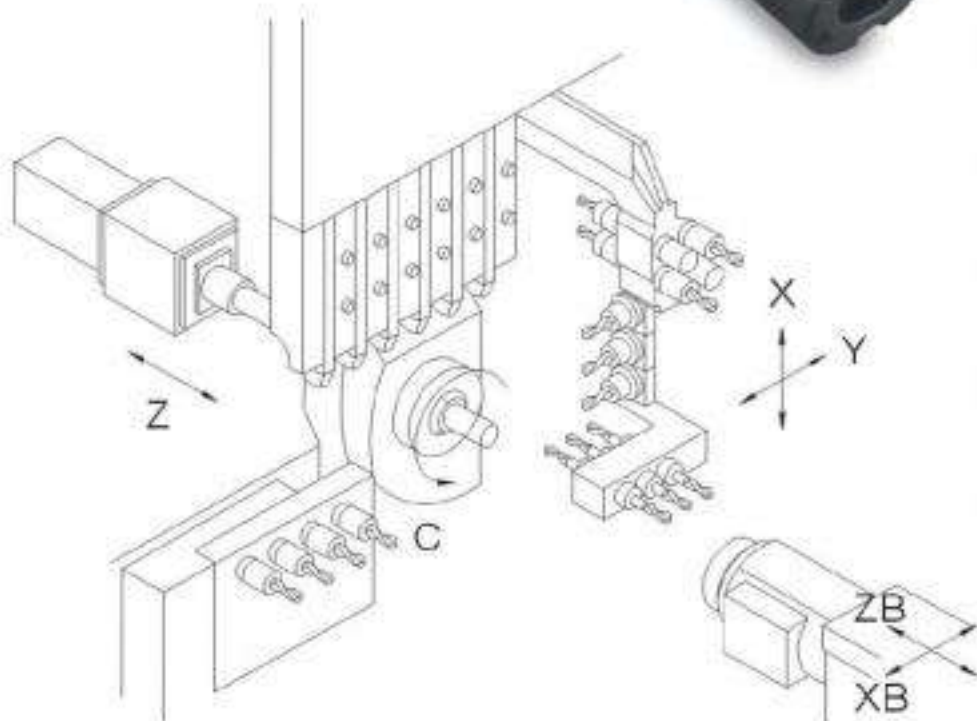
# Tooling System

**62112**

DE/ER

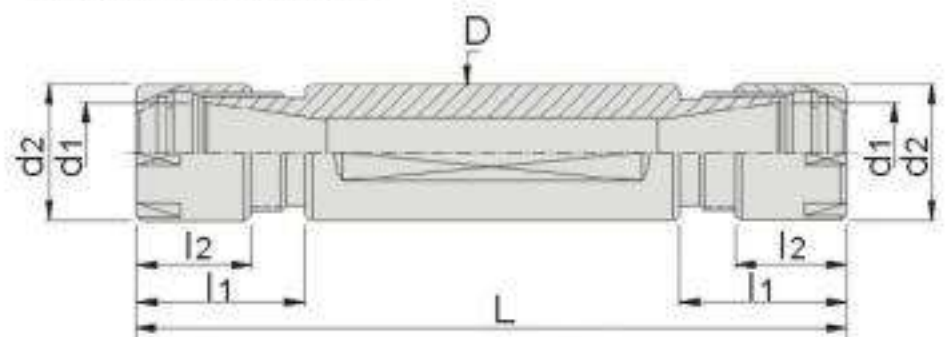
Double-ended Straight Shank ER Collet Chuck For Automatic Lathe

TOOLING SYSTEM



## Feature:

- ▶ Material: alloy steel of Nickel, Chromium and Molybdenum. (less distortion and prevent vibration)
- ▶ Hardness: Body 56° - 60°HRC, Thread 44° ~ 46°
- ▶ Concentricity of the inner hole is 0.005 ~ 0.008mm with high efficiency.
- ▶ Concentricity of the internal hole is 0.005mm and extends tool life.
- ▶ Double-head style is suitable for automatic lathe and various processing.
- ▶ Suitable for various CNC lathes.
- ▶ Compatible with three types of ER collets: 0.005mm (Class 0), 0.01mm (Class 1) and 0.015mm (Class 2).
- ▶ Compatible with ER-TC Rigid Tap Collets and control machinery for rigid tap processing.
- ▶ Compatible with Floating Tap Collets and control machinery for soft tap processing.
- ▶ Compatible with Coolant Collets and control machinery for better metal chip removal.
- ▶ C = 20, suitable for brand, TAKAMAZ CITIZEN MIYANO, conforming to SWISS MODEL.
- ▶ C = 22, suitable for brand, STAR, conforming to SWISS MODEL.
- ▶ C = 23, suitable for brand, NOMURA, conforming to SWISS MODEL.



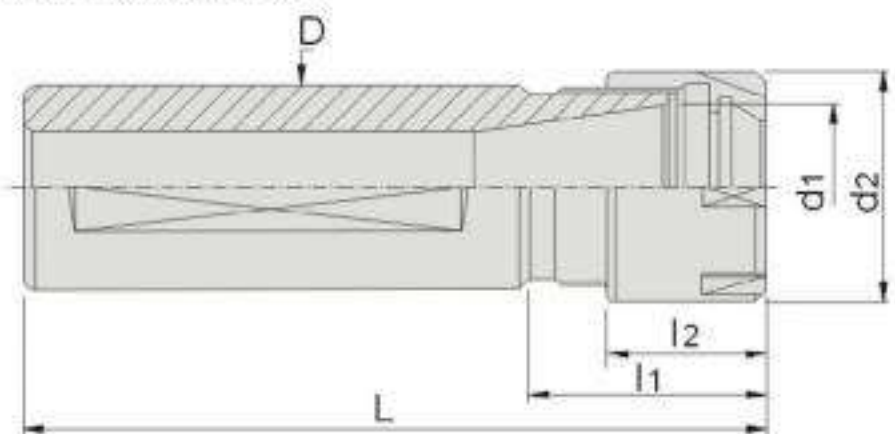
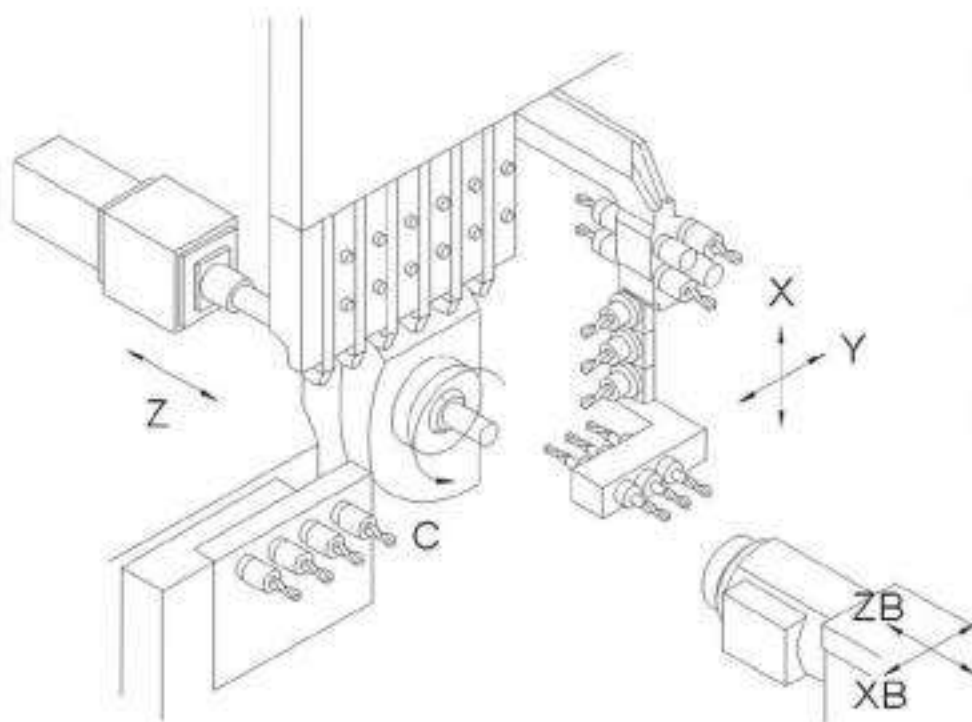
Unit:mm

Order No.	Model	L	l1	l2	D	d1	d2	N.W.	
62112-01	DE20xER11M-50	83.2	16.6	12	20	11	16	0.12kg	
62112-02	DE20xER11M-75	108.2						0.12kg	
62112-03	DE20xER16M-50	103.2	26.6	18		16	22	0.10kg	
62112-04	DE20xER16M-75	128.2						0.12kg	
62112-05	DE22xER11M-60	93.2	16.6	12	22	11	16	0.12kg	
62112-06	DE22xER11M-100	133.2						0.14kg	
62112-07	DE22xER16M-60	113.2						26.6	18
62112-08	DE22xER16M-100	153.2	0.16kg						
62112-09	DE23xER11M-60	93.2	16.6	12		23	11	16	0.16kg
62112-10	DE23xER11M-100	133.2							0.18kg
62112-11	DE23xER16M-60	113.2			26.6				18
62112-12	DE23xER16M-100	153.2	0.21kg						




**Feature:**

- ▶ Material: alloy steel of Nickel, Chromium and Molybdenum. (less distortion and prevent vibration)
- ▶ Hardness: Body 56° - 60°HRC, Thread 44° ~ 46°
- ▶ Concentricity of the inner hole is 0.005 ~ 0.008mm with high efficiency.
- ▶ Concentricity of the internal hole is 0.005mm and extends tool life.
- ▶ Double-head style is suitable for automatic lathe and various processing.
- ▶ Suitable for various CNC lathes.
- ▶ Compatible with three types of ER collets: 0.005mm (Class 0), 0.01mm (Class 1) and 0.015mm (Class 2).
- ▶ Compatible with ER-TC Rigid Tap Collets and control machinery for rigid tap processing.
- ▶ Compatible with Floating Tap Collets and control machinery for soft tap processing.
- ▶ Compatible with Coolant Collets and control machinery for better metal chip removal.
- ▶ C = 20, suitable for brand, TAKAMAZ CITIZEN MIYANO, conforming to SWISS MODEL.
- ▶ C = 22, suitable for brand, STAR, conforming to SWISS MODEL
- ▶ C = 23, suitable for brand, NOMURA, conforming to SWISS MODEL


**P.F95    P.F96    P.F80-82**

Unit: mm

Order No.	Model	L	l <sub>1</sub>	l <sub>2</sub>	D	d <sub>1</sub>	d <sub>2</sub>	N.W.
62114-01	C20xER11M-60	76.6	16.6	6.6	20	11	16	0.14kg
62114-02	C20xER16M-60	86.6	26.6	10.6		16	22	0.22kg
62114-03	C22xER11M-60	103.2	16.6	6.6	22	11	16	0.26kg
62114-04	C22xER16M-60	86.6	26.6	10.6		16	22	0.28kg
62114-05	C23xER11M-60	93.2	16.6	6.6	23	11	16	0.30kg
62114-06	C23xER16M-60	86.6	26.6	10.6		16	22	0.32kg
62114-07	C25xER20M-60	88	16.5	11.5	25	20	28	0.34kg

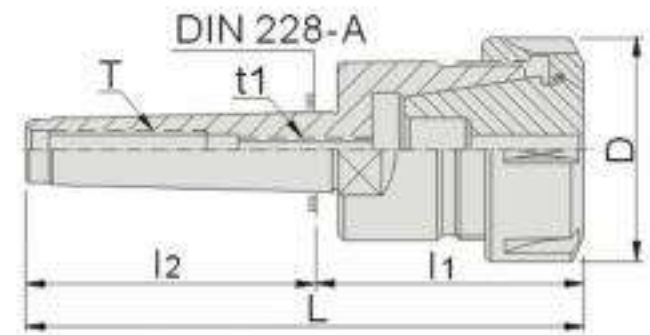


# Tooling System

**62116**

MTB/ER

Collet Holder



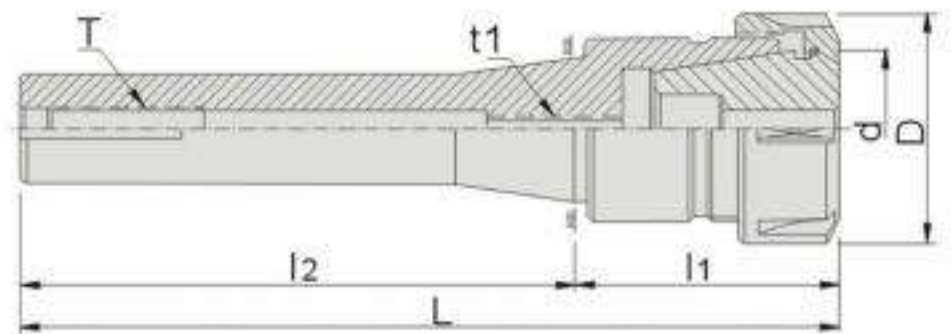
Unit:mm

Order No.	Model-I1	l2	L	D	t1	T	N.W.
62116-01	MTB2xER20A-52	64	116	35	M10X1.5P	M10(M10*1.5P), A02(3/8"-16)	0.45kg
62116-02	MTB2xER25-55		119	42			0.50kg
62116-03	MTB3xER25-55	81	136	42	M12X1.75P	M12(M12*1.75P), A04(1/2"-12)	0.60kg
62116-04	MTB3xER32-60		141	50			0.80kg
62116-05	MTB3xER40-70		151	63			1.30kg
62116-06	MTB4xER32-60	102.5	162.5	50	M16X2.0P	M16(M16*2.0P), A06(5/8"-11)	0.95kg
62116-07	MTB4xER40-70		172.5	63			1.50kg

**62118**

R8/ER

Collet Holder



Unit:mm

Order No.	Model-I1	l2	L	D	d	t1	T	N.W.
62118-01	R8xER16A-38	102	135	28	16	M10X1.5P	7/16"-20	0.65kg
62118-02	R8xER32-60		162	50	32	M12X1.75P		0.90kg
62118-03	R8xER40-65		168	63	40	M16X2.0P		1.10kg



# 62120

C/ER

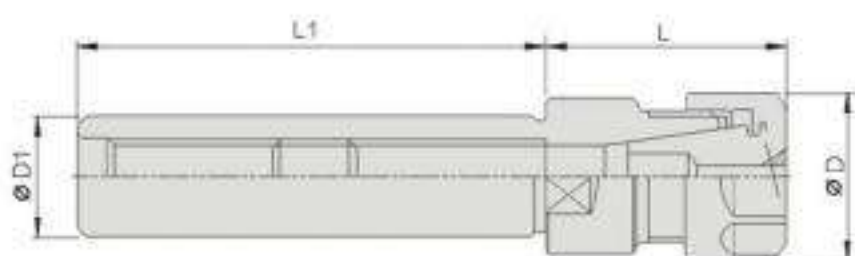
Straight Shank



P.F95 P.F96 P.F81-85

Unit: mm

Order No.	Model	D1	L1	L	D	Type
62120-01	C20-ER16-50	20	50	30	28	ER16
62120-02	C20-ER16-100		100			
62120-03	C20-ER16-150		150			
62120-04	C20-ER20-50	20	50	36	34	ER20
62120-05	C20-ER20-100		100			
62120-06	C20-ER25-50		50			
62120-07	C20-ER25-100	25	100	46	42	ER25
62120-08	C20-ER25-150		150			
62120-09	C25-ER16-100		100			
62120-10	C25-ER16-150	25	150	30	28	ER16
62120-11	C25-ER20-150		150			
62120-12	C25-ER25-100		100			
62120-13	C25-ER25-150	25	150	46	42	ER25
62120-14	C25-ER32-80		80			
62120-15	C25-ER40-100		100			
62120-16	C32-ER25-60	32	60	46	42	ER25
62120-17	C32-ER32-100		100			
62120-18	C32-ER40-100		100			
62120-19	C40-ER32-100	40	100	54	50	ER32
62120-20	C40-ER40-100					



(Collet is not included)

# 62122

C/ER

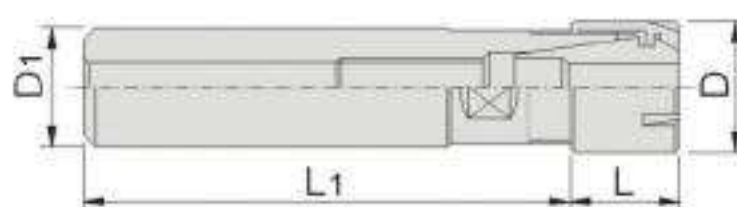
Straight Shank



P.F95 P.F96 P.F81-85

Unit: mm

Order No.	Model	D1	L1	L	D	Type
62122-01	C16-ER11-50M	16	50	12	16	ER11
62122-02	C16-ER11-100M		100			
62122-03	C20-ER16-50M	20	50	18	22	ER16
62122-04	C20-ER16-100M		100			
62122-05	C20-ER16-150M		150			
62122-06	C20-ER20-50M	20	50	19	28	ER20
62122-07	C20-ER20-100M		100			
62122-08	C20-ER20-150M		150			
62122-09	C25-ER20-50M	25	50	19	28	ER20
62122-10	C25-ER20-100M		100			
62122-11	C25-ER20-150M		150			



(Collet is not included.)



# Tooling System

## 62124

### ST/ER

### ER Spring Collet Chuck System Set

TOOLING SYSTEM



Refer page F60 for chuck.

