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2024

**TOOLING
SYSTEM**



2024

The Top Leader of World Toolholder Industry



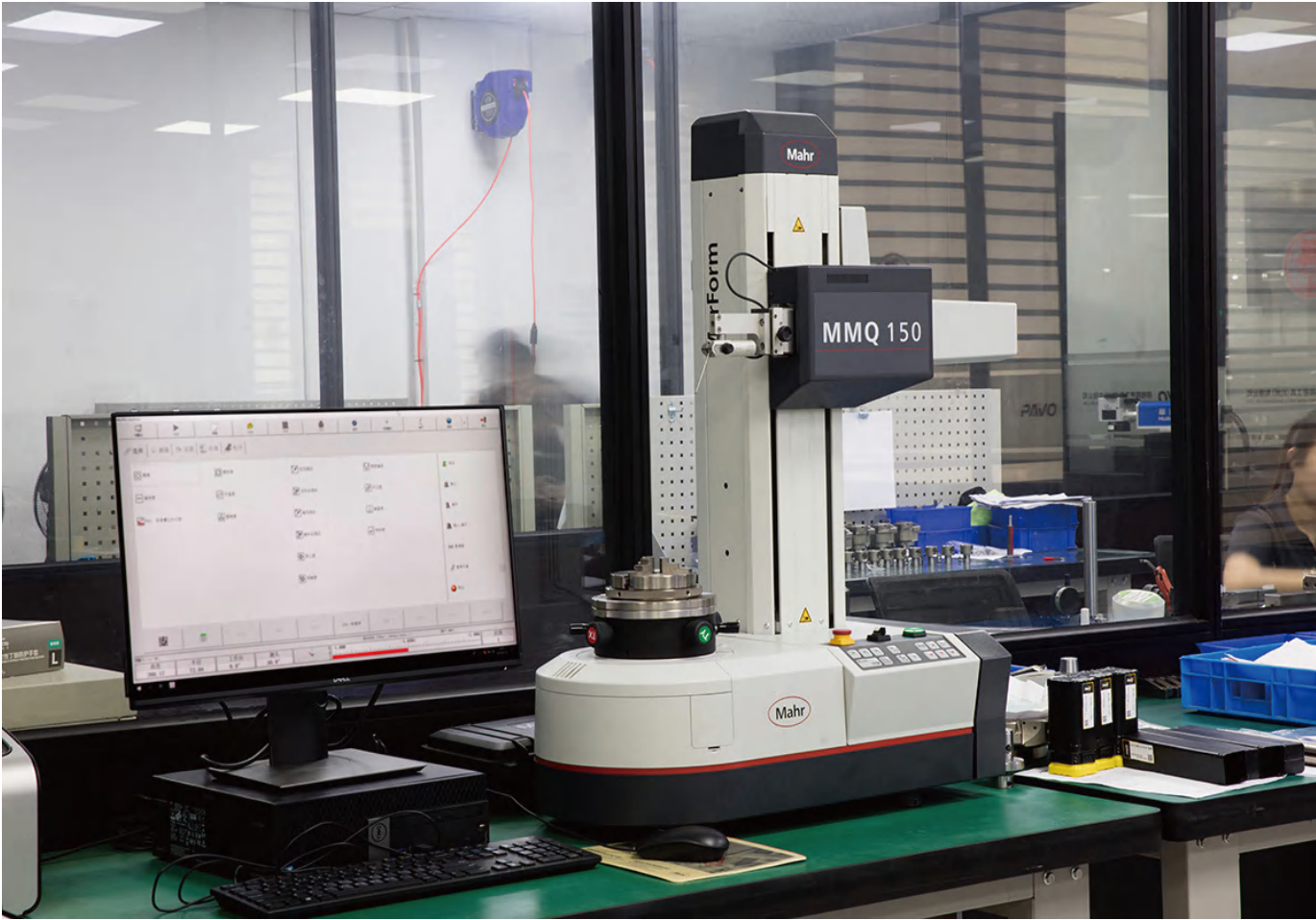
HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM • NC DRILL CHUCK • BORING SYSTEM