Unit:mm

Order No.	Model	Set Range	Collet	N.W.
62124-01	ST16-ER11-50-13PCS	1-7	ER11 13PCS	0.6kg
62124-02	ST16-ER11-50-7PCS	1-7	ER11 7PCS	0.5kg
62124-03	ST16-ER11-100-13PCS	1-7	ER11 13PCS	0.7kg
62124-04	ST16-ER11-100-7PCS	1-7	ER11 7PCS	0.6kg
62124-05	ST16-ER16-100-10PCS	1-10	ER16 10PCS	1kg
62124-06	ST16-ER16-100-8PCS	3-10	ER16 8PCS	1kg
62124-07	ST20-ER16-50-10PCS	1-10	ER16 10PCS	1.05kg
62124-08	ST20-ER16-50-8PCS	3-10	ER16 8PCS	1kg
62124-09	ST20-ER16-100-10PCS	1-10	ER16 10PCS	1.1kg
62124-10	ST20-ER16-100-8PCS	3-10	ER16 8PCS	1.05kg
62124-11	ST20-ER16-150-10PCS	1-10	ER16 10PCS	1.2kg
62124-12	ST20-ER16-150-8PCS	3-10	ER16 8PCS	1.15kg
62124-13	ST25-ER16-50-10PCS	1-10	ER16 10PCS	1.1kg
62124-14	ST25-ER16-50-8PCS	3-10	ER16 8PCS	1.05kg
62124-15	ST25-ER16-100-10PCS	1-10	ER16 10PCS	1.2kg
62124-16	ST25-ER16-100-8PCS	3-10	ER16 8PCS	1.15kg
62124-17	ST25-ER16-150-10PCS	1-10	ER16 10PCS	1.35kg
62124-18	ST25-ER16-150-8PCS	3-10	ER16 8PCS	1.3kg
62124-19	ST20-ER20-50-12PCS	2-13	ER20 12PCS	1.2kg
62124-20	ST20-ER20-50-10PCS	4-13	ER20 10PCS	1.15kg
62124-21	ST20-ER20-100-12PCS	2-13	ER20 12PCS	1.3kg
62124-22	ST20-ER20-100-10PCS	4-13	ER20 10PCS	1.25kg



Refer page F60 for chuck.

Unit:mm

Order No.	Model	Set Range	Collet	N.W.
62124-23	ST20-ER20-150-12PCS	2-13	ER20 12PCS	1.4kg
62124-24	ST20-ER20-150-10PCS	4-13	ER20 10PCS	1.35kg
62124-25	ST25-ER20-50-12PCS	2-13	ER20 12PCS	1.3kg
62124-26	ST25-ER20-50-10PCS	4-13	ER20 10PCS	1.25kg
62124-27	ST25-ER20-100-12PCS	2-13	ER20 12PCS	1.4kg
62124-28	ST25-ER20-100-10PCS	4-13	ER20 10PCS	1.35kg
62124-29	ST25-ER20-150-12PCS	2-13	ER20 12PCS	1.5kg
62124-30	ST25-ER20-150-10PCS	4-13	ER20 10PCS	1.45kg
62124-31	ST20-ER25-50-15PCS	2-16	ER25 15PCS	2.4kg
62124-32	ST20-ER25-50-7PCS	4-16	ER25 7PCS	1.9kg
62124-33	ST20-ER25-100-15PCS	2-16	ER25 15PCS	2.4kg
62124-34	ST20-ER25-100-7PCS	4-16	ER25 7PCS	1.9kg
62124-35	ST20-ER25-150-15PCS	2-16	ER25 15PCS	2.5kg
62124-36	ST20-ER25-150-7PCS	4-16	ER25 7PCS	2kg
62124-37	ST25-ER25-100-15PCS	2-16	ER25 15PCS	2.5kg
62124-38	ST25-ER25-100-7PCS	4-16	ER25 7PCS	2kg
62124-39	ST25-ER25-150-15PCS	2-16	ER25 15PCS	2.65kg
62124-40	ST25-ER25-150-7PCS	4-16	ER25 7PCS	2.2kg
62124-41	ST32-ER25-60-15PCS	2-16	ER25 15PCS	2.5kg
62124-42	ST32-ER25-60-7PCS	4-16	ER25 7PCS	2kg
62124-43	ST25-ER32-80-18PCS	3-20	ER32 18PCS	4.1kg
62124-44	ST25-ER32-80-11PCS	4-20	ER32 11PCS	3kg
62124-45	ST25-ER32-80-6PCS	6-20	ER32 6PCS	2.7kg
62124-46	ST32-ER32-100-18PCS	3-20	ER32 18PCS	4.3kg
62124-47	ST32-ER32-100-11PCS	4-20	ER32 11PCS	3.2kg
62124-48	ST32-ER32-100-6PCS	6-20	ER32 6PCS	2.9kg
62124-49	ST40-ER32-100-18PCS	3-20	ER32 18PCS	4.5kg
62124-50	ST40-ER32-100-11PCS	4-20	ER32 11PCS	3.4kg
62124-51	ST40-ER32-100-6PCS	6-20	ER32 6PCS	3.1kg
62124-52	ST32-ER40-100-23PCS	4-26	ER40 23PCS	7.3kg
62124-53	ST32-ER40-100-15PCS	4-26	ER40 15PCS	6.1kg
62124-54	ST32-ER40-100-7PCS	6-25	ER40 7PCS	4.6kg
62124-55	ST40-ER40-100-23PCS	4-26	ER40 23PCS	7.6kg
62124-56	ST40-ER40-100-15PCS	4-26	ER40 15PCS	6.5kg
62124-57	ST40-ER40-100-7PCS	6-25	ER40 7PCS	5kg



TOOLING SYSTEM



# Tooling System

**62126**

ST/ER

ER Spring Collet Chuck System Set



Refer page F59 for chuck.

Unit:mm

Order No.	Model	Set Range	Collet	N.W.
62126-01	ST16-ER11M-50-13PCS	1-7	ER11 13PCS	0.6kg
62126-02	ST16-ER11M-100-13PCS	1-7	ER11 13PCS	0.7kg
62126-03	ST16-ER16M-100-10PCS	1-10	ER16 10PCS	1kg
62126-04	ST20-ER16M-50-10PCS	1-10	ER16 10PCS	1.05kg
62126-05	ST20-ER16M-100-10PCS	1-10	ER16 10PCS	1.1kg
62126-06	ST20-ER16M-150-10PCS	1-10	ER16 10PCS	1.2kg
62126-07	ST25-ER16M-100-10PCS	1-10	ER16 10PCS	1.2kg
62126-08	ST25-ER16M-150-10PCS	1-10	ER16 10PCS	1.35kg
62126-09	ST20-ER20M-50-12PCS	2-13	ER20 12PCS	1.2kg
62126-10	ST20-ER20M-100-12PCS	2-13	ER20 12PCS	1.3kg
62126-11	ST20-ER20M-150-12PCS	2-13	ER20 12PCS	1.4kg
62126-12	ST25-ER20M-100-12PCS	2-13	ER20 12PCS	1.4kg
62126-13	ST25-ER20M-150-12PCS	2-13	ER20 12PCS	1.5kg

**62128**

R8/ER

ER Spring Collet Chuck System Set Of Collets and R8 Shank



Refer page F59 for chuck.

Unit:mm

Order No.	Model	Set Range	Collet	N.W.
62128-01	R8-ER16-38-10PCS	1-10	ER16 10PCS	1.5kg
62128-02	R8-ER32-40-18PCS	3-20	ER32 18PCS	4.3kg
62128-03	R8-ER32-40-11PCS	4-20	ER32 11PCS	3.2kg
62128-04	R8-ER32-40-6PCS	6-20	ER32 6PCS	2.9kg
62128-05	R8-ER40-70-23PCS	4-26	ER40 23PCS	7.3kg
62128-06	R8-ER40-70-15PCS	4-26	ER40 15PCS	6.1kg
62128-07	R8-ER40-70-7PCS	6-25	ER40 7PCS	4.6kg



**62130** MT/ER >> ER Spring Collet Chuck System Set



TOOLING SYSTEM

Refer page F59 for chuck.

Specify Inch or Metric when ordering.

Order No.	Model	Set Range	Collet	N.W.	Draw Bar
62130-01	MTB2-ER16-40-10PCS	1-10	ER16 10PCS	1.05	M10(M10*1.5P) A02(3/8"-16)
62130-02	MTB2-ER20-43-12PCS	2-13	ER20 12PCS	1.3	
62130-03	MTB2-ER25-47-15PCS	2-16	ER25 15PCS	2.4	
62130-04	MTB2-ER25-47-7PCS	4-16	ER25 7PCS	2	
62130-05	MTB3-ER16-40-10PCS	1-10	ER16 10PCS	1.15	M10(M10*1.5P) M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)
62130-06	MTB3-ER20-43-12PCS	2-13	ER20 12PCS	1.35	
62130-07	MTB3-ER25-47-15PCS	2-16	ER25 15PCS	2.5	
62130-08	MTB3-ER25-47-7PCS	4-16	ER25 7PCS	2.1	
62130-09	MTB3-ER32-70-18PCS	3-20	ER32 18PCS	4.1	
62130-10	MTB3-ER32-70-11PCS	4-20	ER32 11PCS	3	
62130-11	MTB3-ER32-70-6PCS	6-20	ER32 6PCS	2.7	
62130-12	MTB3-ER40-80-23PCS	4-26	ER40 23PCS	7.2	
62130-13	MTB3-ER40-80-15PCS	4-26	ER40 15PCS	6	M16(M16*2.0P) A06(5/8"-11)
62130-14	MTB3-ER40-80-7PCS	6-25	ER40 7PCS	4.5	
62130-15	MTB4-ER32-60-18PCS	3-20	ER32 18PCS	4.3	
62130-16	MTB4-ER32-60-11PCS	4-20	ER32 11PCS	3.2	
62130-17	MTB4-ER32-60-6PCS	6-20	ER32 6PCS	2.9	M24(M24*3.0P) A07(1"-8)
62130-18	MTB4-ER40-82-23PCS	4-26	ER40 23PCS	7.3	
62130-19	MTB4-ER40-82-15PCS	4-26	ER40 15PCS	6.1	
62130-20	MTB4-ER40-82-7PCS	6-25	ER40 7PCS	4.6	
62130-21	MTB5-ER40-82-23PCS	4-26	ER40 23PCS	8.2	M24(M24*3.0P) A07(1"-8)
62130-22	MTB5-ER40-82-15PCS	4-26	ER40 15PCS	6.9	
62130-23	MTB5-ER40-82-7PCS	6-25	ER40 7PCS	5.4	
62130-24	MTB5-ER50-85-12PCS	12-34	ER50 12PCS	9.5	



# Tooling System

## 62132

### NT/ER

### ER Spring Collet Chuck System Set



Refer page F49 for chuck.

Specify Inch or Metric when ordering.

Order No.	Model	Set Range	Collet	N.W.	Draw Bar
62132-01	NT30-ER16-76-10PCS	1-10	ER16 10PCS	1.7	M12(M12*1.75P) A04(1/2"-12)
62132-02	NT30-ER20-76-12PCS	2-13	ER20 12PCS	1.8	
62132-03	NT30-ER25-55-15PCS	2-16	ER25 15PCS	2.8	
62132-04	NT30-ER25-55-7PCS	4-16	ER25 7PCS	2.4	
62132-05	NT30-ER32-55-18PCS	3-20	ER32 18PCS	4.2	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)
62132-06	NT30-ER32-55-11PCS	4-20	ER32 11PCS	3.2	
62132-07	NT30-ER32-55-6PCS	6-20	ER32 6PCS	2.8	
62132-08	NT30-ER40-70-23PCS	4-26	ER40 23PCS	7.3	
62132-09	NT30-ER40-70-15PCS	4-26	ER40 15PCS	6	
62132-10	NT30-ER40-70-7PCS	6-25	ER40 7PCS	4.6	
62132-11	NT40-ER16-76-10PCS	1-10	ER16 10PCS	2.4	M16(M16*2.0P) A06(5/8"-11)
62132-12	NT40-ER20-76-12PCS	2-13	ER20 12PCS	2.5	
62132-13	NT40-ER25-50-15PCS	2-16	ER25 15PCS	3.3	
62132-14	NT40-ER25-50-7PCS	4-16	ER25 7PCS	3	
62132-15	NT40-ER32-50-18PCS	3-20	ER32 18PCS	4.8	M16(M16*2.0P) A06(5/8"-11)
62132-16	NT40-ER32-50-11PCS	4-20	ER32 11PCS	3.8	
62132-17	NT40-ER32-50-6PCS	6-20	ER32 6PCS	3.4	
62132-18	NT40-ER40-60-23PCS	4-26	ER40 23PCS	8.2	
62132-19	NT40-ER40-60-15PCS	4-26	ER40 15PCS	6.9	
62132-20	NT40-ER40-60-7PCS	6-25	ER40 7PCS	5.2	
62132-21	NT40-ER50-80-12PCS	12-34	ER50 12PCS	10	M24(M24*3.0P) A07(1"-8)
62132-22	NT50-ER32-60-18PCS	3-20	ER32 18PCS	6.4	
62132-23	NT50-ER32-60-11PCS	4-20	ER32 11PCS	5.4	
62132-24	NT50-ER32-60-6PCS	6-20	ER32 6PCS	5	
62132-25	NT50-ER40-65-23PCS	4-26	ER40 23PCS	9.8	
62132-26	NT50-ER40-65-15PCS	4-26	ER40 15PCS	8.5	
62132-27	NT50-ER40-65-7PCS	6-25	ER40 7PCS	7	
62132-28	NT50-ER50-65-12PCS	12-34	ER50 12PCS	11	



**62134**
**BT/ER**
**ER Spring Collet Chuck System Set**

**TOOLING SYSTEM**

Refer page F14~F16 for chuck.

Order No.	Model	Set Range	Collet	N.W.
62134-01	BT30-ER16-60-10PCS	1-10	ER16 10PCS	1.9kg
62134-02	BT30-ER16-100-10PCS	1-10	ER16 10PCS	2kg
62134-03	BT30-ER20-60-12PCS	2-13	ER20 12PCS	2.5kg
62134-04	BT30-ER20-100-12PCS	2-13	ER20 12PCS	2.6kg
62134-05	BT30-ER25-60-15PCS	2-16	ER25 15PCS	2.5kg
62134-06	BT30-ER25-60-7PCS	4-16	ER25 7PCS	2.8kg
62134-07	BT30-ER32-60-18PCS	3-20	ER32 18PCS	4.4kg
62134-08	BT30-ER32-60-11PCS	4-20	ER32 11PCS	3.8kg
62134-09	BT30-ER32-60-6PCS	6-20	ER32 6PCS	3.4kg
62134-10	BT40-ER16-70-10PCS	1-10	ER16 10PCS	2.3kg
62134-11	BT40-ER16-100-10PCS	1-10	ER16 10PCS	2.7kg
62134-12	BT40-ER20-70-12PCS	2-13	ER20 12PCS	2.8kg
62134-13	BT40-ER20-100-12PCS	2-13	ER20 12PCS	3kg
62134-14	BT40-ER25-70-15PCS	2-16	ER25 15PCS	3.2kg
62134-15	BT40-ER25-100-7PCS	4-16	ER25 7PCS	3kg
62134-16	BT40-ER32-70-18PCS	3-20	ER32 18PCS	5.2kg
62134-17	BT40-ER32-70-11PCS	4-20	ER32 11PCS	4.2kg
62134-18	BT40-ER32-70-6PCS	6-20	ER32 6PCS	3.8kg
62134-19	BT40-ER40-80-23PCS	4-26	ER40 23PCS	8.9kg
62134-20	BT40-ER40-80-15PCS	4-26	ER40 15PCS	7.6kg
62134-21	BT40-ER40-80-7PCS	6-25	ER40 7PCS	4.5kg
62134-22	BT40-ER50-90-12PCS	12-34	ER50 12PCS	9kg
62134-23	BT50-ER32-100-18PCS	3-20	ER32 18PCS	7.5kg
62134-24	BT50-ER40-100-23PCS	4-26	ER40 23PCS	11.3kg
62134-25	BT50-ER40-100-15PCS	4-26	ER40 15PCS	10kg
62134-26	BT50-ER50-100-12PCS	12-34	ER50 12PCS	12kg



# Tooling System

**62136**

DAT/ER

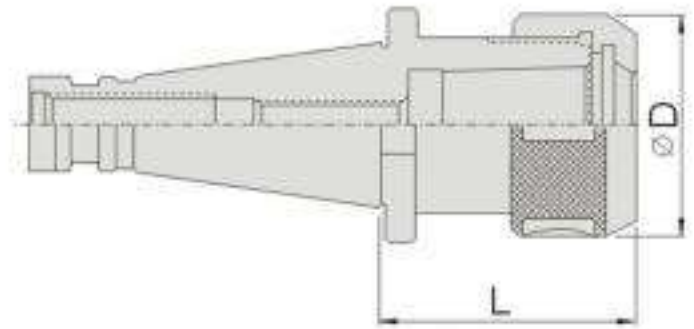
ER Spring Collet Chuck System Set



Refer page F32~F34 for chuck.

Order No.	Model	Set Range	Collet	N.W.
62136-01	DAT30-ER16-60-10PCS	1-10	ER16 10PCS	1.8kg
62136-02	DAT30-ER20-60-12PCS	2-13	ER20 12PCS	2.4kg
62136-03	DAT30-ER25-60-15PCS	2-16	ER25 15PCS	2.7kg
62136-04	DAT30-ER32-60-18PCS	3-20	ER32 18PCS	4.2kg
62136-05	DAT40-ER16-70-10PCS	1-10	ER16 10PCS	2.2kg
62136-06	DAT40-ER20-70-12PCS	2-13	ER20 12PCS	2.7kg
62136-07	DAT40-ER25-70-15PCS	2-16	ER25 15PCS	3.1kg
62136-08	DAT40-ER32-70-18PCS	3-20	ER32 18PCS	5.2kg
62136-09	DAT40-ER40-80-23PCS	4-26	ER40 23PCS	8.9kg
62136-10	DAT40-ER40-80-15PCS	4-26	ER40 15PCS	7.0kg
62136-11	DAT50-ER32-100-18PCS	3-20	ER32 18PCS	7.0kg
62136-12	DAT50-ER40-100-15PCS	4-26	ER40 15PCS	9.5kg
62136-13	DAT50-ER40-100-23PCS	4-26	ER50 23PCS	11.3kg



**62138**
**OZ**
**Collet Chuck**

**P.F69**
**OZ25** Specify Inch or Metric when ordering.

Order No.	Model	L	ØD	Collet	Braw Bar	N.W.
62138-01	NT30-OZ25-70	70	60	OZ25	M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13)	1.0kg
62138-02	NT40-OZ25-70	70	60	OZ25	M16(M16*2.0P) A06(5/8"-11)	1.3kg
62138-03	NT50-OZ25-73	73	60	OZ25	M24(M24*3.0P) A07(1"-8)	3.2kg
62138-04	MTB2-OZ25-85	85	60	OZ25	M10*1.5P	1.0kg
62138-05	MTB3-OZ25-70	70	60	OZ25	M10(M10*1.5P) M12(M12*1.75P) A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)	1.0kg
62138-06	MTB4-OZ25-70	70	60	OZ25	M16(M16*2.0P) A06(5/8"-11)	1.2kg
62138-07	MTB5-OZ25-65	65	60	OZ25	M24(M24*3.0P) A07(1"-8)	2.0kg
62138-08	R8-OZ25-70	70	60	OZ25	7/16"-20	1.2kg
62138-09	BT30-OZ25-70	70	60	OZ25	M12*1.75P	0.9kg
62138-10	BT40-OZ25-80	80	60	OZ25	M16*2.0P	1.5kg
62138-11	BT50-OZ25-100	100	60	OZ25	M24*3.0P	4.3kg
62138-12	SK40-OZ25-80	80	60	OZ25	M16*2.0P	1.9kg
62138-13	SK50-OZ25-100	100	60	OZ25	M24*3.0P	4.2kg
62138-14	CAT40-OZ25-3"	3"	60	OZ25	5/8"-11	1.9kg
62138-15	CAT50-OZ25-3 1/2"	3 1/2"	60	OZ25	1"-8	4.0kg

**OZ32**

62138-20	NT30-OZ32-100	100	78	OZ32	M12(M12*1.75P) A04(1/2"-12)	2.0kg
62138-21	NT40-OZ32-85	85	78	OZ32	M16(M16*2.0P) A06(5/8"-11)	2.2kg
62138-22	NT50-OZ32-80	80	78	OZ32	M24(M24*3.0P) A07(1"-8)	4.8kg
62138-23	MTB5-OZ32-100	100	78	OZ32	M24(M24*3.0P) A07(1"-8)	3.0kg
62138-24	BT40-OZ32-90	90	78	OZ32	M16*2.0P	2.3kg
62138-25	BT50-OZ32-100	100	78	OZ32	M24*3.0P	5.0kg
62138-26	BT50-OZ32-150	150	78	OZ32	M24*3.0P	6.0kg
62138-27	SK40-OZ32-80	80	78	OZ32	M16*2.0P	2.3kg
62138-28	SK50-OZ32-100	100	78	OZ32	M24*3.0P	5.0kg
62138-29	CAT40-OZ32-3"	3"	78	OZ32	5/8"-11	2.3kg
62138-30	CAT50-OZ32-3 1/2"	3 1/2"	78	OZ32	1"-8	5.0kg



# Tooling System

**62142**

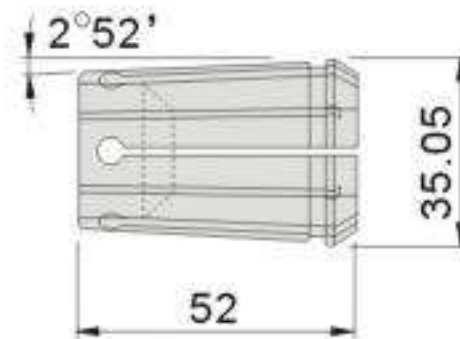
OZ25

OZ Collets



## Feature:

- ▶ HRC:47°
- ▶ COLLET CLASS:Standard
- ▶ CLAMPING RANGE: ≤0.5mm



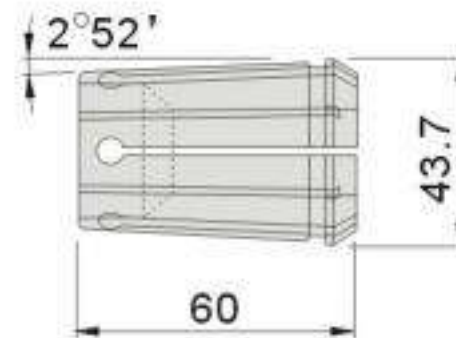
### METRIC SIZE

Order No.	Model	Collet ∅
62142-03	OZ2503	3
62142-04	OZ2504	4
62142-05	OZ2505	5
62142-06	OZ2506	6
62142-07	OZ2507	7
62142-08	OZ2508	8
62142-09	OZ2509	9
62142-10	OZ2510	10
62142-11	OZ2511	11
62142-12	OZ2512	12
62142-13	OZ2513	13
62142-14	OZ2514	14
62142-15	OZ2515	15
62142-16	OZ2516	16
62142-17	OZ2517	17
62142-18	OZ2518	18
62142-19	OZ2519	19
62142-20	OZ2520	20
62142-21	OZ2521	21
62142-22	OZ2522	22
62142-23	OZ2523	23
62142-24	OZ2524	24
62142-25	OZ2525	25




**Feature:**

- ▶ HRC: 47°
- ▶ COLLET CLASS: Standard
- ▶ CLAMPING RANGE: ≤0.5mm


**METRIC SIZE**

Order No.	Model	Collet ∅
62144-06	OZ3206	6
62144-07	OZ3207	7
62144-08	OZ3208	8
62144-09	OZ3209	9
62144-10	OZ3210	10
62144-11	OZ3211	11
62144-12	OZ3212	12
62144-13	OZ3213	13
62144-14	OZ3214	14
62144-15	OZ3215	15
62144-16	OZ3216	16
62144-17	OZ3217	17
62144-18	OZ3218	18
62144-19	OZ3219	19
62144-20	OZ3220	20
62144-21	OZ3221	21
62144-22	OZ3222	22
62144-23	OZ3223	23
62144-24	OZ3224	24
62144-25	OZ3225	25
62144-26	OZ3226	26
62144-27	OZ3227	27
62144-28	OZ3228	28
62144-29	OZ3229	29
62144-30	OZ3230	30
62144-31	OZ3231	31
62144-32	OZ3232	32



# Tooling System

## 62146

### OZ25

### Collet Chuck Kit

TOOLING SYSTEM



P.F69

### Metric

Order No.	Model	Pcs	Thread	N.W.
62146-01	NT30-OZ25	7	M12(M12*1.75P)	3.7kg
62146-02	NT30-OZ25	15	A04(1/2"-12) A05(1/2"-13)	5.2kg
62146-03	NT40-OZ25	7	M16(M16*2.0P)	4kg
62146-04	NT40-OZ25	15	A06(5/8"-11)	5.5kg
62146-05	NT50-OZ25	7	M24(M24*3.0P)	6.5kg
62146-06	NT50-OZ25	15	A07(1"-8)	8.5kg
62146-07	MTB2-OZ25	7	M10(M10*1.5P)	3.6kg
62146-08	MTB2-OZ25	15	A02(3/8"-16)	5.1kg
62146-09	MTB3-OZ25	7	M10(M10*1.5P) M12(M12*1.75P)	3.7kg
62146-10	MTB3-OZ25	15	A04(1/2"-12) A05(1/2"-13) A02(3/8"-16)	5.2kg
62146-11	MTB4-OZ25	7	M16(M16*2.0P)	3.9kg
62146-12	MTB4-OZ25	15	A06(5/8"-11)	5.4kg
62146-13	MTB5-OZ25	7	M24(M24*3.0P)	4.7kg
62146-14	MTB5-OZ25	15	A07(1"-8)	6.2kg
62146-15	R8-OZ25	7	7/16"-20	3.7kg
62146-16	R8-OZ25	15		5.2kg
62146-17	BT40-OZ25	7		4.4kg
62146-18	BT40-OZ25	15		5.9kg
62146-19	BT50-OZ25	7		7.5kg
62146-20	BT50-OZ25	15		9.5kg
62146-21	SK40-OZ25	7	DIN69871A40 M16*2.0P	4.2kg
62146-22	SK40-OZ25	15		5.7kg
62146-23	SK50-OZ25	7	DIN69871A50 M24*3.0P	7.3kg
62146-24	SK50-OZ25	15		9.3kg

#### Sizes of Metric collet set

7PCS: 6, 8, 10, 12, 16, 20, 25

15PCS: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25



**62148**
**OZ32**
**Collet Chuck Kit**

**TOOLING SYSTEM**

**P.F70**
**Metric**

Order No.	Model	Pcs	Thread	N.W.
62148-01	NT30-OZ32	8	M12(M12*1.75P)	7kg
62148-02	NT30-OZ32	15	A04(1/2"-12) A05(1/2"-13)	9kg
62148-03	NT40-OZ32	8	M16(M16*2.0P)	7.2kg
62148-04	NT40-OZ32	15	A06(5/8"-11)	9.2kg
62148-05	NT50-OZ32	8	M24(M24*3.0P)	9.8kg
62148-06	NT50-OZ32	15	A07(1"-8)	11.8kg
62148-07	MTB5-OZ32	8	M24(M24*3.0P)	8kg
62148-08	MTB5-OZ32	15	A07(1"-8)	10kg
62148-09	BT40-OZ32	8		7.4kg
62148-10	BT40-OZ32	15		9.4kg
62148-11	BT50-OZ32	8		10kg
62148-12	BT50-OZ32	15		12kg
62148-13	SK40-OZ32	8	DIN69871A40	7.2kg
62148-14	SK40-OZ32	15	M16*2.0P	9.2kg
62148-15	SK50-OZ32	8	DIN69871A50	9.8kg
62148-16	SK50-OZ32	15	M24*3.0P	11.8kg

**Sizes of Metric collet set**

8PCS:6,8,10,12,16,20,25,32

15PCS:6,8,10,12,13,14,15,16,18,20,22,25,26,30,32

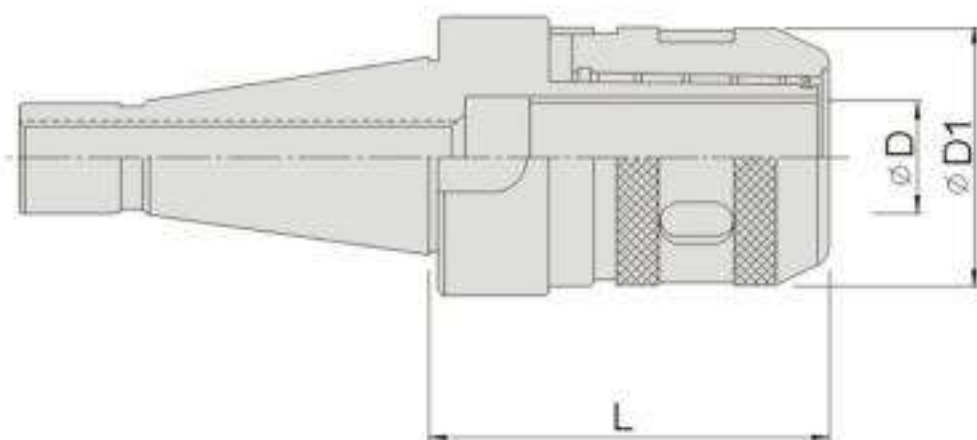


# Tooling System

**62150**

NT-MCST

Milling Collet Chuck Holder



P.F75

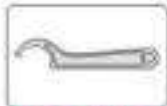
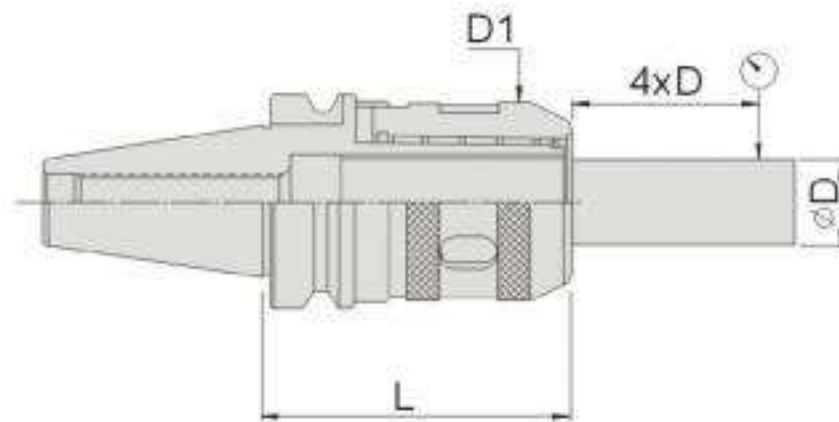


P.F75

Unit:mm

Order No.	Model	$\varnothing D$	$\varnothing D1$	L	Collet	Thread	N.W.
62150-01	NT30-MCST20-80	20	52	80	ST20	M12(M12*1.75P) A04(1/2"-12)	1.5kg
62150-02	NT30-MCST25-85	25	58	85	ST25		1.5kg
62150-03	NT40-MCST20-80	20	52	80	ST20	M16(M16*2.0P) A06(5/8"-11)	2.0kg
62150-04	NT40-MCST25-85	25	58	85	ST25		2.0kg
62150-05	NT40-MCST32-95	32	75	95	ST32		2.6kg
62150-06	NT50-MCST32-100	32	75	100	ST32	M24(M24*3.0P) A07(1"-8)	4.5kg
62150-07	NT50-MCST42-110	42	87	110	ST42		5.5kg

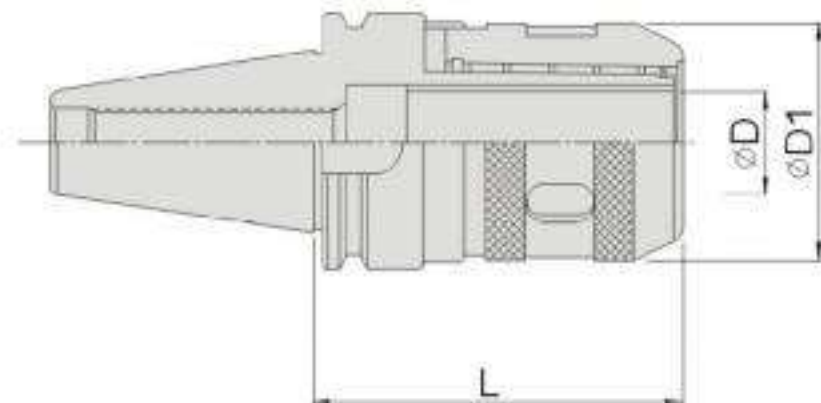


**62152**
**BT-MCST**
**Milling Collet Chuck Holder**

**P.F75**

**P.F75**

Unit:mm

Order No.	Model	øD	D1	L	Collet	N.W.
62152-01	BT30-MCST20-85	20	52	85	ST20	1.5kg
62152-02	BT40-MCST20-80	20	52	80	ST20	2kg
62152-03	BT40-MCST20-120	20	52	120	ST20	2.8kg
62152-04	BT40-MCST25-90	25	58	90	ST25	2.2kg
62152-05	BT40-MCST25-135	25	58	135	ST25	2.9kg
62152-06	BT40-MCST32-105	32	75	105	ST32	3kg
62152-07	BT40-MCST32-150	32	75	150	ST32	3.5kg
62152-08	BT50-MCST32-110	32	75	110	ST32	5.2kg
62152-09	BT50-MCST32-150	32	75	150	ST32	7kg
62152-10	BT50-MCST42-115	42	87	115	ST42	7kg
62152-11	BT50-MCST42-150	42	87	150	ST42	8.5kg

**62154**
**DAT-MCST**
**Milling Collet Chuck Holder**

**P.F75**

**P.F75**

Unit:mm

Order No.	Model	øD	øD1	L	Collet	N.W.
62154-01	DAT30-MCST20-95	20	52	95	ST20	1.5kg
62154-02	DAT40-MCST20-80	20	52	80	ST20	2kg
62154-03	DAT40-MCST25-90	25	58	90	ST25	2kg
62154-04	DAT40-MCST32-100	32	75	100	ST32	2.7kg
62154-05	DAT50-MCST32-105	32	75	105	ST32	4.5kg
62154-06	DAT50-MCST42-110	42	87	110	ST42	5.7kg



# Tooling System

## 62156 ST Collets

TOOLING SYSTEM

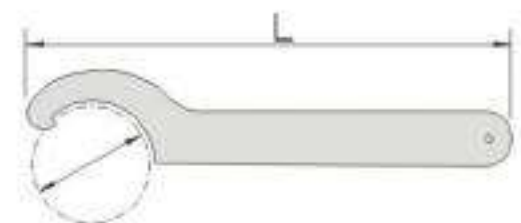


Unit:mm

Order No.	Model	Range Size(Metric)												D1	D2	L	N.W.	
				6	8	10	12	14	15	16								
62156-01	ST20			6	8	10	12	14	15	16					20	25	52	0.10kg
62156-02	ST25	4	5	6	8	10	12	14	16	18	20				25	31	60	0.18kg
62156-03	ST32	4	5	6	8	10	12	14	16	18	20	22	25		32	37	73	0.22kg
62156-04	ST42			6	8	10	12	14	16	18	20	22	25	32	42	48	80	0.35kg

Order No.	Model	Range Size(Imperial)											D1	D2	L	N.W.	
62156-05	ST20	3/16	1/4	5/16	3/8	1/2	5/8							20	25	52	0.10kg
62156-06	ST25	3/16	1/4	5/16	3/8	1/2	5/8	3/4						25	31	60	0.18kg
62156-07	ST32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"				32	37	73	0.22kg
62156-08	ST42		1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"	1-1/2"			42	48	80	0.35kg

## 62158 MCST Wrench



Unit:mm

Order No.	Model	L	D	N.W.
62158-01	MCST20	227	52	0.22kg
62158-02	MCST25	227	58	0.22kg
62158-03	MCST32	260	75	0.33kg
62158-04	MCST42	270	87	0.35kg



**62160**
**MCST**
**Milling Collet Chuck System Kit**


Refer page F74 for chuck.