Manufacturing equipment

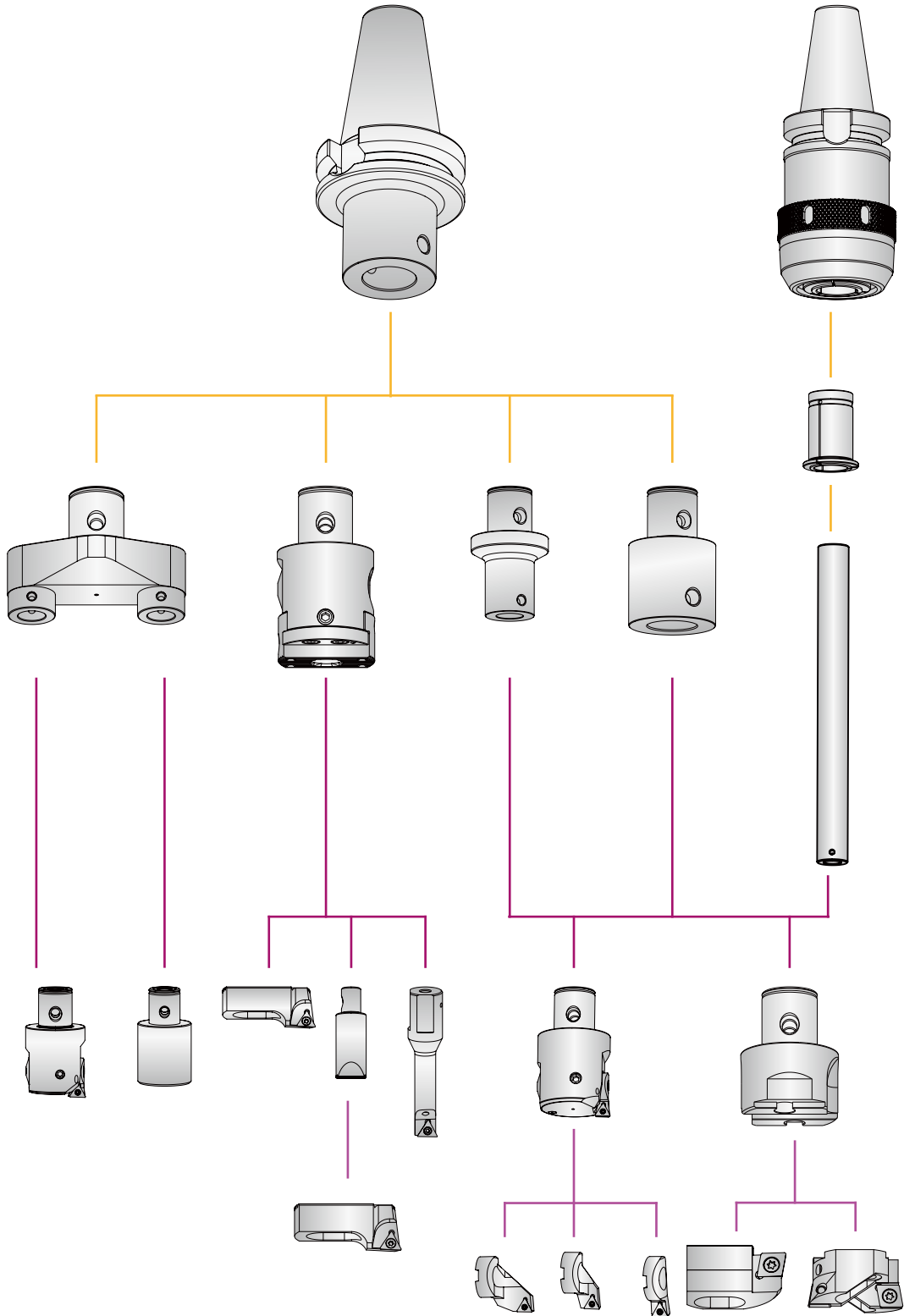
- DMG MORI
- MAZAK
- CAMPRO
- HARDINGE

Testing equipment

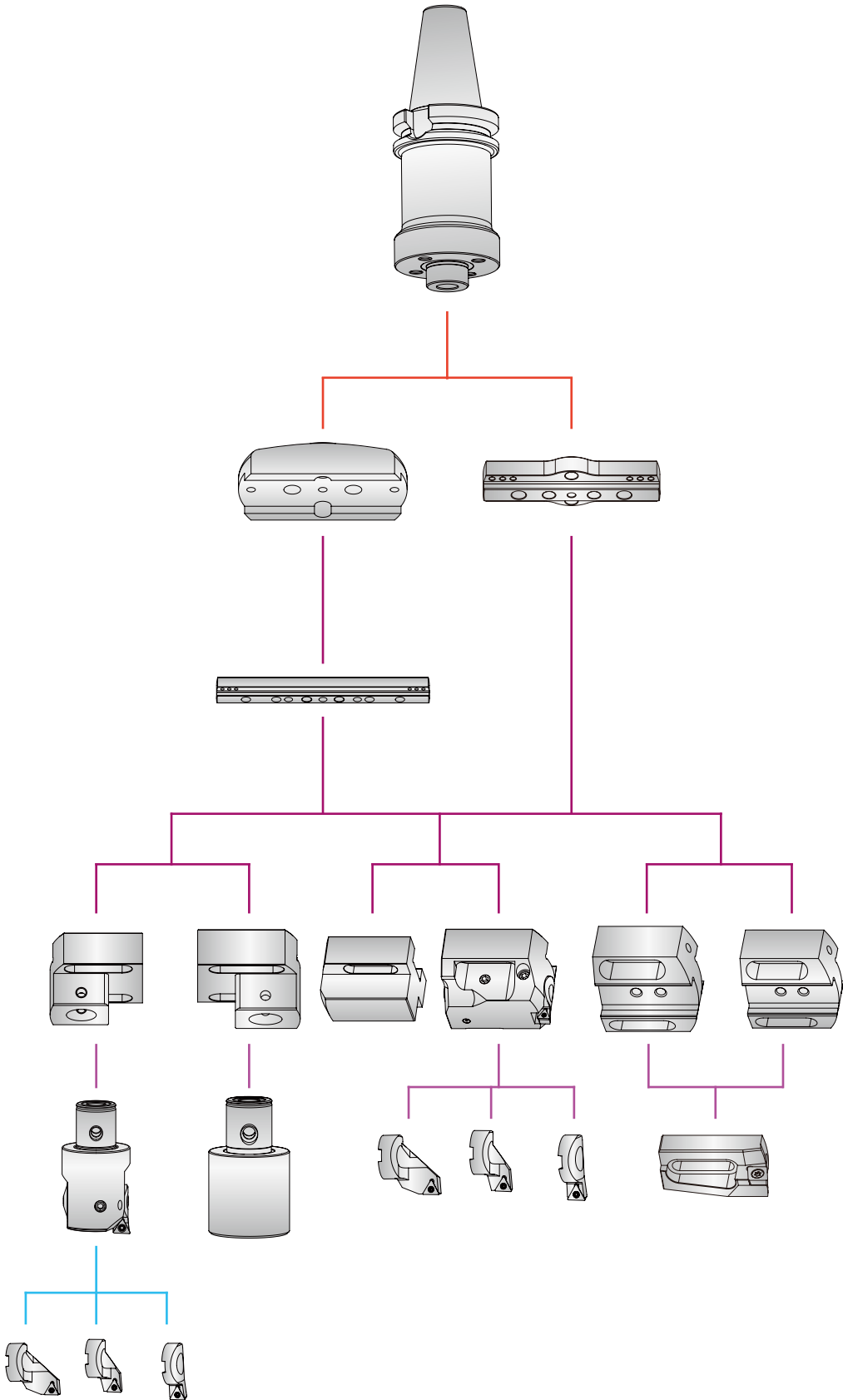
- ZOLLER
- Mahr



Boring cutter combination

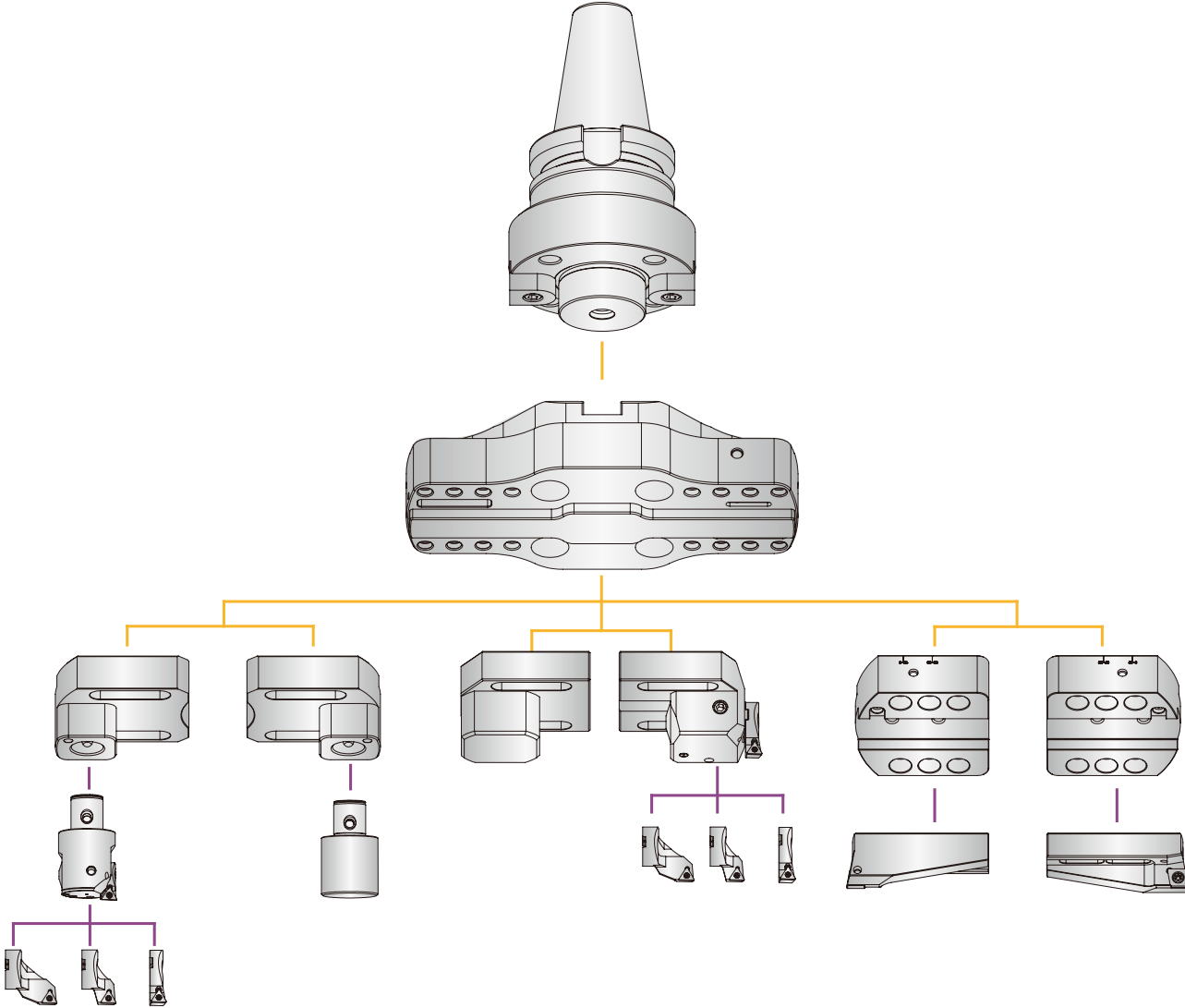


Boring cutter combination



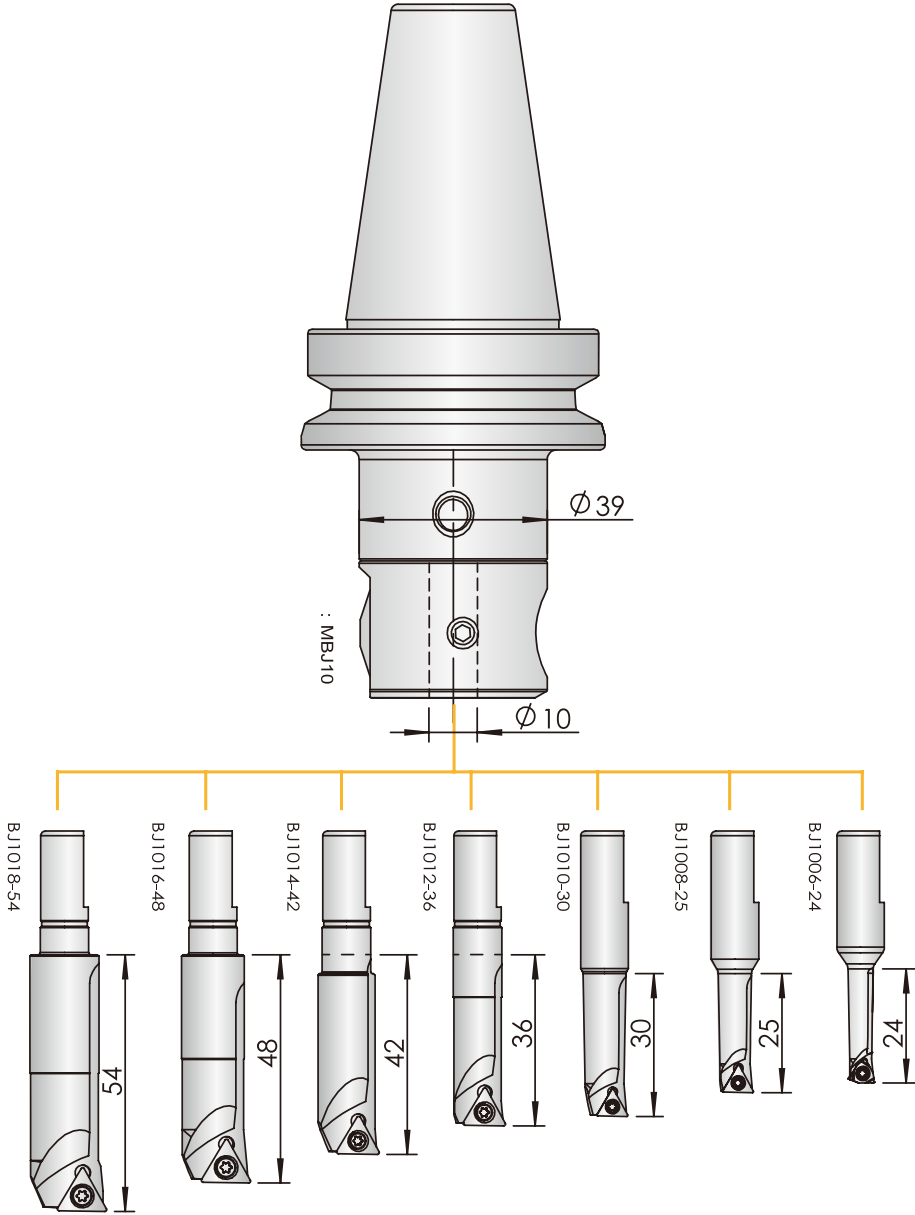
TOOLING SYSTEM

Internally cooled large bore boring tool assembly



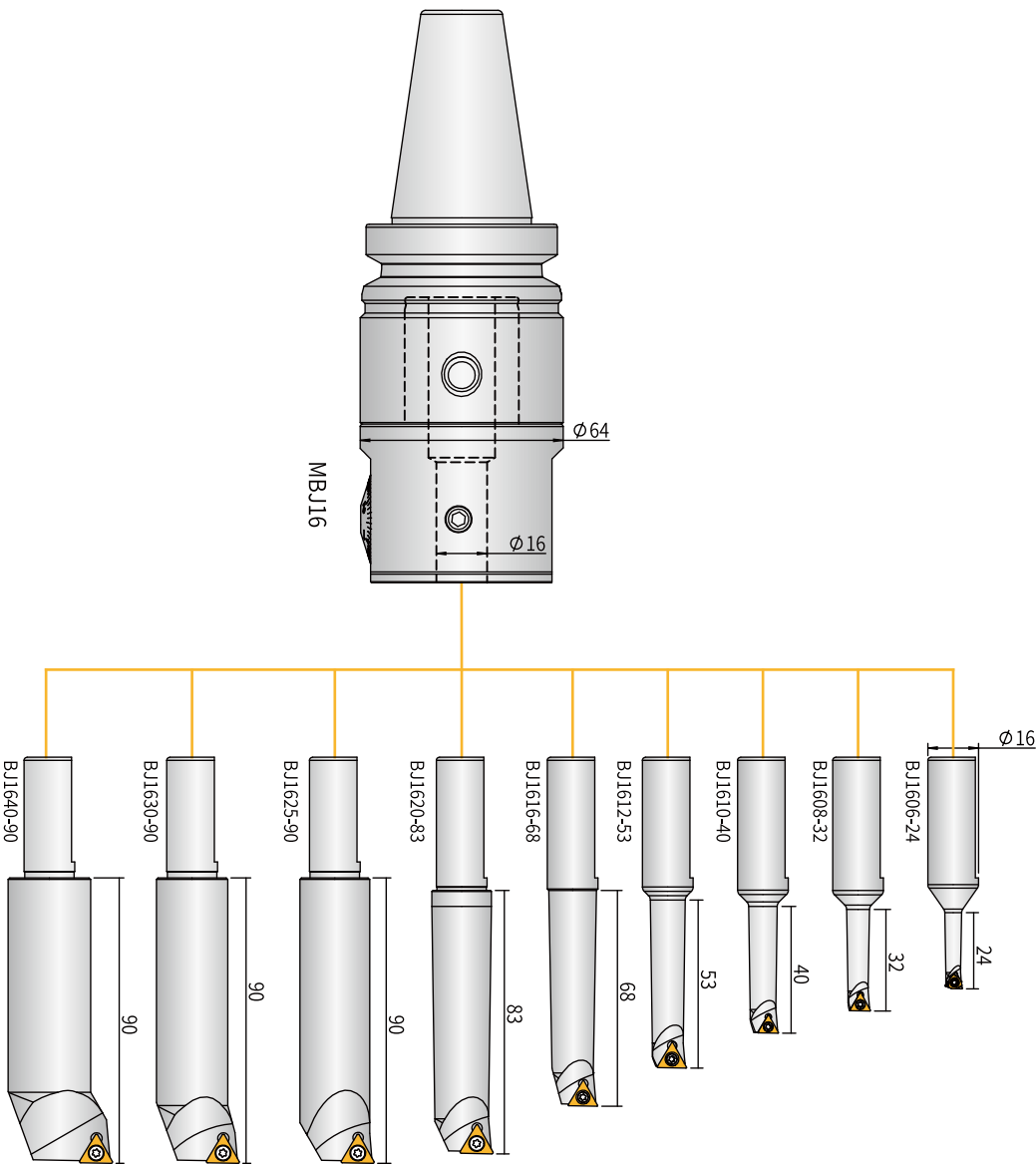
TOOLING SYSTEM

Small diameter boring tool assembly



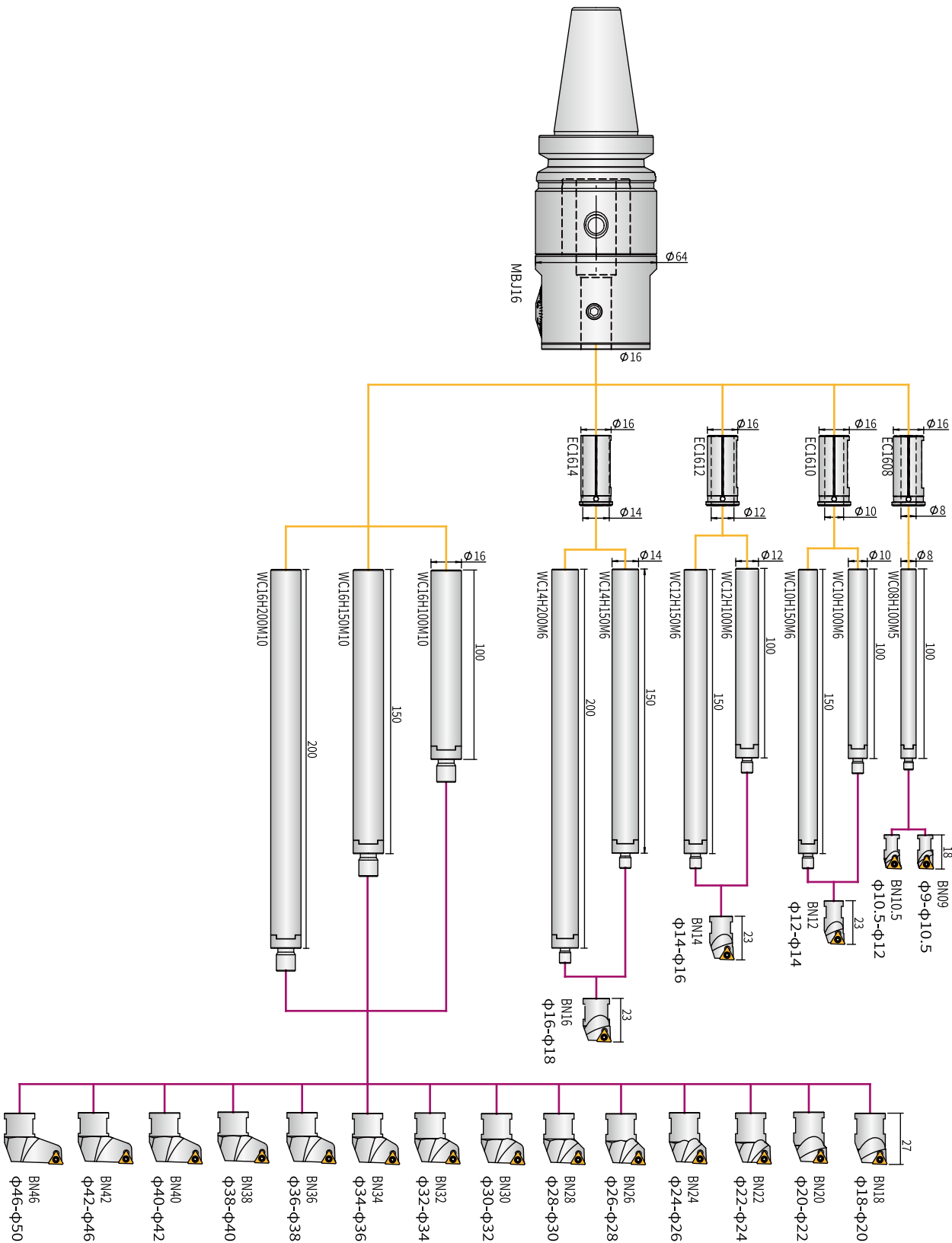
TOOLING SYSTEM

Small bore combination



TOOLING SYSTEM

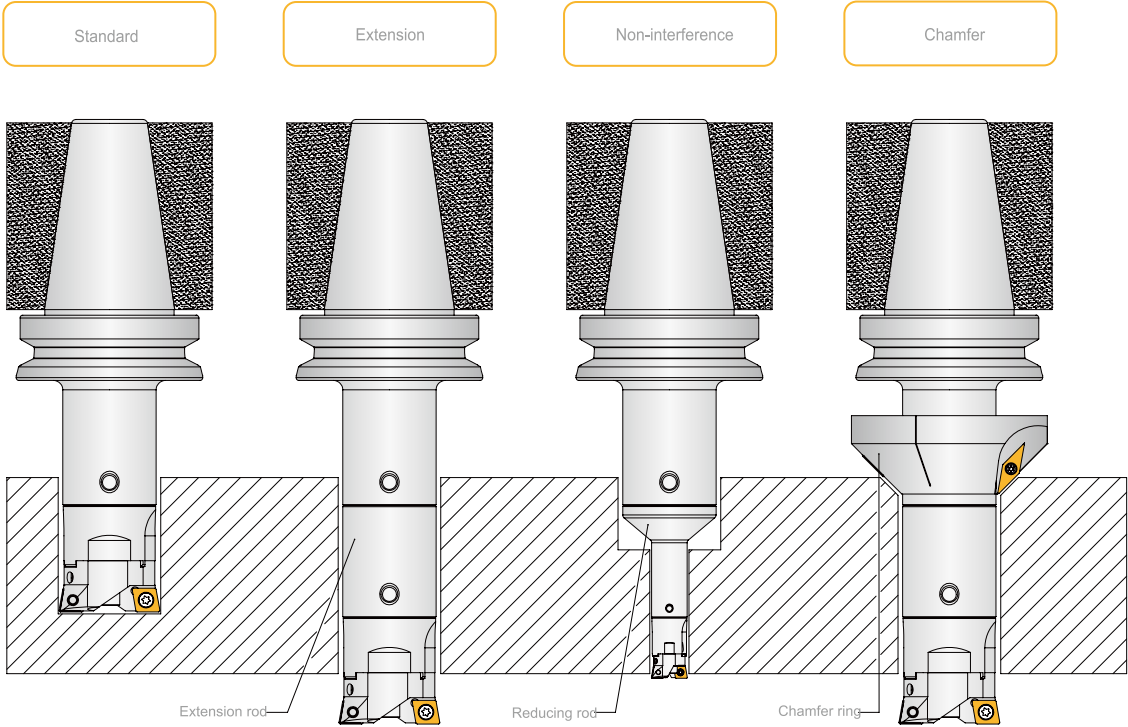
Small bore combination



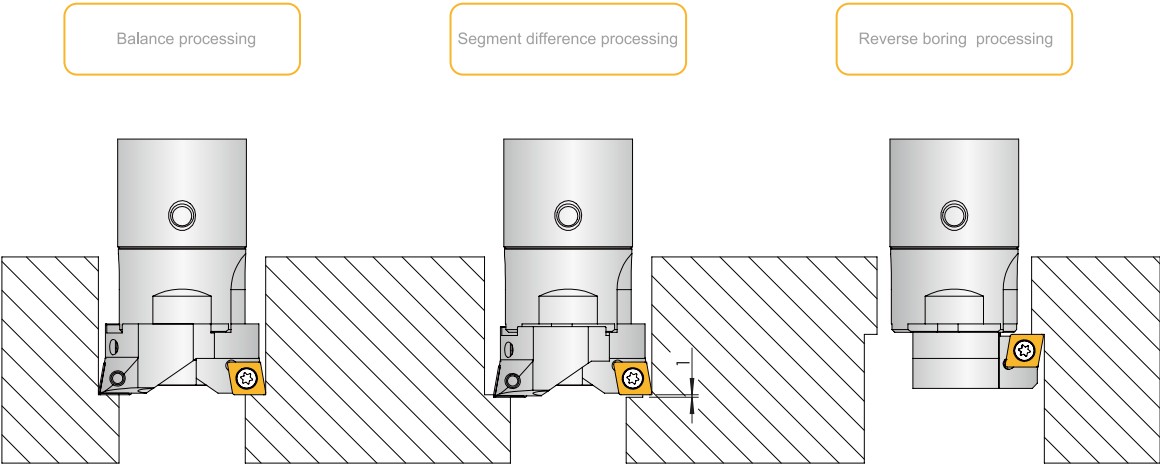
TOOLING SYSTEM

Rough boring series

Connection form



Processing methods



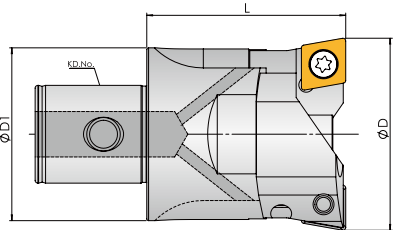
TOOLING SYSTEM

Blind hole type rough boring head

20-Φ203

processing range φ 20- φ 203

- Suitable for single and double edge boring , min processing diameter is 20 According to various processing
- Requirements, the boring tool can be easily adjusted to make small amount but various processing, the processing depth can be extended to the required length with the extension rod