Unit:mm

Order No.	Model	Collet	Thread	N.W.
62160-01	NT30-MCST20-80-6PCS	ST20 6PCS	M12(M12*1.75P)	4.0kg
62160-02	NT30-MCST25-85-7PCS	ST25 7PCS	A04(1/2"-12)	4.0kg
62160-03	NT40-MCST20-80-6PCS	ST20 6PCS	M16(M16*2.0P) A06(5/8"-11)	4.5kg
62160-04	NT40-MCST25-85-7PCS	ST25 7PCS		4.5kg
62160-05	NT40-MCST32-95-7PCS	ST32 7PCS	M24(M24*3.0P) A07(1"-8)	7.0kg
62160-06	NT50-MCST32-100-7PCS	ST32 7PCS		9.0kg
62160-07	NT50-MCST42-110-8PCS	ST42 8PCS		12.0kg
62160-08	BT30-MCST20-85-6PCS	ST20 6PCS		4.0kg
62160-09	BT40-MCST20-80-6PCS	ST20 6PCS		4.5kg
62160-10	BT40-MCST20-120-6PCS	ST20 6PCS		5.0kg
62160-11	BT40-MCST25-90-7PCS	ST25 7PCS		4.7kg
62160-12	BT40-MCST25-135-7PCS	ST25 7PCS		5.2kg
62160-13	BT40-MCST32-105-7PCS	ST32 7PCS		7.0kg
62160-14	BT50-MCST32-110-7PCS	ST32 7PCS		9.5kg
62160-15	BT50-MCST42-115-8PCS	ST42 8PCS		13.0kg
62160-16	DAT30-MCST20-95-6PCS	ST20 6PCS		4.0kg
62160-17	DAT40-MCST20-80-6PCS	ST20 6PCS		4.5kg
62160-18	DAT40-MCST25-90-7PCS	ST25 7PCS		4.8kg
62160-19	DAT40-MCST32-100-7PCS	ST32 7PCS		7.2kg
62160-20	DAT50-MCST32-105-7PCS	ST32 7PCS		9.1kg
62160-21	DAT50-MCST42-110-8PCS	ST42 8PCS		12.0kg

Sizes of Metric collet set

ST20 6PCS	4,6,8,10,12,16
ST25 7PCS	4,6,8,10,12,16,20
ST32 7PCS	6,8,10,12,16,20,25
ST42 8PCS	6,8,10,12,16,20,25,32



# Tooling System

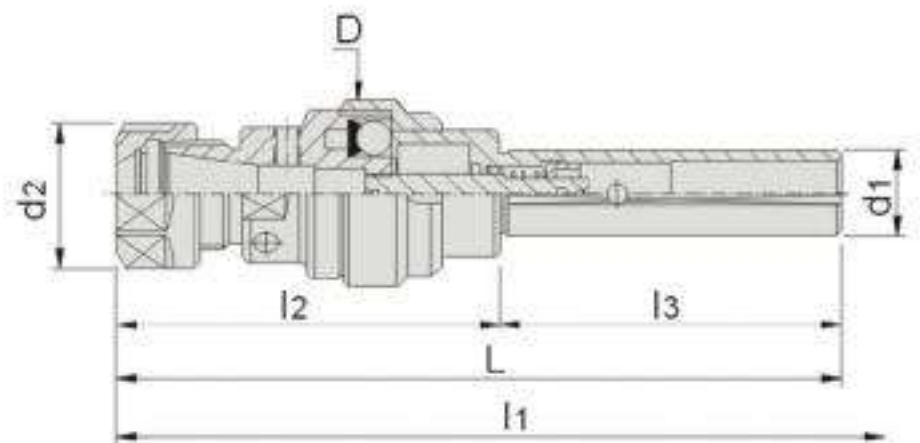
## 62162 TP Straight Shank ER Tapper(For CNC Lathe)

TOOLING SYSTEM



### Feature:

- ▶ Adopting ER rigid Tap collet.
- ▶ Made of SCM21, threads are precisely ground.
- ▶ Flexible design avoiding any tap breakage resulting turret moving.
- ▶ Good floating assembly, can be automatic to correct deviation of repeated position in workpiece.
- ▶ The harder the workpiece, the lower for the rotary speed.
- ▶ Ensure the rotary speed when apply this tapper to avoid any damage.



Unit:mm

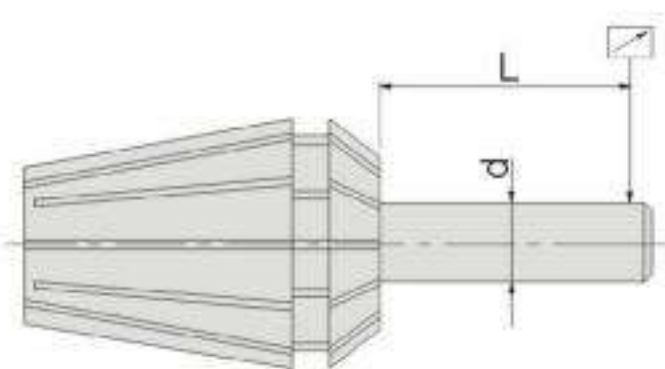
Order No.	Model	D	d1	d2	L	l1	l2	l3	COLLET	CAPACITY	N.W.
62162-01	TP-20	44	20	34	159	172	79	80	ER20	M3~M16	0.5kg
62162-02	TP-225		25								0.7kg
62162-03	TP-232		32								0.9kg
62162-04	STP-20	37	20	155	190	94.5	80	ER32	M3~M27	1.0kg	
62162-05	TP-32	56	32	50						174.5	1.6kg
62162-06	TPM-320	44	MT3	34	165	178	79	86	ER20	M3~M16	1.4kg
62162-07	TPM-420		MT4								1.6kg
62162-08	TPM-432	56	MT4	50	203.5	216.5	94.5	109	ER32	M3~M27	1.8kg



## ACCURACY STANDARD



Class 2	Economic, reliable and proved with DIN6499 Class 2 (0.015-0.020mm), Suitable for general processing application.
Class 1	Reasonable price with high accuracy, proved with DIN6499 Class 1 (0.010mm), Suitable for more accuracy job with lasting lifecycle for the collet.
Class 0	Guaranteed accuracy 0.005mm and suitable for high precision and high speed application.



$\phi d$	L	DIN 6499 Class 2	DIN 6499 Class 1	GIN Class 0
1~16	6	0.015	0.010	0.005
16~3	10	0.015	0.010	0.005
3~7	16	0.015	0.010	0.005
7~10	25	0.015	0.010	0.005
10~18	40	0.020	0.010	0.005
18~25	50	0.020	0.010	0.005
25~34	60	0.025	0.015	0.010

Each **GIN** Collet:  
 Guaranteed accuracy  
 100% full inspection.  
 No distortion when clamp at minimum capacity.  
 No breakage when drop.  
 Well-assembly with chucks.

Distinguish three classes' collets from package colour.

Class 2 (0.015mm-0.020mm)

Class 1 (0.010mm)

Class 0 (0.005mm)



# ER Collets

## 62168 ER8 ER 8 Collets

TOOLING SYSTEM



D	L	Range	Clamping interval
8.5	13	1.0~5.0	0.5

ER8(class 2)		
Order No.	Model	Range ∅
62168-201	ER080102	1.0~0.5
62168-202	ER080152	1.5~1.0
62168-203	ER080202	2.0~1.5
62168-204	ER080252	2.5~2.0
62168-205	ER080302	3.0~2.5
62168-206	ER080352	3.5~3.0
62168-207	ER080402	4.0~3.5
62168-208	ER080452	4.5~4.0
62168-209	ER080502	5.0~4.5

ER8(class 1)		
Order No.	Model	Range ∅
62168-101	ER080101	1.0~0.5
62168-102	ER080151	1.5~1.0
62168-103	ER080201	2.0~1.5
62168-104	ER080251	2.5~2.0
62168-105	ER080301	3.0~2.5
62168-106	ER080351	3.5~3.0
62168-107	ER080401	4.0~3.5
62168-108	ER080451	4.5~4.0
62168-109	ER080501	5.0~4.5

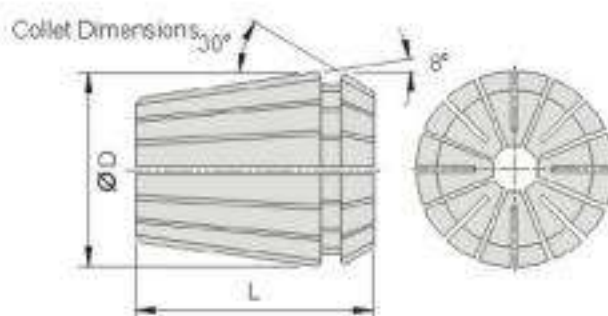
## 62169 ER8 ER 8 Collets Sets ( ∅1~5mm 9pcs)



ER8 Collet set (Class 2)		
Order No.	Model	Content
62169-02	ER08SET2	ER 8 Collet (Class 2) x 9pcs, ∅1 ~∅5mm, packed with plastic box.

ER8 Collet set (Class 1)		
Order No.	Model	Content
62169-01	ER08SET1	ER 8 Collet (Class 1) x 9pcs, ∅1 ~∅5mm, packed with plastic box.



**62170**
**ER11**
**ER 11 Collets**


D	L	Range	Clamping interval
11.5	18	1.0~7.0	0.5

ER11(class 2)		
Order No.	Model	Range ∅
62170-201	ER110102	1.0~0.5
62170-202	ER110152	1.5~1.0
62170-203	ER110202	2.0~1.5
62170-204	ER110252	2.5~2.0
62170-205	ER110302	3.0~2.5
62170-206	ER110352	3.5~3.0
62170-207	ER110402	4.0~3.5
62170-208	ER110452	4.5~4.0
62170-209	ER110502	5.0~4.5
62170-210	ER110552	5.5~5.0
62170-211	ER110602	6.0~5.5
62170-212	ER110652	6.5~6.0
62170-213	ER110702	7.0~6.5

ER11(class 1)		
Order No.	Model	Range ∅
62170-101	ER110101	1.0~0.5
62170-102	ER110151	1.5~1.0
62170-103	ER110201	2.0~1.5
62170-104	ER110251	2.5~2.0
62170-105	ER110301	3.0~2.5
62170-106	ER110351	3.5~3.0
62170-107	ER110401	4.0~3.5
62170-108	ER110451	4.5~4.0
62170-109	ER110501	5.0~4.5
62170-110	ER110551	5.5~5.0
62170-111	ER110601	6.0~5.5
62170-112	ER110651	6.5~6.0
62170-113	ER110701	7.0~6.5

ER11(class 0)		
Order No.	Model	Range ∅
62170-001	ER110100	1.0~0.5
62170-002	ER110150	1.5~1.0
62170-003	ER110200	2.0~1.5
62170-004	ER110250	2.5~2.0
62170-005	ER110300	3.0~2.5
62170-006	ER110350	3.5~3.0
62170-007	ER110400	4.0~3.5
62170-008	ER110450	4.5~4.0
62170-009	ER110500	5.0~4.5
62170-010	ER110550	5.5~5.0
62170-011	ER110600	6.0~5.5
62170-012	ER110650	6.5~6.0
62170-013	ER110700	7.0~6.5

**62171**
**ER11**
**ER 11 Collets Sets (∅1~7mm 13pcs)**


ER11 Collet set (Class 2)		
Order No.	Model	Content
62171-02	ER11SET2	ER 11 Collet (Class 2) x 13pcs, ∅1 ~∅7mm, packed with plastic box.

ER11 Collet set (Class 1)		
Order No.	Model	Content
62171-01	ER11SET1	ER 11 Collet (Class 1) x 13pcs, ∅1 ~∅7mm, packed with plastic box.

ER11 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62171-00	ER11SET0	ER 11 Collet (Class 0) x 13pcs, ∅1 ~∅7mm, packed with plastic box.

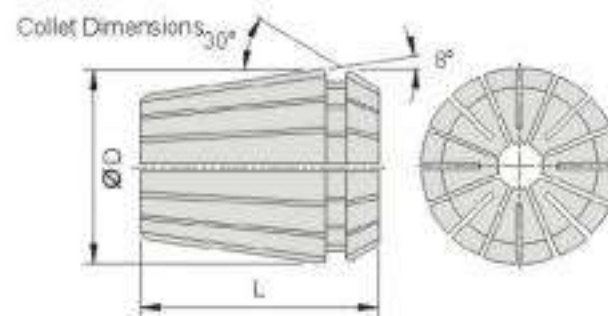


# ER Collets

**62172**

ER16

ER 16 Collets



D	L	Range	Clamping interval
17	27.5	1.0~10.0	1.0

ER16(class 2)		
Order No.	Model	Range ∅
62172-201	ER160102	1.0~0.5
62172-202	ER160152	1.5~1.0
62172-203	ER160202	2.0~1.0
62172-204	ER160302	3.0~2.0
62172-205	ER160402	4.0~3.0
62172-206	ER160502	5.0~4.0
62172-207	ER160602	6.0~5.0
62172-208	ER160702	7.0~6.0
62172-209	ER160802	8.0~7.0
62172-210	ER160902	9.0~8.0
62172-211	ER161002	10.0~9.0

ER16(class 1)		
Order No.	Model	Range ∅
62172-101	ER160101	1.0~0.5
62172-102	ER160151	1.5~1.0
62172-103	ER160201	2.0~1.0
62172-104	ER160301	3.0~2.0
62172-105	ER160401	4.0~3.0
62172-106	ER160501	5.0~4.0
62172-107	ER160601	6.0~5.0
62172-108	ER160701	7.0~6.0
62172-109	ER160801	8.0~7.0
62172-110	ER160901	9.0~8.0
62172-111	ER161001	10.0~9.0

ER16(class 0)(0.005mm)		
Order No.	Model	Range ∅
62172-001	ER160100	1.0~0.5
62172-002	ER160150	1.5~1.0
62172-003	ER160200	2.0~1.0
62172-004	ER160300	3.0~2.0
62172-005	ER160400	4.0~3.0
62172-006	ER160500	5.0~4.0
62172-007	ER160600	6.0~5.0
62172-008	ER160700	7.0~6.0
62172-009	ER160800	8.0~7.0
62172-010	ER160900	9.0~8.0
62172-011	ER161000	10.0~9.0

**62173**

ER16

ER 16 Collets Sets (∅1~10mm 10pcs)



Er16 Collet set (Class 2)		
Order No.	Model	Content
62173-02	ER16SET2	ER 16 Collet (Class 2) x 10pcs, ∅1 ~ ∅10mm, packed with plastic box.

ER16 Collet set (Class 1)		
Order No.	Model	Content
62173-01	ER16SET1	ER 16 Collet (Class 1) x 10pcs, ∅1 ~ ∅10mm, packed with plastic box.

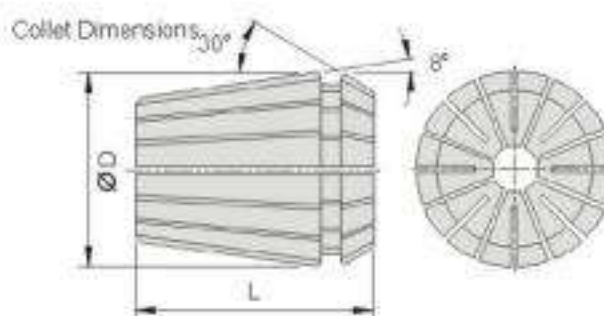
ER16 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62173-00	ER16SET0	ER 16 Collet (Class 0) x 10pcs, ∅1 ~ ∅10mm, packed with plastic box.



# 62174

ER20

ER 20 Collets



TOOLING SYSTEM

D	L	Range	Clamping interval
21	31.5	2.0~13.0	1.0

ER20(class 2)		
Order No.	Model	Range ∅
62174-203	ER200202	2.0~1.0
62174-204	ER200302	3.0~2.0
62174-205	ER200402	4.0~3.0
62174-206	ER200502	5.0~4.0
62174-207	ER200602	6.0~5.0
62174-208	ER200702	7.0~6.0
62174-209	ER200802	8.0~7.0
62174-210	ER200902	9.0~8.0
62174-211	ER201002	10.0~9.0
62174-212	ER201102	11.0~10.0
62174-213	ER201202	12.0~11.0
62174-214	ER201302	13.0~12.0

ER20(class 1)		
Order No.	Model	Range ∅
62174-103	ER200201	2.0~1.0
62174-104	ER200301	3.0~2.0
62174-105	ER200401	4.0~3.0
62174-106	ER200501	5.0~4.0
62174-107	ER200601	6.0~5.0
62174-108	ER200701	7.0~6.0
62174-109	ER200801	8.0~7.0
62174-110	ER200901	9.0~8.0
62174-111	ER201001	10.0~9.0
62174-112	ER201101	11.0~10.0
62174-113	ER201201	12.0~11.0
62174-114	ER201301	13.0~12.0

ER20(class 0)(0.005mm)		
Order No.	Model	Range ∅
62174-003	ER200200	2.0~1.0
62174-004	ER200300	3.0~2.0
62174-005	ER200400	4.0~3.0
62174-006	ER200500	5.0~4.0
62174-007	ER200600	6.0~5.0
62174-008	ER200700	7.0~6.0
62174-009	ER200800	8.0~7.0
62174-010	ER200900	9.0~8.0
62174-011	ER201000	10.0~9.0
62174-012	ER201100	11.0~10.0
62174-013	ER201200	12.0~11.0
62174-014	ER201300	13.0~12.0

# 62175

ER20

ER 20 Collets Sets (∅2~13mm 12pcs)



ER20 Collet set (Class 2)		
Order No.	Model	Content
62175-02	ER20SET2	ER 20 Collet (Class 2) x 12pcs, ∅2 ~ ∅13mm, packed with plastic box.

ER20 Collet set (Class 1)		
Order No.	Model	Content
62175-01	ER20SET1	ER 20 Collet (Class 1) x 12pcs, ∅2 ~ ∅13mm, packed with plastic box.

ER20 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62175-00	ER20SET0	ER 20 Collet (Class 0) x 12pcs, ∅2 ~ ∅13mm, packed with plastic box.

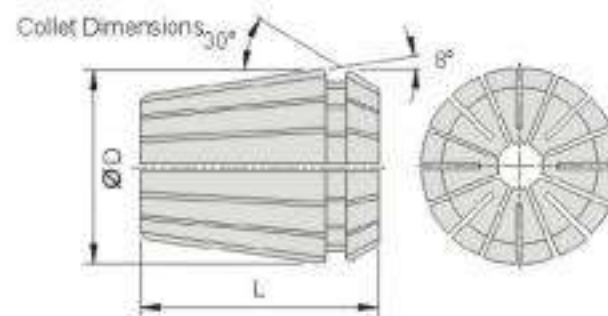


# ER Collets

**62176**

ER25

ER 25 Collets



D	L	Range	Clamping interval
26	34	2.0~16.0	1.0

ER25(class 2)		
Order No.	Model	Range ∅
62176-203	ER250202	2.0~1.0
62176-204	ER250302	3.0~2.0
62176-205	ER250402	4.0~3.0
62176-206	ER250502	5.0~4.0
62176-207	ER250602	6.0~5.0
62176-208	ER250702	7.0~6.0
62176-209	ER250802	8.0~7.0
62176-210	ER250902	9.0~8.0
62176-211	ER251002	10.0~9.0
62176-212	ER251102	11.0~10.0
62176-213	ER251202	12.0~11.0
62176-214	ER251302	13.0~12.0
62176-215	ER251402	14.0~13.0
62176-216	ER251502	15.0~14.0
62176-217	ER251602	16.0~15.0

ER25(class 1)		
Order No.	Model	Range ∅
62176-103	ER250201	2.0~1.0
62176-104	ER250301	3.0~2.0
62176-105	ER250401	4.0~3.0
62176-106	ER250501	5.0~4.0
62176-107	ER250601	6.0~5.0
62176-108	ER250701	7.0~6.0
62176-109	ER250801	8.0~7.0
62176-110	ER250901	9.0~8.0
62176-111	ER251001	10.0~9.0
62176-112	ER251101	11.0~10.0
62176-113	ER251201	12.0~11.0
62176-114	ER251301	13.0~12.0
62176-115	ER251401	14.0~13.0
62176-116	ER251501	15.0~14.0
62176-117	ER251601	16.0~15.0

ER25(class 0)(0.005mm)		
Order No.	Model	Range ∅
62176-003	ER250200	2.0~1.0
62176-004	ER250300	3.0~2.0
62176-005	ER250400	4.0~3.0
62176-006	ER250500	5.0~4.0
62176-007	ER250600	6.0~5.0
62176-008	ER250700	7.0~6.0
62176-009	ER250800	8.0~7.0
62176-010	ER250900	9.0~8.0
62176-011	ER251000	10.0~9.0
62176-012	ER251100	11.0~10.0
62176-013	ER251200	12.0~11.0
62176-014	ER251300	13.0~12.0
62176-015	ER251400	14.0~13.0
62176-016	ER251500	15.0~14.0
62176-017	ER251600	16.0~15.0

**62177**

ER25

ER 25 Collets Sets (∅2~16mm 15pcs)



ER25 Collet set (Class 2)		
Order No.	Model	Content
62177-02	ER25SET2	ER 25 Collet (Class 2) x 15pcs, ∅2 ~ ∅16mm, packed with plastic box.

ER25 Collet set (Class 1)		
Order No.	Model	Content
62177-01	ER25SET1	ER 25 Collet (Class 1) x 15pcs, ∅2 ~ ∅16mm, packed with plastic box.

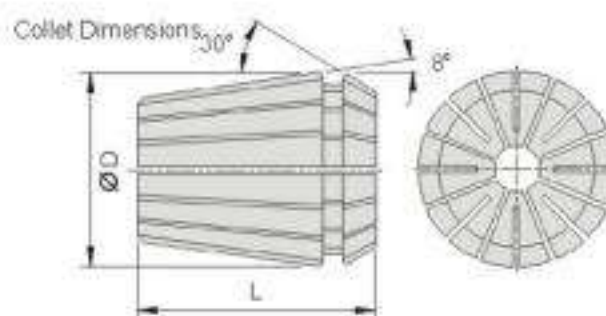
ER25 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62177-00	ER25SET0	ER 25 Collet (Class 0) x 15pcs, ∅2 ~ ∅16mm, packed with plastic box.



# 62178

ER32

## ER 32 Collets



TOOLING SYSTEM

D	L	Range	Clamping interval
33	40	3.0~20.0	1.0

ER32(class 2)		
Order No.	Model	Range Ø
62178-202	ER320302	3.0~2.0
62178-203	ER320402	4.0~3.0
62178-204	ER320502	5.0~4.0
62178-205	ER320602	6.0~5.0
62178-206	ER320702	7.0~6.0
62178-207	ER320802	8.0~7.0
62178-208	ER320902	9.0~8.0
62178-209	ER321002	10.0~9.0
62178-210	ER321102	11.0~10.0
62178-211	ER321202	12.0~11.0
62178-212	ER321302	13.0~12.0
62178-213	ER321402	14.0~13.0
62178-214	ER321502	15.0~14.0
62178-215	ER321602	16.0~15.0
62178-216	ER321702	17.0~16.0
62178-217	ER321802	18.0~17.0
62178-218	ER321902	19.0~18.0
62178-219	ER322002	20.0~19.0

ER32(class 1)		
Order No.	Model	Range Ø
62178-102	ER320301	3.0~2.0
62178-103	ER320401	4.0~3.0
62178-104	ER320501	5.0~4.0
62178-105	ER320601	6.0~5.0
62178-106	ER320701	7.0~6.0
62178-107	ER320801	8.0~7.0
62178-108	ER320901	9.0~8.0
62178-109	ER321001	10.0~9.0
62178-110	ER321101	11.0~10.0
62178-111	ER321201	12.0~11.0
62178-112	ER321301	13.0~12.0
62178-113	ER321401	14.0~13.0
62178-114	ER321501	15.0~14.0
62178-115	ER321601	16.0~15.0
62178-116	ER321701	17.0~16.0
62178-117	ER321801	18.0~17.0
62178-118	ER321901	19.0~18.0
62178-119	ER322001	20.0~19.0

ER32(class 0)(0.005mm)		
Order No.	Model	Range Ø
62178-002	ER320300	3.0~2.0
62178-003	ER320400	4.0~3.0
62178-004	ER320500	5.0~4.0
62178-005	ER320600	6.0~5.0
62178-006	ER320700	7.0~6.0
62178-007	ER320800	8.0~7.0
62178-008	ER320900	9.0~8.0
62178-009	ER321000	10.0~9.0
62178-010	ER321100	11.0~10.0
62178-011	ER321200	12.0~11.0
62178-012	ER321300	13.0~12.0
62178-013	ER321400	14.0~13.0
62178-014	ER321500	15.0~14.0
62178-015	ER321600	16.0~15.0
62178-016	ER321700	17.0~16.0
62178-017	ER321800	18.0~17.0
62178-018	ER321900	19.0~18.0
62178-019	ER322000	20.0~19.0

# 62179

ER32

## ER 32 Collets Sets (Ø3~20mm 18pcs)



ER32 Collet set (Class 2)		
Order No.	Model	Content
62179-02	ER32SET2	ER 32 Collet (Class 2) x 18pcs, Ø3 ~Ø20mm, packed with plastic box.

ER32 Collet set (Class 1)		
Order No.	Model	Content
62179-01	ER32SET1	ER 32 Collet (Class 1) x 18pcs, Ø3 ~Ø20mm, packed with plastic box.

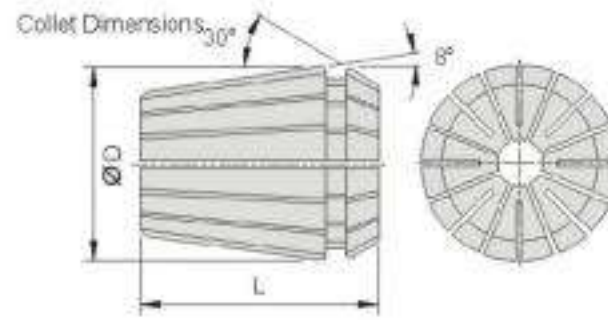
  

ER32 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62179-00	ER32SET0	ER 32 Collet (Class 0) x 18pcs, Ø3 ~Ø20mm, packed with plastic box.



# ER Collets

## 62180 ER40 ER 40 Collets



TOOLING SYSTEM

D	L	Range	Clamping interval
41	46	4.0~26.0	1.0

ER40(class 2)		
Order No.	Model	Range ∅
62180-202	ER400402	4.0~3.0
62180-203	ER400502	5.0~4.0
62180-204	ER400602	6.0~5.0
62180-205	ER400702	7.0~6.0
62180-206	ER400802	8.0~7.0
62180-207	ER400902	9.0~8.0
62180-208	ER401002	10.0~9.0
62180-209	ER401102	11.0~10.0
62180-210	ER401202	12.0~11.0
62180-211	ER401302	13.0~12.0
62180-212	ER401402	14.0~13.0
62180-213	ER401502	15.0~14.0
62180-214	ER401602	16.0~15.0
62180-215	ER401702	17.0~16.0
62180-216	ER401802	18.0~17.0
62180-217	ER401902	19.0~18.0
62180-218	ER402002	20.0~19.0
62180-219	ER402102	21.0~20.0
62180-220	ER402202	22.0~21.0
62180-221	ER402302	23.0~22.0
62180-222	ER402402	24.0~23.0
62180-223	ER402502	25.0~24.0
62180-224	ER402602	26.0~25.0

ER40(class 1)		
Order No.	Model	Range ∅
62180-102	ER400401	4.0~3.0
62180-103	ER400501	5.0~4.0
62180-104	ER400601	6.0~5.0
62180-105	ER400701	7.0~6.0
62180-106	ER400801	8.0~7.0
62180-107	ER400901	9.0~8.0
62180-108	ER401001	10.0~9.0
62180-109	ER401101	11.0~10.0
62180-110	ER401201	12.0~11.0
62180-111	ER401301	13.0~12.0
62180-112	ER401401	14.0~13.0
62180-113	ER401501	15.0~14.0
62180-114	ER401601	16.0~15.0
62180-115	ER401701	17.0~16.0
62180-116	ER401801	18.0~17.0
62180-117	ER401901	19.0~18.0
62180-118	ER402001	20.0~19.0
62180-119	ER402101	21.0~20.0
62180-120	ER402201	22.0~21.0
62180-121	ER402301	23.0~22.0
62180-122	ER402401	24.0~23.0
62180-123	ER402501	25.0~24.0
62180-124	ER402601	26.0~25.0

ER40(class 0)(0.005mm)		
Order No.	Model	Range ∅
62180-002	ER400400	4.0~3.0
62180-003	ER400500	5.0~4.0
62180-004	ER400600	6.0~5.0
62180-005	ER400700	7.0~6.0
62180-006	ER400800	8.0~7.0
62180-007	ER400900	9.0~8.0
62180-008	ER401000	10.0~9.0
62180-009	ER401100	11.0~10.0
62180-010	ER401200	12.0~11.0
62180-011	ER401300	13.0~12.0
62180-012	ER401400	14.0~13.0
62180-013	ER401500	15.0~14.0
62180-014	ER401600	16.0~15.0
62180-015	ER401700	17.0~16.0
62180-016	ER401800	18.0~17.0
62180-017	ER401900	19.0~18.0
62180-018	ER402000	20.0~19.0
62180-019	ER402100	21.0~20.0
62180-020	ER402200	22.0~21.0
62180-021	ER402300	23.0~22.0
62180-022	ER402400	24.0~23.0
62180-023	ER402500	25.0~24.0
62180-024	ER402600	26.0~25.0

## 62181 ER40 ER 40 Collets Sets (∅4~26mm 23pcs)



ER40 Collet set (Class 2)		
Order No.	Model	Content
62181-02	ER40SET2	ER 40 Collet (Class 2) x 23pcs, ∅4 ~ ∅26mm, packed with plastic box.

ER40 Collet set (Class 1)		
Order No.	Model	Content
62181-01	ER40SET1	ER 40 Collet (Class 1) x 23pcs, ∅4 ~ ∅26mm, packed with plastic box.

ER40 Collet set (Class 0)(0.005mm)		
Order No.	Model	Content
62181-00	ER40SET0	ER 40 Collet (Class 0) x 23pcs, ∅4 ~ ∅26mm, packed with plastic box.



**62182**
**ER50**
**ER 50 Collets**


D	L	Range	Clamping interval
52	60	12.0~34.0	2.0

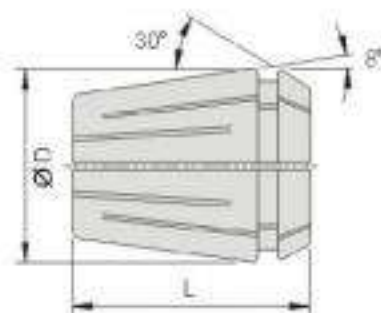
ER50			
Order No.	Model	Range	$\varnothing$
62182-201	ER501202	12.0~10.0	
62182-202	ER501402	14.0~12.0	
62182-203	ER501602	16.0~14.0	
62182-204	ER501802	18.0~16.0	
62182-205	ER502002	20.0~18.0	
62182-206	ER502202	22.0~20.0	
62182-207	ER502402	24.0~22.0	
62182-208	ER502502	25.0~23.0	
62182-209	ER502602	26.0~24.0	
62182-210	ER502802	28.0~26.0	
62182-211	ER503002	30.0~28.0	
62182-212	ER503202	32.0~30.0	
62182-213	ER503402	34.0~32.0	

**62183**
**ER50**
**ER 50 Collets Sets ( $\varnothing$ 12~34mm 12pcs)**


ER50 Collet set		
Order No.	Model	Content
62183	ER50	ER 50 Collet x 12pcs, $\varnothing$ 12 ~ $\varnothing$ 34mm, packed with plastic box.



# ER Sealed Collets



## Feature:

- Apply to standard ER chuck with no need of special screw nut and seal accessory. Center coolant tools and please note that the clamping capability is simply 0.2mm of the dia. (Not the standard 1mm ER range)

## 62196 ER16 ER 16 Collets D=17 / L=27.5

ER 16 Range Ø
6
7
8
9
10

Class 2		
Order No.	Model	
62196-201	ERC160602	
62196-202	ERC160702	
62196-203	ERC160802	
62196-204	ERC160902	
62196-205	ERC161002	

## 62198 ER20 ER 20 Collets D=21 / L=31.5

ER 20 Range Ø
6
7
8
9
10
11
12

Class 2		
Order No.	Model	
62198-201	ERC200602	
62198-202	ERC200702	
62198-203	ERC200802	
62198-204	ERC200902	
62198-205	ERC201002	
62198-206	ERC201102	
62198-207	ERC201202	

## 62200 ER25 ER 25 Collets D=26 / L=34

ER 25 Range Ø
6
7
8
9
10
11
12
13
14
15
16

Class 2		
Order No.	Model	
62200-201	ERC250602	
62200-202	ERC250702	
62200-203	ERC250802	
62200-204	ERC250902	
62200-205	ERC251002	
62200-206	ERC251102	
62200-207	ERC251202	
62200-208	ERC251302	
62200-209	ERC251402	
62200-210	ERC251502	
62200-211	ERC251602	



**62202**
**ER32**
**ER 32 Collets**
**D=33 / L=40**

ER 32 Range ∅
6
7
8
9
10
11
12
13
14
15
16
18
20

Class 2	
Order No.	Model
62202-201	ERC320602
62202-202	ERC320702
62202-203	ERC320802
62202-204	ERC320902
62202-205	ERC321002
62202-206	ERC321102
62202-207	ERC321202
62202-208	ERC321302
62202-209	ERC321402
62202-210	ERC321502
62202-211	ERC321602
62202-212	ERC321802
62202-213	ERC322002

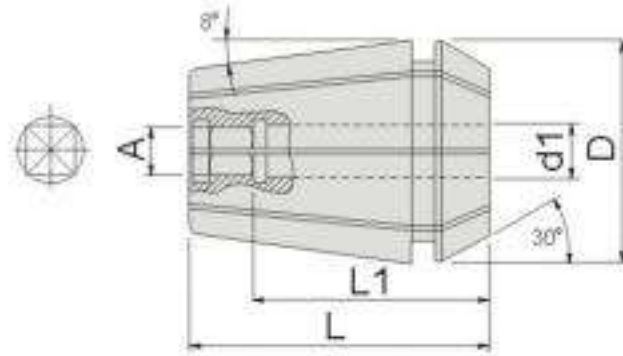
**62204**
**ER40**
**ER 40 Collets**
**D=41 / L=46**

ER 40 Range ∅
6
7
8
9
10
11
12
13
14
15
16
18
20
25

Class 2	
Order No.	Model
62204-201	ERC400602
62204-202	ERC400702
62204-203	ERC400802
62204-204	ERC400902
62204-205	ERC401002
62204-206	ERC401102
62204-207	ERC401202
62204-208	ERC401302
62204-209	ERC401402
62204-210	ERC401502
62204-211	ERC401602
62204-212	ERC401802
62204-213	ERC402002
62204-214	ERC402502



# ER Tapping Collets



## Feature:

- ▶ Suitable for tapping in machine centers and other tapping machines.

### 62206 ER16 ER 16 Collets D=16.5 / L=27.5

Order No.	Model	d1	Standard		A	L1
			DIN371	DIN376		
62206-101	ERT16045	4.5	M4	M6	3.4	18
62206-102	ERT16050	5	ISO	JIS	4	18
62206-103	ERT16055	5.5		M7	4.5	18
62206-104	ERT16060	6	M4.5-M5-M6	M8	4.9	18
62206-105	ERT16070	7	M7	M9-M10	5.5	18

### 62208 ER20 ER 20 Collets D=20.5 / L=32.5

Order No.	Model	d1	Standard		A	L1
			DIN371	DIN376		
62208-101	ERT20045	4.5	M4	M6	3.4	18
62208-102	ERT20050	5	ISO	JIS	4	18
62208-103	ERT20055	5.5		M7	4.5	18
62208-104	ERT20060	6	M4.5-M5-M6	M8	4.9	18
62208-105	ERT20070	7	M7	M9-M10	5.5	18
62208-106	ERT20090	8	M8	M11	6.2	22
62208-107	ERT20100	9	M9	M12	7	22
62208-108	ERT20110	10	M10		8	25

### 62210 ER25 ER 25 Collets D=25.5 / L=34

Order No.	Model	d1	Standard		A	L1
			DIN371	DIN376		
62210-101	ERT25045	4.5	M4	M6	3.4	18
62210-102	ERT25050	5	ISO	JIS	4	18
62210-103	ERT25055	5.5		M7	4.5	18
62210-104	ERT25060	6	M4.5-M5-M6	M8	4.9	18
62210-105	ERT25070	7	M7	M9-M10	5.5	18
62210-106	ERT25080	8	M8	M11	6.2	22
62210-107	ERT25090	9	M9	M12	7	22
62210-108	ERT25100	10	M10		8	25
62210-109	ERT25110	11		M14	9	25
62210-110	ERT25120	12	M12	M16	9	25

ER Tapping Collets are made in class 1 (0.01mm) standard.