- Clear side scales allow the user adjust to the required range easily, don't have to preset on the tool presetter

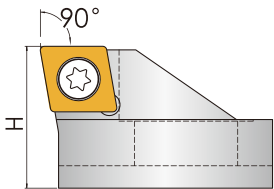
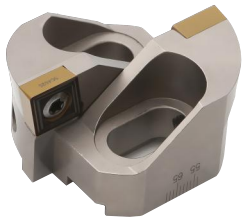


PROCESSING DIAMETER	ORDER COMBINATION MODEL	KD.NO.	CUTTER BODY MODEL	BLADE SEAT MODEL	D1	L	LOOCK SCREW COMBINATION	WEIGHT (KG)
20-26	WMC20-26GK1(WDC-2026)	1	WMC20-26GK1	WDC-2026	18.7	32.5	WMM4X16	0.06
25-33	WMC25-33GK2(WDC-2532)	2	WMC25-33GK2	WDC-2532	23.5	35.5	WMM5X16	0.11
32-42	WMC32-42GK3(WDC-3242)	3	WMC32-42GK3	WDC-3242	30.5	40	WMM6X20	0.19
41-51	WMC32-42GK3(WDC-4151)	3	WMC32-42GK3	WDC-4151	30.5	40	WMM6X20	0.21
41-54	WMC41-54GK4(WDC-4154)	4	WMC41-54GK4	WDC-4154	38.5	47	WMM8X25	0.38
53-66	WMC41-54GK4(WDC-5366)	4	WMC41-54GK4	WDC-5366	38.5	47	WMM8X25	0.42
53-70	WMC53-70GK5(WDC-5370)	5	WMC53-70GK5	WDC-5370	49.5	57	WMM10X30	0.75
69-86	WMC53-70GK5(WDC-6786)	5	WMC53-70GK5	WDC-6786	49.5	57	WMM10X30	0.87
68-90	WMC68-110GK6(WDC-6890)	6	WMC68-110GK6	WDC-6890	64	71	WMM10X35	1.6
88-110	WMC68-110GK6(WDC-88110)	6	WMC68-110GK6	WDC-88110	64	71	WMM10X35	1.73
98-126	WMC98-153GK6(WDC-98126)	6	WMC98-153GK6	WDC-98126	93	71	WMM12X40	2.32
125-153	WMC98-153GK6(WDC-125153)	6	WMC98-153GK6	WDC-125153	93	71	WMM12X40	2.58