**62212**
**ER32**
**ER 32 Collets**
**D=32.5 / L=40**

Order No.	Model	d1	Standard		A	L1
			DIN371	DIN376		
62212-101	ERT32045	4.5	M4	M6	3.4	18
62212-102	ERT32050	5	ISO	JIS	4	18
62212-103	ERT32055	5.5		M7	4.5	18
62212-104	ERT32060	6	M4.5-M5-M6	M8	4.9	18
62212-105	ERT32070	7	M7	M9-M10	5.5	18
62212-106	ERT32080	8	M8	M11	6.2	22
62212-107	ERT32090	9	M9	M12	7	22
62212-108	ERT32100	10	M10		8	25
62212-109	ERT32110	11		M14	9	25
62212-110	ERT32120	12	M12	M16	9	25
62212-111	ERT32140	14		M18	11	25
62212-112	ERT32160	16		M20	12	25

**62214**
**ER40**
**ER 40 Collets**
**D=40.5 / L=46**

Order No.	Model	d1	Standard		A	L1
			DIN371	DIN376		
62214-101	ERT40060	6	M4.5-M5-M6	M8	4.9	18
62214-102	ERT40070	7	M7	M9-M10	5.5	18
62214-103	ERT40080	8	M8	M11	6.2	22
62214-104	ERT40090	9	M9	M12	7	22
62214-105	ERT40100	10	M10		8	25
62214-106	ERT40110	11		M14	9	25
62214-107	ERT40120	12	M12	M16	9	25
62214-108	ERT40140	14		M18	11	25
62214-109	ERT40160	16		M20	12	25
62214-110	ERT40170	17		JIS	13	33
62214-111	ERT40180	18		M22-M24	14.5	33
62214-112	ERT40200	20		M27	16	33
62214-113	ERT40220	22		M30	18	33

ER Tapping Collets are made in class 1 (0.01mm) standard.

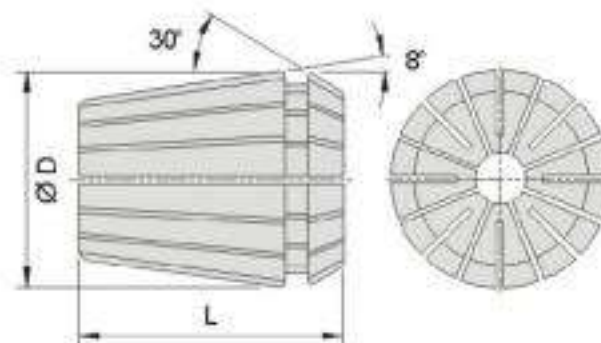


# ER Collets (inch size)

**62216-26**

**ER**

**ER Collets**



TOOLING SYSTEM

ER 11 Range Ø
1/8
3/16
1/4

ER 11 Collets	D=11.5 / L=18
Order No.	Model
62216-101	ER1103181
62216-102	ER1104761
62216-103	ER1106351

ER 32 Range Ø
1/8
3/16
1/4
5/16
3/8
7/16
1/2
9/16
5/8
3/4

ER 32 Collets	D=33 / L=40
Order No.	Model
62224-101	ER3203181
62224-102	ER3204761
62224-103	ER3206351
62224-104	ER3207941
62224-105	ER3209531
62224-106	ER3211111
62224-107	ER3212701
62224-108	ER3214291
62224-109	ER3215881
62224-110	ER3219051

ER 16 Range Ø
1/8
3/16
1/4
5/16
3/8

ER 16 Collets	D=17 / L=27.5
Order No.	Model
62218-101	ER1603181
62218-102	ER1604761
62218-103	ER1606351
62218-104	ER1607941
62218-105	ER1609531

ER 40 Range Ø
1/8
5/32
3/16
7/32
1/4
9/32
5/16
11/32
3/8
13/32
7/16
15/32
1/2
17/32
9/16
19/32
5/8
21/32
11/16
23/32
3/4
7/8
1"

ER 40 Collets	D=41 / L=46
Order No.	Model
62226-101	ER4003181
62226-102	ER4003971
62226-103	ER4004761
62226-104	ER4005561
62226-105	ER4006351
62226-106	ER4007141
62226-107	ER4007941
62226-108	ER4008731
62226-109	ER4009531
62226-110	ER4010321
62226-111	ER4011111
62226-112	ER4011911
62226-113	ER4012701
62226-114	ER4013491
62226-115	ER4014291
62226-116	ER4015081
62226-117	ER4015881
62226-118	ER4016671
62226-119	ER4017461
62226-120	ER4018261
62226-121	ER4019051
62226-122	ER4022231
62226-123	ER4025401

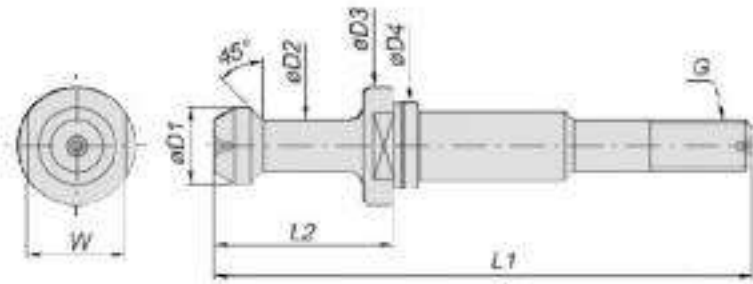
ER 20 Range Ø
1/8
3/16
1/4
5/16
3/8
7/16
1/2

ER 20 Collets	D=21 / L=31.5
Order No.	Model
62220-101	ER2003181
62220-102	ER2004761
62220-103	ER2006351
62220-104	ER2007941
62220-105	ER2009531
62220-106	ER2011111
62220-107	ER2012701

ER 25 Range Ø
1/8
3/16
1/4
5/16
3/8
7/16
1/2
9/16
5/8

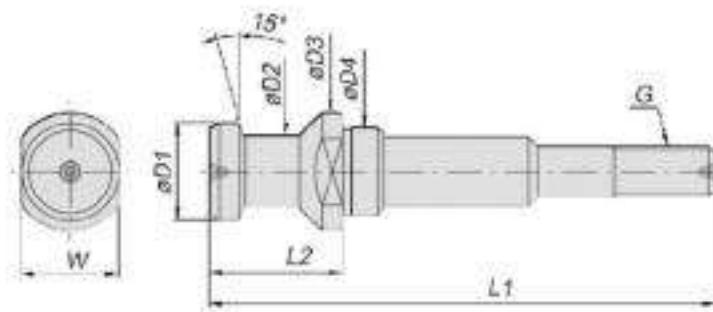
ER 25 Collets	D=26 / L=34
Order No.	Model
62222-101	ER2503181
62222-102	ER2504761
62222-103	ER2506351
62222-104	ER2507941
62222-105	ER2509531
62222-106	ER2511111
62222-107	ER2512701
62222-108	ER2514291
62222-109	ER2515881



**62228**
**MTB**
**Pull Studs**
**MAS-403**

**TOOLING SYSTEM**

Unit:mm

Order No.	Model	∅D1	∅D2	∅D3	∅D4	L1	L2	G	W	Kgf-M
62228-01	PT40T-MAS1-MTB2-G	15	10	23	17	105	35	M10	19	1.6
62228-02	PT40T-MAS1-MTB3-G	15	10	23	17	112	35	M12	19	2.3
62228-03	PT40T-MAS1-MTB4-G	15	10	23	17	120	35	M16	19	6.0
62228-04	PT50T-MAS1-MTB2-G	23	17	38	25	155	45	M10	30	1.6
62228-05	PT50T-MAS1-MTB3-G	23	17	38	25	147	45	M12	30	2.3
62228-06	PT50T-MAS1-MTB4-G	23	17	38	25	160	45	M16	30	6.0
62228-07	PT50T-MAS1-MTB5-G	23	17	38	25	148	45	M20	30	16.0

**62230**
**MTB**
**Pull Studs**
**MAS-403**


Unit:mm

Order No.	Model	∅D1	∅D2	∅D3	∅D4	L1	L2	G	W	Kgf-M
62230-01	DIN69872A-SK40-MTB2-G	19	14	23	17	99	26	M10	19	1.6
62230-02	DIN69872A-SK40-MTB3-G	19	14	23	17	106	26	M12	19	2.3
62230-03	DIN69872A-SK40-MTB4-G	19	14	23	17	114	26	M16	19	6.0
62230-04	DIN69872A-SK50-MTB2-G	28	21	36	25	147	34	M10	30	1.6
62230-05	DIN69872A-SK50-MTB3-G	28	21	36	25	139	34	M12	30	2.3
62230-06	DIN69872A-SK50-MTB4-G	28	21	36	25	152	34	M16	30	6.0
62230-07	DIN69872A-SK50-MTB5-G	28	21	36	25	140	34	M20	30	16.0



# Pull Studs

**62232**

PS

Pull Studs

MAS-403

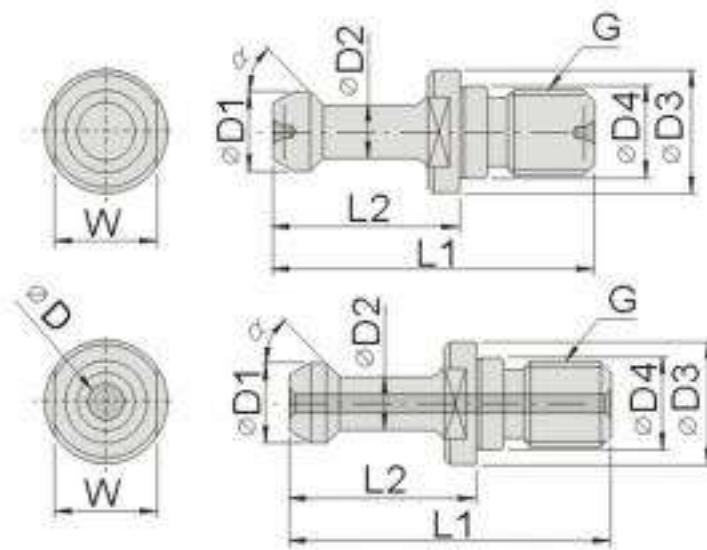


Fig.1

Fig.2

Unit:mm

Order No.	Model	Fig.	∅D1	∅D2	∅D3	∅D4	L1	L2	∠ ±15'	G	W	Kgf-M
62232-01	P30T-MAS1-G	1	11	7	16.5	12.5	43	23	45°	M12	13	2.0~2.5
62232-02	P30T-MAS2-G								60°			
62232-03	P30T-MAS3-G								90°			
62232-04	P40T-MAS1-G		15	10	23.0	17.0	60	35	45°	M16	19	6.0~8.0
62232-05	P40T-MAS2-G								60°			
62232-06	P40T-MAS3-G								90°			
62232-07	P50T-MAS1-G		23	17	38.0	25.0	85	45	45°	M24	30	20.0~25.0
62232-08	P50T-MAS2-G								60°			
62232-09	P50T-MAS3-G								90°			

Non-thread pull stub is available.

Order No.	Model	Fig.	∅D	∅D1	∅D2	∅D3	∅D4	L1	L2	∠ ±15'	G	W	Kgf-M
62232-11	P40T-MAS1-G-H	2	4	15	10	23.0	17.0	60	35	45°	M16	19	6.0~8.0
62232-12	P40T-MAS2-G-H									60°			
62232-13	P40T-MAS3-G-H									90°			
62232-14	P50T-MAS1-G-H		6	23	17	38.0	25.0	85	45	45°	M24	30	20.0~25.0
62232-15	P50T-MAS2-G-H									60°			
62232-16	P50T-MAS3-G-H									90°			

Caution: only light processing work is capable.  
Non-thread pull stub is available.

**62234**

PS

Pull Studs

DIN69872A

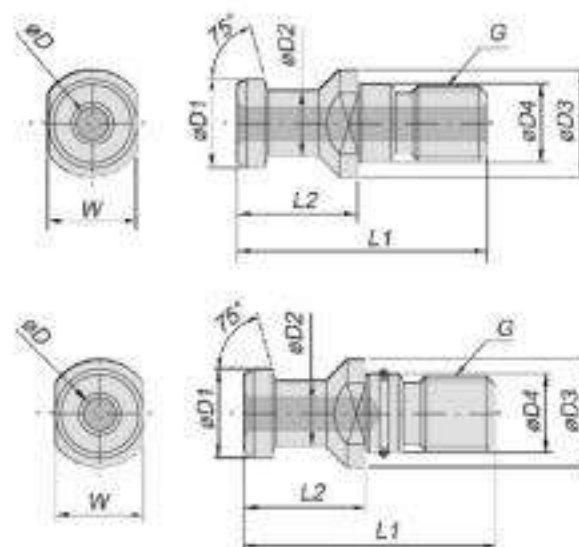


Fig.1

Fig.2

Unit:mm

Order No.	Model	Fig.	∅D	∅D1	∅D2	∅D3	∅D4	L1	L2	G	W	Kgf-M
62234-01	DIN69872A-SK30-G	1	-	13	9	17	13	44	24	M12	14	2.0~2.5
62234-02	DIN69872A-SK40-G		7.0	19	14	23	17	54	26	M16	19	6.0~8.0
62234-03	DIN69872A-SK50-G		11.5	28	21	36	25	74	34	M24	30	20.0~25.0
62234-04	DIN69872B-SK30-G	2	-	13	9	17	13	44	24	M12	14	2.0~2.5
62234-05	DIN69872B-SK40-G		7.0	19	14	23	17	54	26	M16	19	6.0~8.0
62234-06	DIN69872B-SK50-G		11.5	28	21	36	25	74	34	M24	30	20.0~25.0

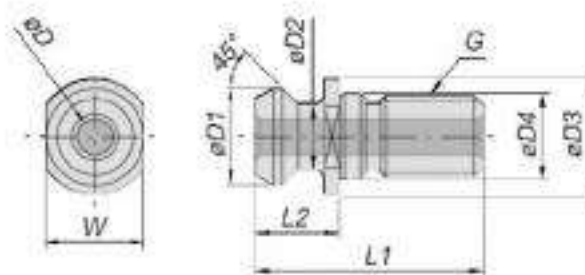


# 62236

PS

## Pull Studs

ISO7388/2B



Unit:mm

Order No.	Model	$\phi D$	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	L1	L2	G	W	Kgf-M
62236-01	ISO7388/2B-SK40-G	7.35	18.95	12.95	22.5	17	44.5	16.4	M16	19	6.0~8.0
62236-02	ISO7388/2B-SK50-G	11.50	29.1	19.6	37	25	65.5	25.4	M24	30	20.0~25.0

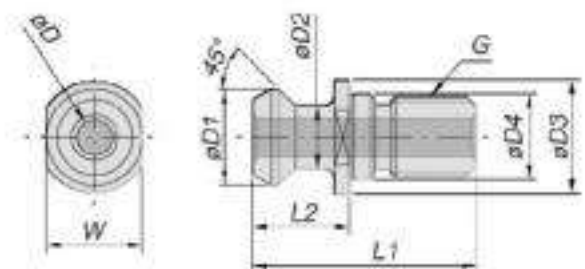
Non-thread pull stub is available.

# 62238

PS

## Pull Studs

MAZAK



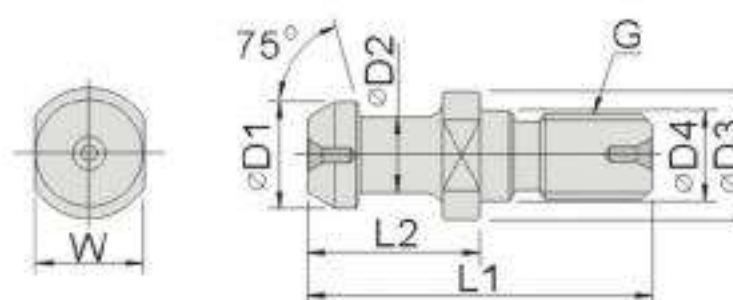
Unit:mm

Order No.	Model	$\phi D$	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	L1	L2	G	W	Kgf-M
62238-01	MAZAK-BT40-G	7	18.8	12.45	22	17	44.1	19.1	M16	19	6.0~8.0
62238-02	MAZAK-BT50-G	10	28.95	20.83	37	25	65.2	25.2	M24	30	20.0~25.0

# 62240

PS

## Pull Studs



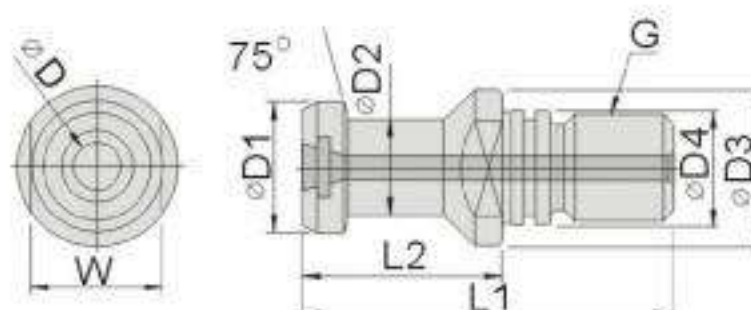
Unit:mm

Order No.	Model	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	L1	L2	G	W	Kgf-M
62240	ISO-25-G	10	7	12	9	32	16	M8	10	0.9~1.2

# 62242

PS

## Pull Studs



Unit:mm

Order No.	Model	$\phi D$	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	L1	L2	G	W	Kgf-M
62242	JIS6339B-P40BH-G	7	19	14	23	17	54	29	M16	19	6.0~8.0

TOOLING SYSTEM

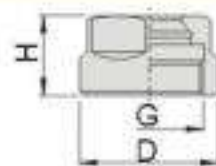


# Collet Nut

62250~58

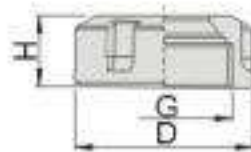
NH

Collet Nut

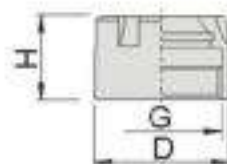


Unit:mm

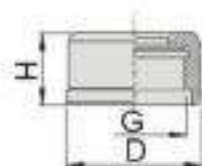
Order No.	Model	Spec.	H	D	G	Wrench No.
62250-01	NH-ER11A	ER 11-A	13	19	M14x0.75P	62260-01
62250-02	NH-ER16A	ER 16-A	18.7	28	M22x1.5P	62260-02
62250-03	NH-ER20A	ER 20-A	19	34	M25x1.5P	62260-03



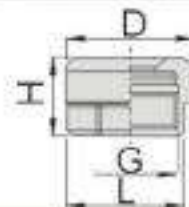
Order No.	Model	Spec.	H	D	G	Wrench No.
62252-01	NH-ER25B	ER 25-B	20	42	M32x1.5P	62262-01
62252-02	NH-ER32B	ER 32-B	24	50	M40x1.5P	62262-02
62252-03	NH-ER40B	ER 40-B	26	63	M50x1.5P	62262-03
62252-04	NH-ER50B	ER 50-B	35	78	M64x2.0P	62262-04