98-126	WMC98-153GK7(WDC-98126)	7	WMC98-153GK7	WDC-98126	93	87	WMM12X40	3.85
125-153	WMC98-153GK7(WDC-125153)	7	WMC98-153GK7	WDC-125153	93	87	WMM12X40	4.11
148-176	WMC148-203GK6(WDC-148176)	6	WMC148-203GK6	WDC-148176	138	71	WMM12X40	2.9
175-203	WMC148-203GK6(WDC-175203)	6	WMC148-203GK6	WDC-175203	138	71	WMM12X40	3.15

- Attached with a set of locking screw.shim and a L-shaped wrench
- No inserts attached,please purchase according to your needs
- All the CMR boring tools with internal coolant
- Blind hole type tool holder is included as standard

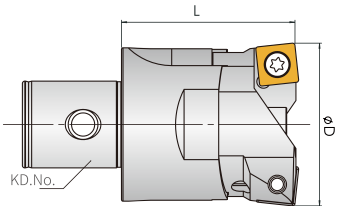
TOOLING SYSTEM

Insert holder for rough boring



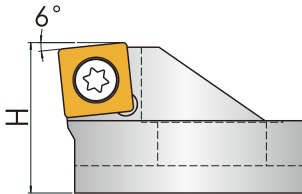
DESIGNATION	ADAPTS TO CUTTER BODY MODEL	H	INSERT	SCREW
WDC-2026	WMC20-26GK1	13	CC 06...	WMM 2.5X6T8
WDC-2532	WMC25-33GK2	14	CC 06...	WMM 2.5X6T8
WDC-3242	WMC32-42GK3	19.5	CC 09...	WMM 4X10-T15
WDC-4151	WMC32-42GK3	19.5	CC 09...	WMM 4X10-T15
WDC-4154	WMC41-54GK4	21.5	CC 12...	WMM 5X12-T20
WDC-5366	WMC41-54GK4	21.5	CC 12...	WMM 5X12-T20
WDC-5370	WMC53-70GK5	27.5	CC 12...	WMM 5X12-T20
WDC-6786	WMC53-70GK5	27.5	CC 12...	WMM 5X12-T20
WDC-6890	WMC68-110GK6	30	CC 12...	WMM 5X12-T20
WDC-88110	WMC68-110GK6	30	CC 12 ...	WMM 5X12-T20

Through-hole rough boring head



PROCESSING DIAMETER	ORDER COMBINATION MODEL	KD.NO.	CUTTER BODY MODEL	BLADE SEAT MODEL	D1	L	LOOCK SCREW COMBINATION	WEIGHT (KG)
20-26	WMC20-26GK1(WDS-2026-B)	1	WMC20-26GK1	WDS-2026-B	18.7	32.5	WMM4X16	0.06
25-33	WMC25-33GK2(WDS-2532-B)	2	WMC25-33GK2	WDS-2532-B	23.5	35.5	WMM5X16	0.11
32-42	WMC32-42GK3(WDS-3242-B)	3	WMC32-42GK3	WDS-3242-B	30.5	40	WMM6X20	0.19
41-51	WMC32-42GK3(WDS-4151-B)	3	WMC32-42GK3	WDS-4151-B	30.5	40	WMM6X20	0.21
41-54	WMC41-54GK4(WDS-4154-B)	4	WMC41-54GK4	WDS-4154-B	38.5	47	WMM8X25	0.38
53-66	WMC41-54GK4(WDS-5366-B)	4	WMC41-54GK4	WDS-5366-B	38.5	47	WMM8X25	0.42
53-70	WMC53-70GK5(WDS-5370-B)	5	WMC53-70GK5	WDS-5370-B	49.5	57	WMM10X30	0.75
69-86	WMC53-70GK5(WDS-6786-B)	5	WMC53-70GK5	WDS-6786-B	49.5	57	WMM10X30	0.87
68-90	WMC68-110GK6(WDS-6890-B)	6	WMC68-110GK6	WDS-6890-B	64	71	WMM10X35	1.6
88-110	WMC68-110GK6(WDS-88110-B)	6	WMC68-110GK6	WDS-88110-B	64	71	WMM10X35	1.73
98-126	WMC98-153GK6(WDS-98126-B)	6	WMC98-153GK6	WDS-98126-B	93	71	WMM12X40	2.32
125-153	WMC98-153GK6(WDS-125153-B)	6	WMC98-153GK6	WDS-125153-B	93	71	WMM12X40	2.58
98-126	WMC98-153GK7(WDS-98126-B)	7	WMC98-153GK7	WDS-98126-B	93	87	WMM12X40	3.85
125-153	WMC98-153GK7(WDS-125153-B)	7	WMC98-153GK7	WDS-125153-B	93	87	WMM12X40	4.11
148-176	WMC148-203GK6(WDS-148176-B)	6	WMC148-203GK6	WDS-148176-B	138	71	WMM12X40	2.9
175-203	WMC148-203GK6(WDS-175203-B)	6	WMC148-203GK6	WDS-175203-B	138	71	WMM12X40	3.15

Insert holder for through hole rough boring



DESIGNATION	ADAPTS TO CUTTER BODY MODEL	H	INSERT	SCREW
WDS-2026-B	WMC20-26GK1	13.6	SC 06...	WMM 2.5X6T8
WDS-2532-B	WMC25-33GK2	14.6	SC 06...	WMM 2.5X6T8
WDS-3242-B	WMC32-42GK3	20.5	SC 09...	WMM 4X10-T15
WDS-4151-B	WMC32-42GK3	22.5	SC 09...	WMM 4X10-T15
WDS-4154-B	WMC41-54GK4	27.7	SC 12...	WMM 5X12-T20
WDS-5366-B	WMC41-54GK4	27.7	SC 12...	WMM 5X12-T20
WDS-5370-B	WMC53-70GK5	30.3	SC 12...	WMM 5X12-T20
WDS-6786-B	WMC53-70GK5	30.3	SC 12...	WMM 5X12-T20
WDS-6890-B	WMC68-110GK6	30.3	SC 12...	WMM 5X12-T20
WDS-88110-B	WMC68-110GK6	30.3	SC 12 ...	WMM 5X12-T20

- No inserts attached,please purchase according to your needs
- Attached with screw and wrench

Fine boring head(large aperture)

Processing range φ150-φ850

- CLP series of large aperture modular fine boring head with good balance and high accuracy
- Same components with rough boring tools, so optional accessories can be used together
- Aluminum alloy bridge rough boring tool available to reduce the weight of tool.

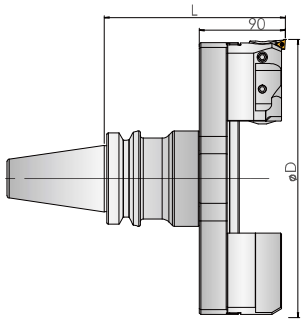


Standard steel bridge fine boring head

Process Range ΦD	Designation	Weight (kg)	 Connect Plate		 Steel Bridge		 Fine Boring Slide		 Balance Block		Adapted Insert Seat			
			Model	Weight (kg)	Model	Weight (kg)	Model	Weight (kg)	Model	Weight (kg)	Insert Holder	Insert	Insert Holder	Insert
150-210	HWPL 150-210	6.2	-	-	CL 150-210	2.5	LP 150	1.6	LM 200	1.6	FST-6A FST-6B FST-6C	TC 1102	FSC-6A FSC-6B FSC-6C	CC 09T3
210-290	HWPL 210-290	7.5			CL 210-290	3.7								
290-370	HWPL 290-370	8.5			CL 290-370	5.05								
370-450	HWPL 370-450	10.2			CL 370-450	6.8								
450-530	HWPL 450-530	11.6			CL 450-530	8.4								
530-610	HWPL 530-610	17.5	CL40-200	4.7	CL 530-610	9.5								
610-690	HWPL 610-690	19			CL 610-690	11								
690-770	HWPL 690-770	20.8			CL 690-770	12.7								
770-850	HWPL 770-850	23			CL 770-850	15								

HWPL 150-210 AL

- No inserts attached,please purchase according to your needs
- No rivets attached, rivet type is different for different machines.
- OEM service available.



Lighweight aluminum bridge fine boring

Process Range ΦD	Designation	Weight (kg)							Adapted Insert Seat							
			Designation	Weight (kg)	Designation	Weight (kg)	Designation	Weight (kg)	Insert Holder	Insert	Insert Holder	Insert				
150-210	HWPL 150-210 AL	4.6	CL 150-210 AL	0.9	LP 150	1.6	LM 150	1.05	FST-6A FST-6B FST-6C	TC 1102	FSC-6A FSC-6B FSC-6C	CC 09T3				
210-290	HWLP 210-290 AL	5.1	CL 210-290 AL	1.3			LM 200	1.6								
290-370	HWLP 290-370 AL	5.5	CL 290-370 AL	2												
370-450	HWLP 370-450 AL	5.9	CL 370-450 AL	2.5												
450-530	HWLP 450-530 AL	6.2	CL 450-530 AL	3												

OEM service available.

The expanding function of LP 150fine boring head

The processing range will increase by exchanging insert seat. A reverse installation achieves reverse boring, to improve efficiency and accuracy

Working range of the exchange insert holder

Process Range	bridge	Insert Seat	Process Range	bridge	Insert Seat	Process Range	bridge	Insert Seat
150-210	CL 150-210	FS*-6A	370-450	CL 370-450	FS*-6A	610-690	CL 610-690	FS*-6A
176-236		FS*-6B	396-476		FS*-6B	636-716		FS*-6B
200-260		FS*-6C	420-500		FS*-6C	660-740		FS*-6C
210-290	CL 210-290	FS*-6A	450-530	CL 450-530	FS*-6A	610-770	CL 690-770	FS*-6A
236-315		FS*-6B	476-556		FS*-6B	716-746		FS*-6B
260-340		FS*-6C	500-580		FS*-6C	740-820		FS*-6C
290-370	CL 290-370	FS*-6A	530-610	CL 530-610	FS*-6A	770-850	CL 770-850	FS*-6A
316-396		FS*-6B	556-636		FS*-6B	796-876		FS*-6B
340-420		FS*-6C	580-660		FS*-6C	820-900		FS*-6C

OEM service available.

TOOLING SYSTEM

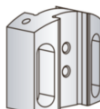
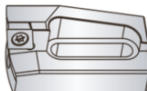
Rough boring head (large aperture)

φ150-φ530
processing range φ 150- φ 530

- Modular design simplifies tool management, for it only needs to combine the componets to meet various ranges of processing
- Aluminum alloy bridge rough boring tool available to reduce the weight of tool



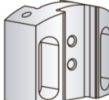
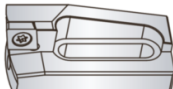
Standard type steel bridge rough boring tool

PROCESSING RANGE ø	DESIGNATION	WEIGHT (KG)									INSERT
			LINK PLATE		STEEL BRIDGE		ROUGH BORING SLIDE		INSERT SEAT (2PCS)		
			DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	
150-210	HGR 150-210	5.5			HG 150-210	2.5	GR 150	1.9	WS 150	0.6	CC 1204...
210-290	HGR 210-290	6.7			HG 210-290	3.7					
290-370	HGR 290-370	8			HG 290-370	5					
370-450	HGR 370-450	9.8			HG 370-450	6.8					
450-530	HGR 450-530	11.4			HG 450-530	8.4					
530-610	HGR 530-610	17.2	HG40-200	4.7	HG 530-610	9.5					
610-690	HGR 610-690	18.7	HG40-200	4.7	HG 610-690	11					
690-770	HGR 690-770	20.4	HG40-200	4.7	HG 690-770	12.7					
770-850	HGR 770-850	22.7	HG40-200	4.7	HG 770-850	15					

- No inserts attached,please purchase according to your needs
- No rivets attached. Please note it, different machines use different type rivets
- If you need, extended bridge type shank (Non-standard) is available.
- The tip and direction of otation of the standard product are in the same phase