Order No.	Model	Spec.	H	D	G	Wrench No.
62254-01	NH-ER8M	ER 8-M	10.8	12	M10x0.75P	62264-01
62254-02	NH-ER11M	ER 11-M	12	16	M13x0.75P	62264-02
62254-03	NH-ER16M	ER 16-M	18	22	M19x1.0P	62264-03
62254-04	NH-ER20M	ER 20-M	19	28	M24x1.0P	62264-04
62254-05	NH-ER25M	ER 25-M	20	35	M30x1.0P	62264-05



Order No.	Model	Spec.	H	D	G	Wrench No.
62256-01	NHR-SK6	SK6	20	31	M21.5xP1	
62256-02	NHR-SK10	SK10	16.5	20	M15xP1.0	62268-01
62256-03	NHR-SK16	SK16	30	41	M32xP1.5	62268-02



Order No.	Model	Spec.	H	D	L	G	Wrench No.
62258-01	NHS-SK6	SK6	-	19.5	17	-	62260-01
62258-02	NHS-SK10	SK10	17.5	29	25	M21.5xP1	62260-02
62258-03	NHS-SK16	SK16	24	41	36	M32xP1.5	-
62258-04	NHS-SK20	SK20	-	48	43	-	-
62258-05	NHS-SK25	SK25	-	50	50	-	-

TOOLING SYSTEM



**62260~68**
**WH**
**Collet Wrench**


Unit:mm

Order No.	Model	Spec.	A	L
62260-01	WH-ER11A	ER11A	35	130
62260-02	WH-ER16A	ER16A	44	140
62260-03	WH-ER20A	ER20A	53	170



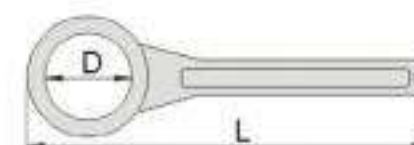
Order No.	Model	Spec.	A	L
62262-01	WH-ER25B	ER25B	65	210
62262-02	WH-ER32B	ER32B	75	250
62262-03	WH-ER40B	ER40B	90	290
62262-04	WH-ER50B	ER50B	110	350



Order No.	Model	Spec.	A	L
62264-01	WH-ER8M	ER8M	13	75
62264-02	WH-ER11M	ER11M	17	95
62264-03	WH-ER16M	ER16M	22.5	118
62264-04	WH-ER20M	ER20M	28	130
62264-05	WH-ER25M	ER25M	36.5	135



Order No.	Model	Spec.	A	L
62266-01	WH-C20	C20	-	200
62266-02	WH-C25	C25	-	230
62266-03	WH-C32	C32	-	270
62266-04	WH-C42	C42	-	340



Order No.	Model	Spec.	D	L
62268-01	WH-SK10	SK10/ER16	30	152.5
62268-02	WH-SK16	SK16	40	200
62268-03	WH-ER20	ER20	35	175
62268-04	WH-ER25	ER25	43	200
62268-05	WH-ER32	ER32	46	204

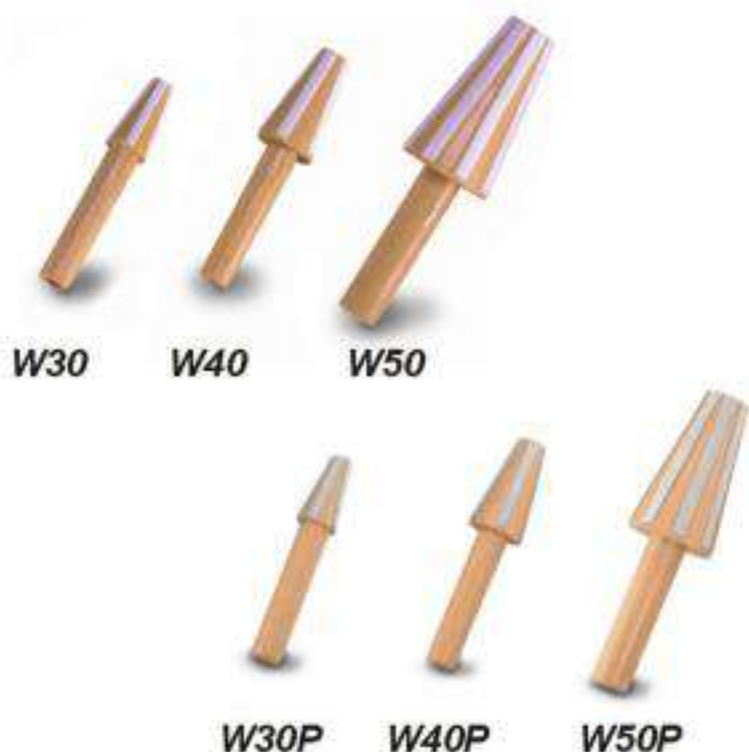


# Taper Wiper

**62270/75**

**W**

**BT type Spindle Taper Wiper**



## Feature:

- ▶ Sturdy construction with high oil and grease resistance.
- ▶ The wiper positioned at well spaced intervals to remove even large residual particles.
- ▶ Regular use can help maintain the overall precision of the machine, and prolong the of your spindle, toolholders, and cutting tools.

Unit:mm

Order No.	Model	BT Taper	Cleaning strips	N.W.	G.W.
62270-30	W-30	#30	Non-woven fabric	0.06kg	0.08kg
62270-40	W-40	#40		0.07kg	0.10kg
62270-50	W-50	#50		0.16kg	0.20kg
62275-30	W-30P	#30	Lambskin	0.06kg	0.08kg
62275-40	W-40P	#40		0.07kg	0.10kg
62275-50	W-50P	#50		0.16kg	0.20kg

**62290**

**W-HSK**

**Spindle Taper Wiper**



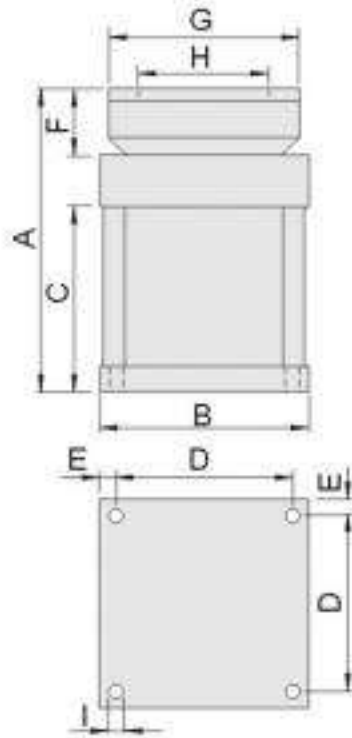
## Feature:

- ▶ The wiper is an unbeatable tool to ensure absolute cleanliness of HSK spindles.
- ▶ Regular use can help maintain the overall precision of the machine, and prolong the of your spindle, toolholders, and cutting tools.

Unit:mm

Order No.	Model	Spec	Cleaning strips	N.W.	G.W.
62290-40	W-HSK40A	HSK40	Non-woven fabric	0.08kg	0.10kg
62290-50	W-HSK50H	HSK50/HSK63F		0.08kg	0.12kg
62290-63	W-HSK63H	HSK63		0.10kg	0.13kg
62290-100	W-HSK100H	HSK100		0.50kg	0.70kg



**62315**
**LDB**
**Tool Tightening Fixture**

**Feature:**

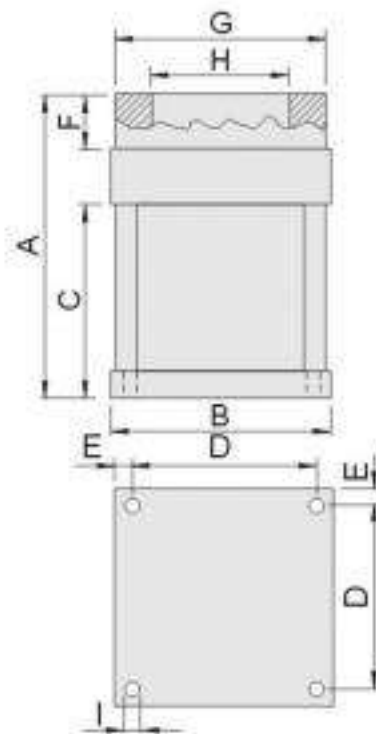
- ▶ User-friendly design, easy to do toolholder fixture.
- ▶ Lightweight cast-iron body.
- ▶ Compact design mounts easily to a worktable or tool cart.

Unit:mm

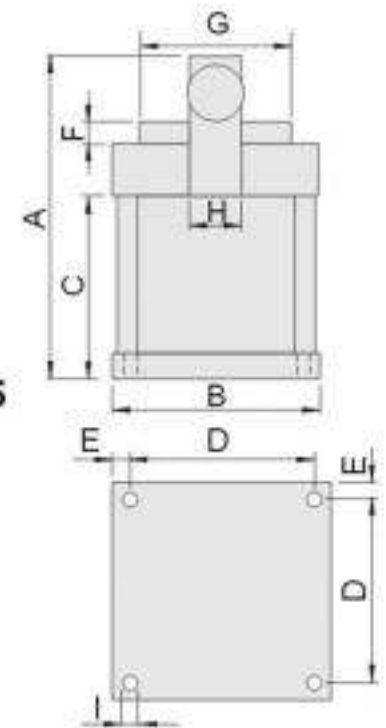
Order No.	Model	Spec	A	B	C	D	E	F	G	H	I	N.W.	G.W.
62315-50	LDB-HSK50	HSK50	139.5	100	89	84	8	25.5	77.5	50	7	2.3kg	2.5kg
62315-63	LDB-HSK63	HSK63	145.5	100	89	84	8	31.5	96.5	63	7	3.0kg	3.2kg

**62320/25**
**LDI/LDAC**
**Tool Tightening Fixture**


62320



62325



Unit:mm

Order No.	Model	A	B	C	D	E	F	G	H	I	N.W.	G.W.
62320-01	LD-HSK32I	141	100	89	84	8	27	80	32	7	2.8kg	3.0kg
62320-02	LD-HSK40I	141	100	89	84	8	27	80	40	7	2.7kg	2.9kg
62320-03	LD-HSK50I	147	100	89	84	8	33	95	50	7	2.8kg	3.0kg
62320-04	LD-HSK63I	139	100	89	84	8	25	96	63	7	2.9kg	3.1kg
62325-01	LD-HSK63AC	157	100	89	84	8	12	76.5	25	7	2.8kg	3.0kg
62325-02	LD-HSK100AC	208	125	115	101	12	12	115	25	9	6.0kg	7.0kg



# Tool Tightening Fixture

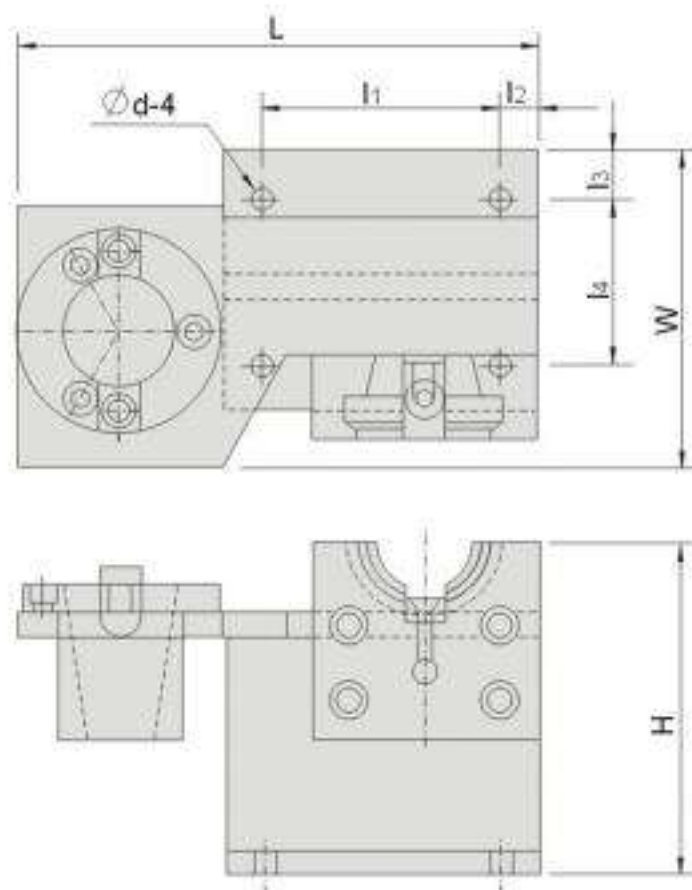
**62330**

LDA

Tool Tightening Fixture

## Feature:

- ▶ Lightweight cast-iron body.
- ▶ Compact design mounts easily to a worktable or tool cart.
- ▶ Cast aluminum vertical taper and horizontal holders.
- ▶ Long-wearing steel inserts to engage the toolholder drive slots.



Unit:mm

Order No.	Model	L	l1	l2	l3	l4	H	W	N.W.	G.W.
62330-01	LD-BT30A	210	95	10	15	67	130	100	3.6kg	3.7kg
62330-02	LD-BT40A	210	95	10	15	67	130	100	3.7kg	3.9kg
62330-03	LD-BT50A	275	113	20	24	105	200	150	11.0kg	11.4kg
62330-04	LD-DIN40A	210	95	10	15	67	130	100	3.6kg	3.8kg
62330-05	LD-DIN50A	275	113	20	24	105	200	150	10.8kg	11.2kg
62330-06	LD-CAT40A	210	95	10	15	67	130	100	3.6kg	3.8kg
62330-07	LD-CAT50A	275	113	20	24	105	200	150	10.8kg	11.2kg



**62340**
**TCP**
**Tool Tightening Fixture**
**TOOLING SYSTEM**

**Feature:**
**▶ Tool Holder is interchangeable.**

Easy assemble and dis-assemble tool holder from main body while pressing the valve on the right hand side of the device.

**▶ Tool Holder is adjustable up to 360°**

Easily adjusts tool holders for a full 360° (45° increments) by pressing the valve on the top of the device.

4 pcs of M10x40mm bolt can be fastened from the top of the mounting flange or 4 pcs of M12 bolt can be fastened from the bottom of the mounting.


**Main Body**

Order No.	Model	N.W.
62340-01	TCP-150	6kg


**Tool Holder**

Order No.	Model	N.W.
62340-02	TCP-BT30	2.3kg
62340-03	TCP-BT40	2.8kg
62340-04	TCP-BT50	4.8kg
62340-05	TCP-HSK-A-40	3.3kg
62340-06	TCP-HSK-A-63	2.3kg
62340-07	TCP-HSK-A-80	3.5kg
62340-08	TCP-HSK-A-100	3.8kg
62340-09	TCP-HSK-E-25	2.3kg
62340-10	TCP-HSK-E-32	2.5kg
62340-11	TCP-HSK-E-40	2.8kg
62340-12	TCP-HSK-E-50	3.0kg
62340-13	TCP-HSK-F-63	3.2kg

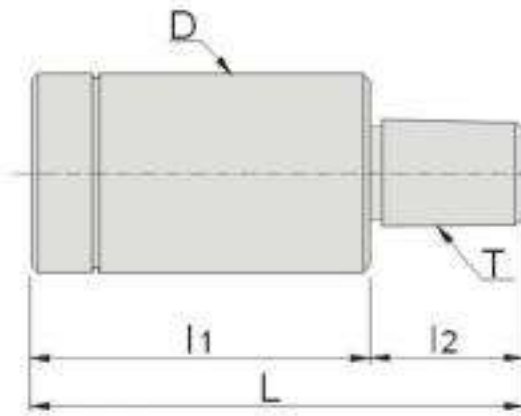


# Tooling System

**63000**

C/JT

Cylindrical Drill Chuck Arbors

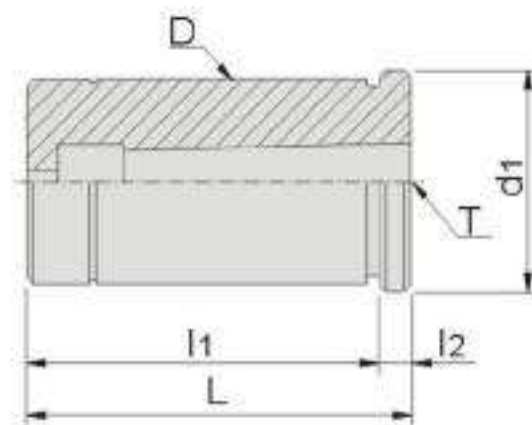


Order No.	Model	D	T	L	l1	l2
63000-01	C20xJT6	C20	JT6	80	55	25
63000-02	C32xJT3	C32	JT3	85	70	25
63000-03	C32xJT6	C32	JT6	105.95	70	35.95
63000-04	C42xJT3	C42	JT3	125	100	25
63000-05	C42xJT6	C42	JT6	135.95	100	35.95

**63010**

C/MT

Morse Taper Adapter With Straight Shank



Order No.	Model	D	T	L	l1	l2	d1
63010-01	C32xMT1	C32	MT1	61	56	5	35
63010-02	C32xMT2	C32	MT2	73	65	8	37
63010-03	C32xMT3	C32	MT3	92	72	20	37
63010-04	C42xMT1	C42	MT1	61	56	5	47
63010-05	C42xMT2	C42	MT2	74	66	8	47
63010-06	C42xMT3	C42	MT3	92	75	17	47



**63020**
**MT/JT**
**Morse Taper Drill Chuck Arbors**


Order No.	Model	T	T1
63020-01	MT1xJT0	MT1	JT0
63020-02	MT1xJT1	MT1	JT1
63020-03	MT1xJT2	MT1	JT2
63020-04	MT1xJT3	MT1	JT3
63020-05	MT1xJT4	MT1	JT4
63020-06	MT1xJT5	MT1	JT5
63020-07	MT1xJT6	MT1	JT6
63020-08	MT1xJT33	MT1	JT33
63020-09	MT2xJT0	MT2	JT0
63020-10	MT2xJT1	MT2	JT1
63020-11	MT2xJT2	MT2	JT2
63020-12	MT2xJT3	MT2	JT3
63020-13	MT2xJT4	MT2	JT4
63020-14	MT2xJT5	MT2	JT5
63020-15	MT2xJT6	MT2	JT6
63020-16	MT2xJT33	MT2	JT33
63020-17	MT3xJT1	MT3	JT1
63020-18	MT3xJT2	MT3	JT2