TOOLING SYSTEM

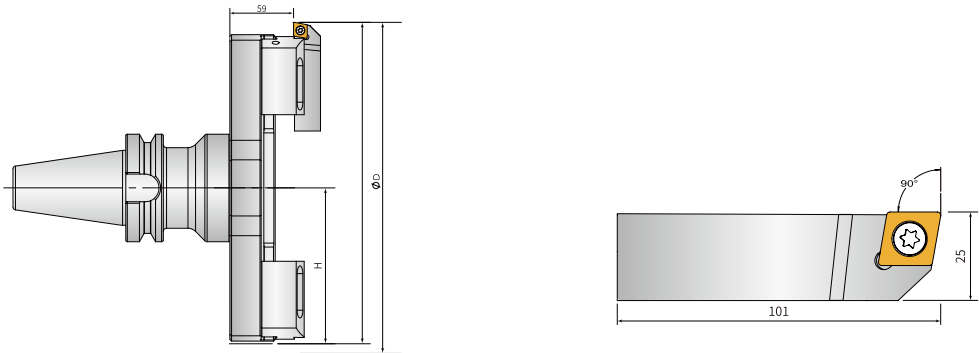
Lightweight aluminum bridge rough boring tool

PROCESSING RANGE Ø	DESIGNATION	WEIGHT (KG)							INSERT
			ALUMINIUM BRIDGE		ROUGH BORING SLIDE		INSERT SEAT (2PCS)		
			DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	
150-210	HGR 150-210AL	3.9	HG 150-210AL	0.9	GR 150	1.9	WS 150	0.6	CC 1204...
210-290	HGR 210-290AL	4.3	HG 210-290AL	1.3					
290-370	HGR 290-370AL	5	HG 290-370AL	2					
370-450	HGR 370-450AL	5.5	HG 370-450AL	2.5					
450-530	HGR 450-530AL	6	HG 450-530AL	3					

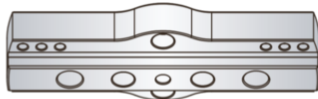
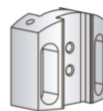
- Componets can be sold separately
- OEM service available

TOOLING SYSTEM

Rough boring head (large aperture)revers boring

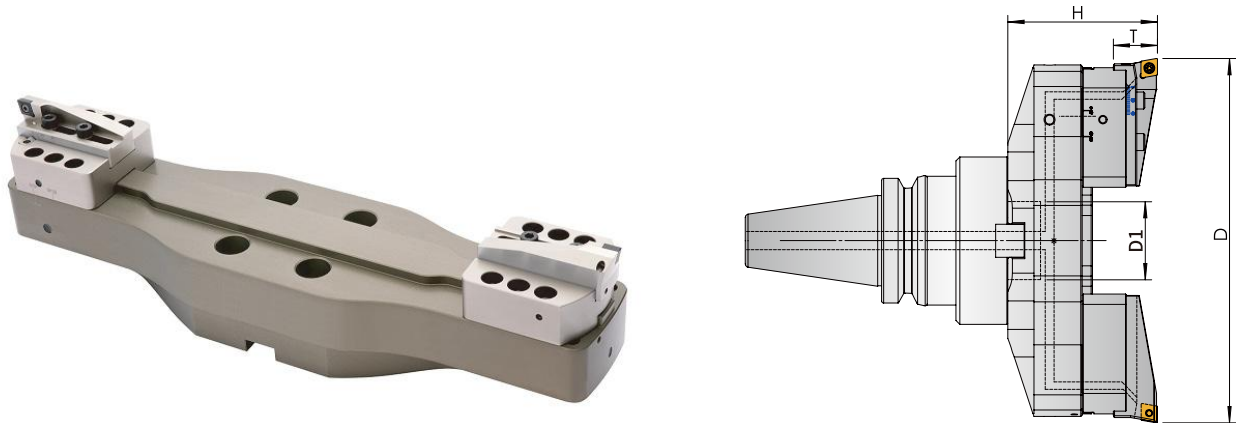


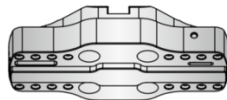
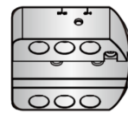
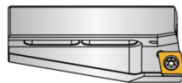
MIN.diameter of bottom hole=H+(Count Bore Diameter/2)

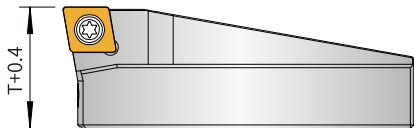
PROCESSING RANGE Ø			H					INSERT
	ALUMINIUM BRIDGE			ROUGH BORING SLIDE		INSERT SEAT (1PCS)		
	DESIGNATION	WEIGHT		DESIGNATION	WEIGHT	DESIGNATION	WEIGHT	
165-205	HG 165-205	2.5	75	GR 150	1.9	WSC- 150	0.6	CC 1204...
225-265	HG 225-265	3.7	105					
305-345	HG 305-345	5.05	145					
385-425	HG 385-425	6.8	185					
465-505	HG 465-505	8.4	225					

TOOLING SYSTEM

Internally cooled large bore rough boring tool (full range of aluminum-based bridges)



PROCESSING RANGE Ø	DESIGNATION	WEIGHT (KG)	INTERFACE	HIGHT				INSERT			
					ALUMINIUM BRIDGE		ROUGH BORING SLIDE		INSERT SEAT (2PCS)		
					DESIGNATION	WEIGHT	DESIGNATION		WEIGHT	DESIGNATION	WEIGHT
200-280	HN 200-280AL	6.9	HG40	115	MG200-280AL	2.8	GR 200	3.2	WSC 200	0.9	CC 1204...
280-360	HN 280-360AL	8.1	FMB60	115	MG280-360AL	4					
360-440	HN 360-440AL	10.3		125	MG360-440AL	6.2					
440-520	HN 440-520AL	11.8		125	MG440-520AL	7.7					
520-600	HN 520-600AL	13.8		135	MG520-600AL	9.7					
600-680	HN 600-680AL	15.3		135	MG600-680AL	11.2					
680-760	HN 680-760AL	18.2		145	MG680-760AL	14.1					
760-840	HN 760-840AL	19.5		145	MG760-840AL	15.4					



Segment difference rough boring tool holder

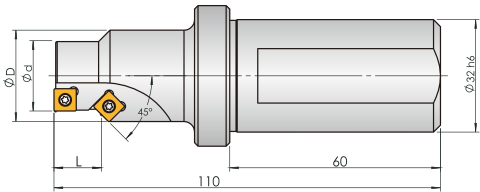
Rough boring insert seat	
WSC 200	CC 1204

- When used in large margin cutting, with the standard RNC 200 toolholder, it is possible to achieve a height difference of 0.4 mm.

Machine folder-Shentou

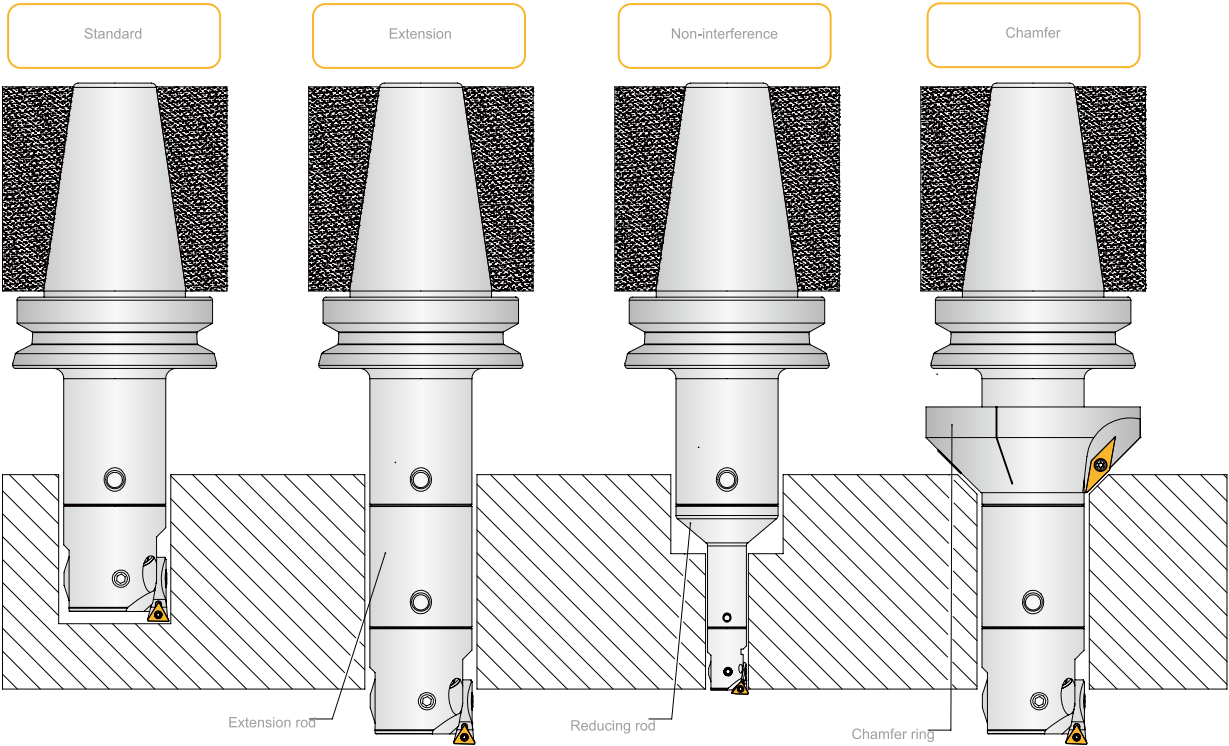
Precision boring series

Connection form

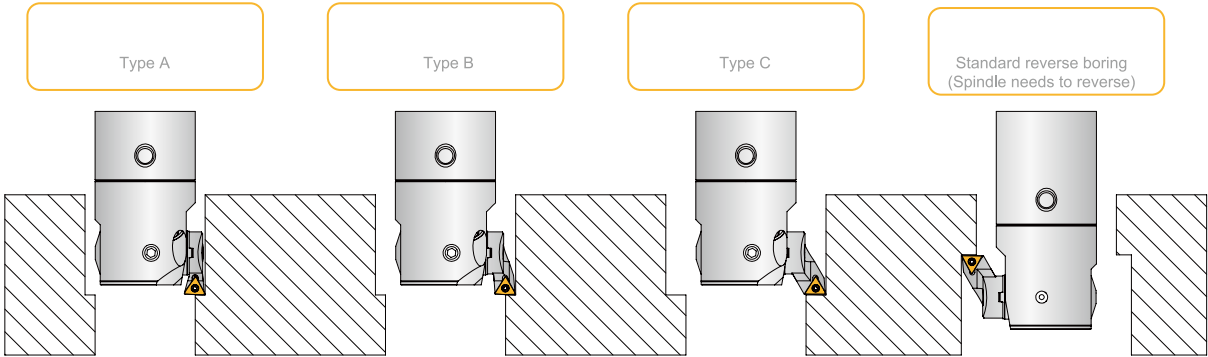


DESIGNATION	d	D	L	C	INSERT
DC-11-T32	11	19	7	1C	SP 0602...
DC-14-T32	14	20	9		
DC-18-T32	18	24	11		
DC-20-T32	20	26	13.5		
DC-23-T32	23	31	15	2C	SP 1104
DC-26-T32	26	34	18		
DC-32-T32	32	40	22		
DC-39-T32	39	47	26		

- Inner hole and hole chamfer are processed at the same time to improve processing efficiency.
- OEM service available.



Processing methods

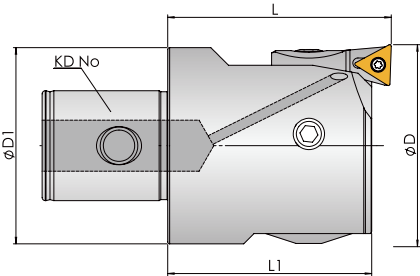


TOOLING SYSTEM

Fine boring head(Selfbalancing series)

Φ32-Φ105
processing range φ 32-φ 105

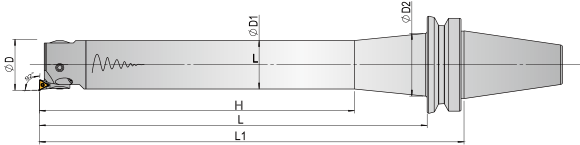
- The built-in self-balancing compensation mechanism is suitable for high-speed machining to achieve stable machining.
- Precision fine boring head with the smallest adjustment scale of Φ0.01mm.



DESIGNATION	KD.NO	Blade seat	Processing range D	L	L1	D1	KG	INSERT
HWM32-42KD3	3	FST-3A	32-42	45	37	31	0.25	TP 0802
HWM41-54KD4	4	FST-4A	41-54	51	43	40	0.45	TC1102
HWM53-70KD5	5	FST-5A	53-70	65	52	50	0.86	
HWM68-88KD6	6	FST-6A	68-88	79	67	64	1.85	
HWM85-105KD6		FST-6B	85-105				1.96	

- Processing range refers to the value of insert tip radius R0.2 and R0.4.
- It is not recommended to use the B/C insert seat, which will affect the self-balancing effect
- No inserts attached,please purchase according to your needs
- All the CMP boring tools with internal coolant.

Damping anti-vibration fine boring head



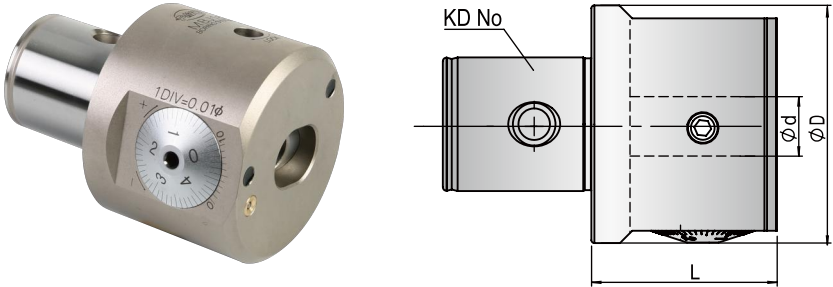
DESIGNATION	Blade seat	Processing range D	D1	D2	H	L	L1	KG	INSERT
BT40HMMW41-74KH280	FS-4A	41-54	40	55	280	320	358	7.4	TP 1102
	FS-4B	50-63							
	FS-4C	61-71							
BT40HMMWP53-95KH350	FS-5A	53-70	50	65	350	400	438	11	
	FS-5B	65-82							
	FS-5C	78-95							
BT40HMMW68-150KH450	FS-6A	68-100	64	80	450	512	550	18.9	
	FS-6B	94-126							
	FS-6C	118-150							
BT40HMMW100-203KH525	FS-6A	100-153	70	85	525	525	563	23.5	
	FS-6B	126-179							
	FS-6C	150-203							

- Large aperture can be customized
- When encountering special circumstances, please provide the corresponding tool size in the table according to the on-site situation, and carry out technical communication with the Mugt tool engineer

TOOLING SYSTEM

Fine boring head with small bore

processing range ϕ 6- ϕ 50



Designation	Processing range	KD NO.	D	d	L	Trip	Kg Weight
MBJ10	6-20	4	40	10	28.5	1.5	0.35
MBJ16	6-50	6	64	16	50	6	1.25

TOOLING SYSTEM

steel boring bar

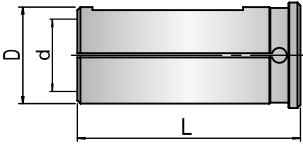


Designation	Processing range	D	D1	L1	L2	L	Insert	Insert screw	Insert spanner	Weight
BJ1606-24	6-8	6	16	24	49	73	WBGT 0601	DM2x4	T6	0.07
BJ1608-32	8-11	8		32	48	80	TBGT 0601			0.08
BJ1610-40	10-13	10		40	47	87	0.08			
BJ1612-53	12-17	12		53	45	98	TPGH 0902	DM2.5x6	T8	0.11
BJ1616-68	16-21	16		68	42	110	0.14			
BJ1620-83	20-26	20		83	42	125	TPGH 1103	DM3x7	T10	0.21
BJ1625-90	25-32	25		90	38	128				0.3
BJ1630-90	30-42	30		90	38	128				0.32
BJ1640-90	40-50	40		90	38	128				0.41

steel boring bar

Conversion sieveve

Designation	Processing range	D	D1	L1	L2	L	Insert	Insert screw	Insert spanner	Weight	
BJ1006-23	6-8	6	10	23	30	53	WBGT 0601	DM2x4	T6	0.05	
BJ1008-25	8-10	8		25	30	55	TBGT			0601	0.06
BJ1010-30	10-12	10		30	30	60	0601				0.07
BJ1012-36	12-14	12		36	30	66	TPGH	DM2.5x6	T8	0.09	
BJ1014-42	14-16	14		42	30	72	0902			0.12	
BJ1016-48	16-18	16		48	30	78	TPGH	DM3x7	T10	0.14	
BJ1018-54	18-20	18		54	30	84	1103			0.2	



Designation	D	d	L	Combined tungsten steel cutter rod
EC1608	16	8	37	WC08*M5
EC1610	16	10	37	WC10*M6
EC1612	16	12	37	WC12*M6
EC1614	16	14	37	WC14*M6

TOOLING SYSTEM

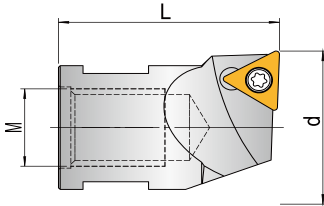
TOOLING SYSTEM

Carbide anti-seismic shank



Designation	D	L	M	Conversion sleeve	Weight	Combined boring head
WC08H100M5	8	100	M5	EC1608	0.08	BN09,BN10.5
WC10H100M6	10	100	M6	EC1610	0.15	BN12
WC10H150M6	10	150			0.23	
WC12H100M6	12	100		EC1612	0.24	BN14
WC12H150M6	12	150			0.33	
WC14H150M6	14	150	M6	EC1614	0.43	BN16
WC14H200M6	14	200			0.58	
WC16H100M10	16	100	M10	-	0.42	BN18,BN20,BN22,BN24,BN26,BN28,BN30,BN32,BN34,BN36,BN38,BN40,BN42 ,BN46,
WC16H150M10	16	150	M10		0.61	
WC16H200M10	16	200	M10		0.82	

Boring cutter head

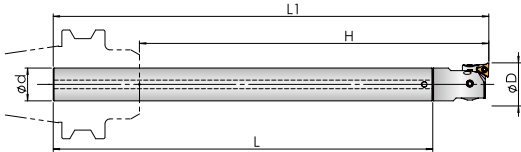


Designation	Processing range	d	L	M	Insert	Insert screw	Insert spanner	Weight
BN09	9-10.5	9	18	M5	TPGT 0802	DM2x4	T6	0.03
BN10.5	10.5-12	10.5	18	M5				0.03
BN12	12-14	12	23	M6				0.03
BN14	14-16	14						0.03
BN16	16-18	16						0.04
BN18	18-20	18	27	M10				0.04
BN20	20-22	20						0.05
BN22	22-24	22						0.05
BN24	24-26	24						0.05
BN26	26-28	26						0.05
BN28	28-30	28						0.06
BN30	30-32	30						0.06
BN32	32-34	32						0.07
BN34	34-36	34						0.09
BN36	36-38	36						0.11
BN38	38-40	38						0.15
BN40	40-42	40						0.16
BN42	42-46	42						0.19
BN46	46-50	46						0.26

Carbide shock proof tool bar

Φ20-Φ60
processing range Φ20-Φ60

- Super-hard tungsten carbide boring bar, hard and durable, high hardness, high rigidity,high shock resistance, can be used to deep hole boring.
- With internal coolant, and the drainage and with good chip removal and internal cooling effect when deep hole processing.
- Straight shank,the machining depth can be adjusted according to your needs.