Order No.	Model	T	T1
63020-19	MT3xJT3	MT3	JT3
63020-20	MT3xJT4	MT3	JT4
63020-21	MT3xJT5	MT3	JT5
63020-22	MT3xJT6	MT3	JT6
63020-23	MT3xJT33	MT3	JT33
63020-24	MT4xJT2	MT4	JT2
63020-25	MT4xJT3	MT4	JT3
63020-26	MT4xJT4	MT4	JT4
63020-27	MT4xJT5	MT4	JT5
63020-28	MT4xJT6	MT4	JT6
63020-29	MT4xJT33	MT4	JT33
63020-30	MT5xJT2	MT5	JT2
63020-31	MT5xJT3	MT5	JT3
63020-32	MT5xJT4	MT5	JT4
63020-33	MT5xJT5	MT5	JT5
63020-34	MT5xJT6	MT5	JT6
63020-35	MT5xJT33	MT5	JT33

**63030**
**R8/JT**
**R8 Drill Chuck Arbors**


Order No.	Model	T	T1	T2
63030-01	R8xJT1	R8	JT1	7/16"-UNF20
63030-02	R8xJT2	R8	JT2	
63030-03	R8xJT3	R8	JT3	
63030-04	R8xJT4	R8	JT4	
63030-05	R8xJT5	R8	JT5	
63030-06	R8xJT6	R8	JT6	
63030-07	R8xJT33	R8	JT33	

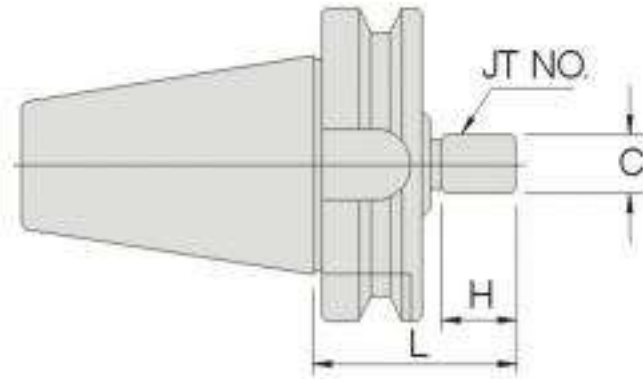


# Drill Chuck

**63040**

BT/JT

NC Drill Chuck Adaptor-Mas BT30/40/50 Shank



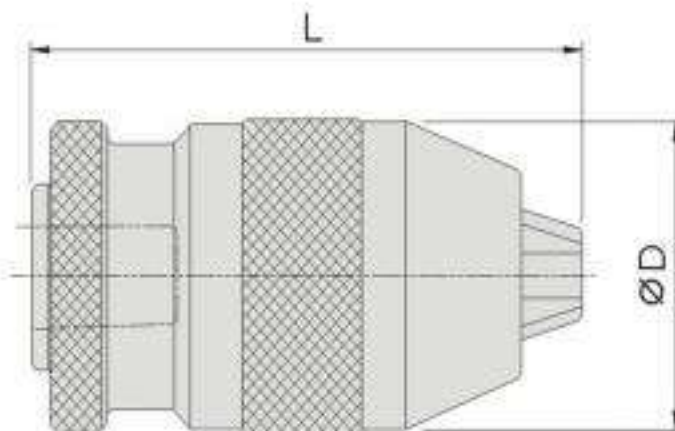
Unit:mm

Order No.	Model	Taper NO.	C	H	L	N.W.
63040-01	BT30-JT6	JT6	17.17	24	45	0.44kg
63040-02	BT40-JT6	JT6	17.17	24	45	1.16kg
63040-03	BT50-JT6	JT6	17.17	24	45	3.85kg
63040-04	BT50-JT6L	JT6	17.17	24	105	4.88kg

**63050**

APU/JT

Keyless Drill Chuck



Unit:mm

Order No.	Model	Capacity	Taper	D	L		N.W.
					open	closed	
63050-01	APU08-JT1	0-8	JT1	38	68	76	0.39kg
63050-02	APU10-JT2	0-10	JT2	43	80	92	0.61kg
63050-03	APU13-JT6	0-13	JT6	49	90	102	0.92kg
63050-04	APU16-JT6	3-16	JT6	55	97	110	1.20kg



**63070**
**MDR**
**Arbor Type Special Heavy Duty Model Drill Chuck**

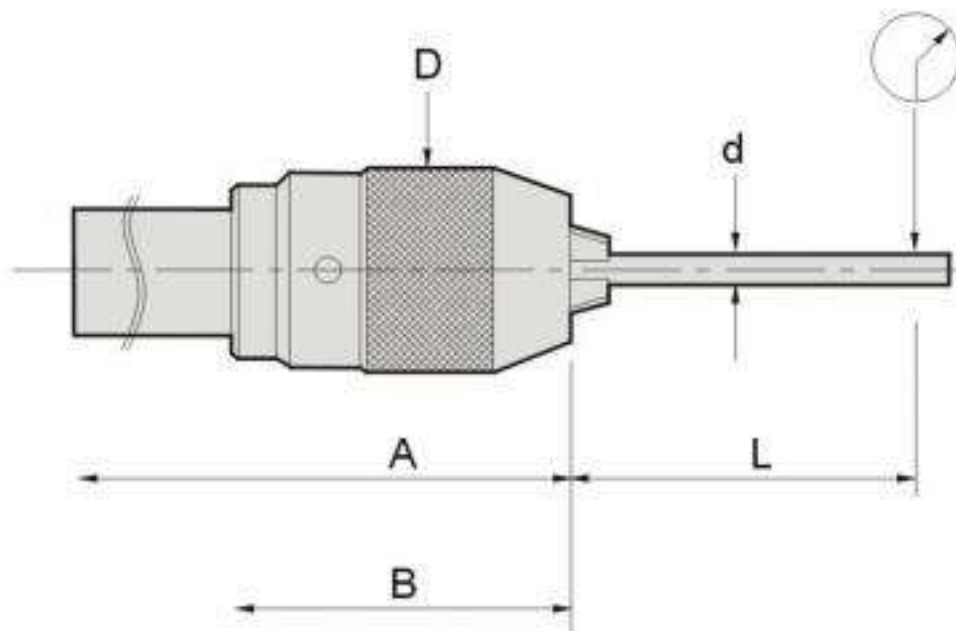
With chuck structure design, it makes easier to suitable in applying milling and overall machining center. Precision mechanism and durability ensure the endurance and accuracy.



Order No.	Model	Spec.	Clamping Range		Taper	Length			N.W.
			Metric	Inch		A	B	D	
63070-01	MT2-8S	8S	0.3-8	1/64-5/16	MT2	142	61	37	0.4kg
63070-02	MT2-10S	10S	0.3-10	1/64-3/8	MT2	151	70	43	0.7kg
63070-03	MT3-13S	13S	0.3-13	1/64-1/2	MT3	180	81	50	1.14kg
63070-04	MT2-13S	13S	0.3-13	1/64-1/2	MT2	162	81	50	1.01kg
63070-05	MT4-13S	13S	0.3-13	1/64-1/2	MT4	206	81	50	1.49kg
63070-06	MT3-16S	16S	3-16	1/8-5/8	MT3	186	85	58	1.45kg
63070-07	MT4-16S	16S	3-16	1/8-5/8	MT4	212	85	58	1.77kg

Order No.	Model	Spec.	Clamping Range		Taper	Length			N.W.
			Metric	Inch		A	B	D	
63070-08	D12-3S	3S	0.3-3	1/64-1/8	D12	88.5	38.5	24	0.14kg
63070-09	D16-6S	6S	0.3-6.5	1/64-1/4	D16	104	54	33	0.34kg
63070-10	D20-8S	8S	0.3-8	1/64-5/16	D20	121	61	37	0.51kg
63070-11	D20-13S	13S	0.3-13	1/64-1/2	D20	141	81	50	1.03kg
63070-12	D25-13S	13S	0.3-13	1/64-1/2	D25	160	81	50	1.19kg
63070-13	D32-13S	13S	0.3-13	1/64-1/2	D32	162	81	50	1.41kg
63070-14	D20-16S	16S	3-16	1/8-5/8	D20	145	85	58	1.33kg
63070-15	D25-16S	16S	3-16	1/8-5/8	D25	165	85	58	1.48kg
63070-16	D32-16S	16S	3-16	1/8-5/8	D32	167	85	58	1.70kg

Order No.	Model	Spec.	Clamping Range		Taper	Length			N.W.
			Metric	Inch		A	B	D	
63070-17	R8-13S	13S	0.3-13	1/64-1/2	R8	182	81	50	1.26kg
63070-18	R8-16S	16S	3-16	1/8-5/8	R8	188	85	58	1.53kg


**Drill Chuck Concentricity**

Unit:mm

Force	$\phi d$	L	Max. Concentricity
3S	1.5	30	0.05
	3		
6S	3	35	0.05
	4		
	6		
8S	4	35	0.05
	6	50	
	8		
10S	5	35	0.05
	6	58	
	10		
13S	6	55	0.05
	10	75	
	13		
16S	6	55	0.05
	10	80	
	16		

DRILL CHUCK



# Drill Chuck

**63080**

NT/CHU

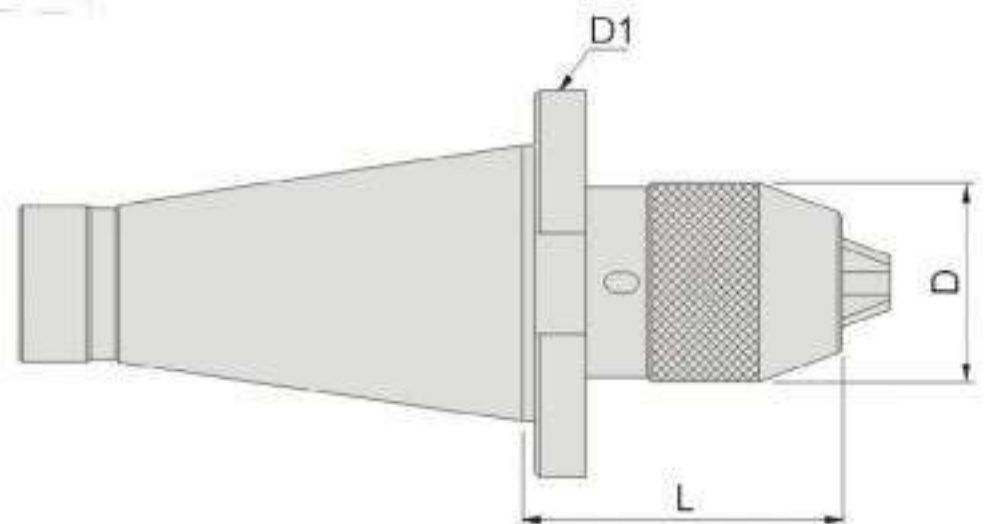
CNC Drill Chuck



## Feature:

ISO

- ▶ Suitable for applying conventional milling machine or other NT cylinder interface machines for drilling work.
- ▶ Threefold more clamping force than normal one.
- ▶ Drill head is not fell and dropped.
- ▶ Twofold precision than normal one.
- ▶ Interchangeable chuck head.



Refer page F109 for wrench.

Unit:mm

Order No.	Model	L	ØD	ØD1	Screw Spec.
63080-01	NT30xCHU08-80A	80	37	49	1/2"W12
63080-02	NT30xCHU08-80B	80	37	49	M12x1.75P
63080-03	NT30xCHU08-80C	80	37	49	1/2"UNC13
63080-04	NT30xCHU13-100A	100	50	49	1/2"W12
63080-05	NT30xCHU13-100B	100	50	49	M12x1.75P
63080-06	NT30xCHU13-100C	100	50	49	1/2"UNC13
63080-07	NT40xCHU08-80A	80	37	63	5/8"W11
63080-08	NT40xCHU08-80B	80	37	63	M16x2.0P
63080-09	NT40xCHU13-95A	95	50	63	5/8"W11
63080-10	NT40xCHU13-95B	95	50	63	M16x2.0P
63080-11	NT40xCHU16-105A	105	57	63	5/8"W11
63080-12	NT40xCHU16-105B	105	57	63	M16x2.0P
63080-13	NT50xCHU13-85A	85	50	97.5	1"W8
63080-14	NT50xCHU13-85B	85	50	97.5	M24x3.0p
63080-15	NT50xCHU16-100A	100	57	97.5	1"W8
63080-16	NT50xCHU16-100B	100	57	97.5	M24x3.0P



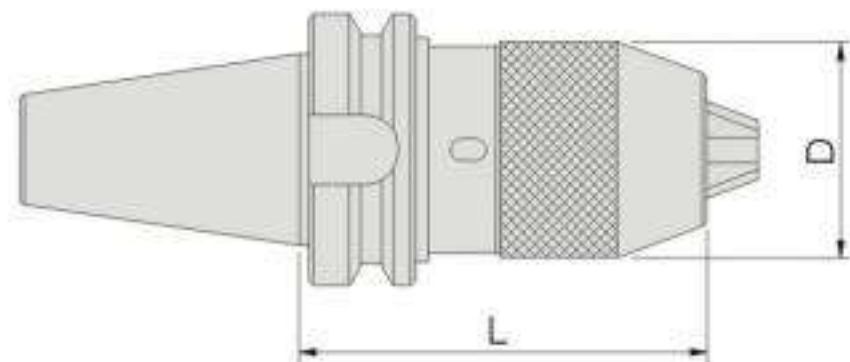
**63090** BT/CHU >> CNC Drill Chuck



DRILL CHUCK

**Feature:**

- ▶ Suitable for applying conventional milling machine or other NT cylinder interface machines for drilling work.
- ▶ Threefold more clamping force than normal one.
- ▶ Drill head is not fell and dropped.
- ▶ Twofold precision than normal one.
- ▶ Interchangeable chuck head.



Refer page F109 for wrench.

Order No.	Model	Capacity	L	ØD	N.W.
63090-01	BT30xCHU08-80	0-8	80	36	0.8kg
63090-02	BT30xCHU13-105	1-13	105	51	1.6kg
63090-03	BT40xCHU08-90	0-8	90	36	1.4kg
63090-04	BT40xCHU13-90	1-13	90	51	1.8kg
63090-05	BT40xCHU16-115	1-16	115	58	2.3kg
63090-06	BT50xCHU13-125	1-13	125	51	4.7kg
63090-07	BT50xCHU13-185	1-13	185	51	5.4kg
63090-08	BT50xCHU16-185	1-16	185	58	6.6kg



# Drill Chuck

**63100**

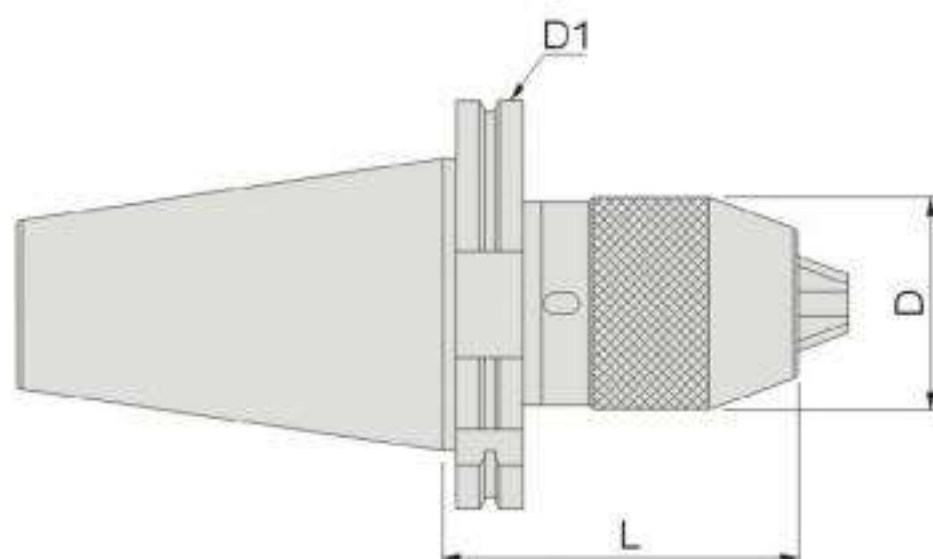
SK/CHU

CNC Drill Chuck



## Feature:

- ▶ Threefold more clamping force than normal one.
- ▶ Drill head is not fell and dropped.
- ▶ Twofold precision than normal one.
- ▶ Interchangeable chuck head.



Refer page F109 for wrench.

Unit:mm

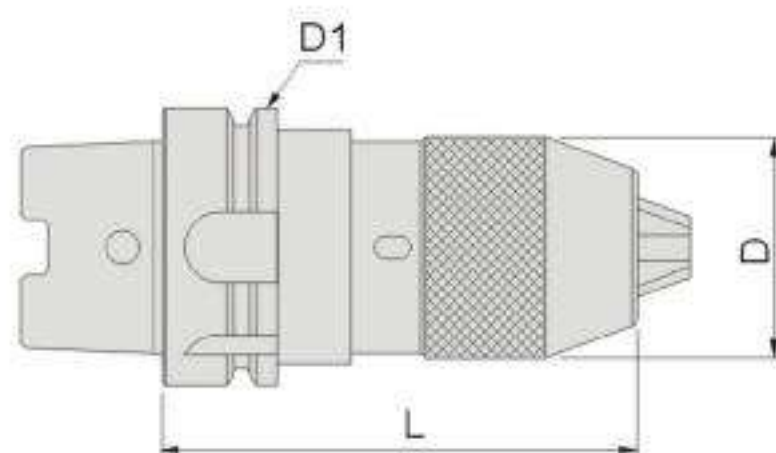
Order No.	Model	L	ØD	ØD1
63100-01	SK30xCHU8-80	80	37	50
63100-02	SK30xCHU13-100	100	50	
63100-03	SK30xCHU16-125	125	57	
63100-04	SK40xCHU8-75	75	37	63.55
63100-05	SK40xCHU13-100	100	50	
63100-06	SK40xCHU16-115	115	57	
63100-07	SK50xCHU13-100	100	50	97.5
63100-08	SK50xCHU16-105	105	57	





### Feature:

- ▶ Threefold more clamping force than normal one.
- ▶ Drill head is not fell and dropped.
- ▶ Twofold precision than normal one.
- ▶ Interchangeable chuck head.



Refer page F109 for wrench.

Unit:mm

Order No.	Model	L	ØD	ØD1
63110-01	HSK50AxCHU13-110	110	50	50
63110-02	HSK63AxCHU13-145	145	50	63
63110-03	HSK100AxCHU13-120	120	50	100