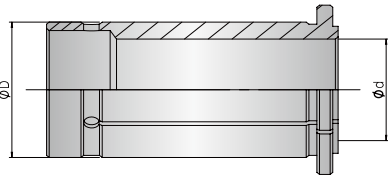


Designation	Φd	Processing range	L1	L	H	Fine
WC19H150KD1	19	20-36	182.5	150	130	CMP 20-36KD1
WC19H200KD1			232.5	200	170	
WC19H250KD1			282.5	250	210	
WC24H200KD2	24	25-47	235.5	200	170	CMP 25-47KD2
WC24H250KD2			285.5	250	210	
WC24H300KD2			335.5	300	260	
WC32H250KD3	32	32.5-60	290	250	180	CMP 32-60KD3
WC32H300KD3			340	300	230	
WC32H350KD3			390	350	300	

- No CMP fine boring head ,please purchase
- Note: The machining depth may not reach the effective machining depth depending on the material of the workpiece.

型号 Designation	Φd	ΦD
C 32-19	19	32
C 32-24	24	
C 42-19	19	42
C 42-24	24	
C 42-32	32	

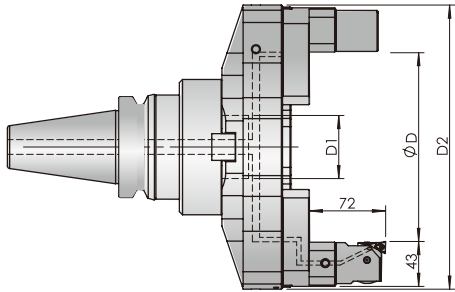
Carbide straight shank strong collet



- Collet should be used on the powerful milling shank

TOOLING SYSTEM

Inner cold outer round sleeve knife

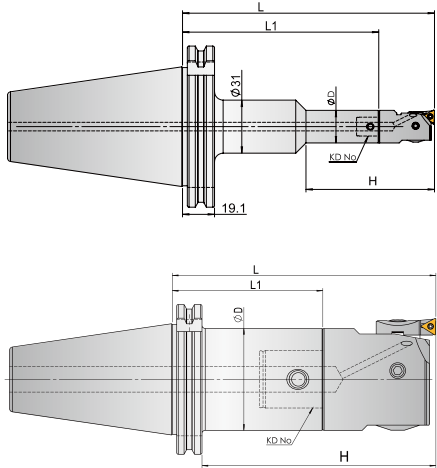


Processing range	Aluminum bridge				Set block		Balance block		Fine boring head		Shop blade holders		
	Designation	Weight	D1	D2	Designation	Weight	Designation	Weight	Designation	Weight			
100-180	NL 200-280AL	2.8	CL40	195	NP200-KD4	1.3	BZ-KD4	0.43	CMP 41-74KD4	0.42	FST-4A	TC 1102	CC 0602 TC 1103 TP 1103 TP 0902 DC 0702
180-260	NL 280-360AL	4.1	FMB60	275									
260-340	NL 360-440AL	6.2		355									
340-420	NL 440-520AL	7.7		435									
420-500	NL 520-600AL	9.7		515									
500-580	NL 600-680AL	11.2		595									
580-660	NL 680-760AL	14.1		675									
660-740	NL 760-840AL	15.4		755									

- Inserts are not included, please order it separately.
- Please reverse the spindle when machining the outer circle.
- When the fine is installed in the opposite direction, it can be used for boring At this time, the spindle should be rotated forward.

TOOLING SYSTEM

SK TOOL HOLDER

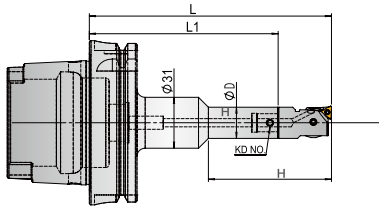
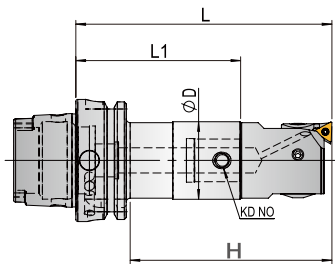
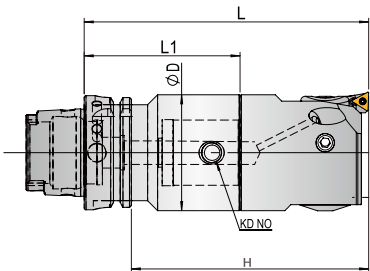


Designation	Picture	KD NO.	ΦD	L	L1	H H(effective depth)	Weight (kg)
SK40H075KD1	=	1	19	107.5	75	88	0.8
SK40H085KD2		2	24	120.5	85	101	1.05
SK40H095KD3		3	31	135	95	115.5	1
SK40H125KD3				165	125	145.5	1.3
SK40H085KD4		4	39	132	85	112.5	1.2
SK40H130KD4				177	130	157.5	1.8
SK40H075KD5		5	50	132	75	112.5	1.2
SK40H125KD5				182	125	162.5	2.3
SK40H065KD6		6	64	136	65	116.5	1.25
SK40H115KD6				186	115	166.5	2.65
SK40H165KD6				236	165	216.5	3.85
SK50H115KD1	—	1	19	147.5	115	75	3.2
SK50H085KD2	=	2	24	120.5	85	101	3.1
SK50H110KD2				145.5	110	126	3.2
SK50H090KD3		3	31	130	90	110.5	3.2
SK50H125KD3				165	125	145.5	3.4
SK50H115KD4		4	39	162	115	142.5	3.8
SK50H145KD4				192	145	172.5	4
SK50H105KD5		5	50	162	105	142.5	3.9
SK50H150KD5				207	150	187.5	4.5
SK 50H180KD5				237	180	217.5	5.0
SK50H240KD5				297	240	277.5	5.8
SK50H095KD6		6	64	166	95	146.5	4
SK50H170KD6				241	170	221.5	5.8
SK50H230KD6				301	230	281.5	7.2
SK50H290KD6				361	290	341.5	8.5

TOOLING SYSTEM

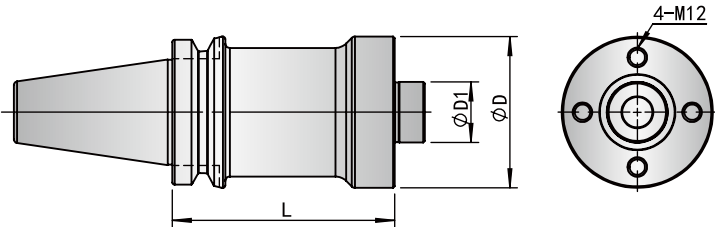
TOOLING SYSTEM

HSK TOOL HOLDER



Designation	Picture	KD NO.	ΦD	L	L1	H H(effective depth)	Weight
HSK63AH075KD1	—	KD1	19	107.5	75	81.5	0.9
HSK63AH100KD1				132.5	100	106.5	1.3
HSK63AH085KD2		KD2	24	120.5	85	94.5	1.7
HSK63AH115KD2				150.5	115	124.5	2.2
HSK63AH095KD3		KD3	31	135	95	109	2.3
HSK63AH125KD3				165	125	139	2.6
HSK63AH085KD4		KD4	39	132	85	106	2.1
HSK63AH130KD4				177	130	151	2.7
HSK63AH075KD5		KD5	50	132	75	106	2.3
HSK63AH100KD5				157	100	131	2.7
HSK63AH135KD5	=	KD6	64	192	135	166	2.8
HSK63AH075KD6				146	75	120	2.3
HSK63AH115KD6				186	115	160	2.8
HSK63AH165KD6	≡	KD6	64	236	165	210	3.1
HSK100AH105KD1		KD1	19	137.5	105	75	2.6
HSK100AH115KD2				150.5	115	121.5	2.7
HSK100AH125KD3		KD3	31	165	125	136	2.9
HSK100AH120KD4				167	120	138	3.1
HSK100AH180KD4		KD4	39	227	180	198	3.7
HSK100AH110KD5				167	110	138	3.5
HSK100AH185KD5		KD5	50	242	185	213	4.6
HSK100AH095KD6				166	95	137	3.6
HSK100AH170KD6		KD6	64	241	170	212	5.5
HSK100AH230KD6				301	230	272	7.1

BT bridge boring ang boring tool shank



Designation	ΦD	ΦD1	L	Screw	Weight
BT40H070CL40	100	40	70	CLM12x35	2.8
BT50H100CL40			100		6.1
BT50H150CL40			150		7.9
BT50H200CL40			200		9.7
BT50H250CL40			250		10.9
BT50H300CL40			300		12.5
BT50H350CL40			350		13.9



SK bridre boring and boring tool shank

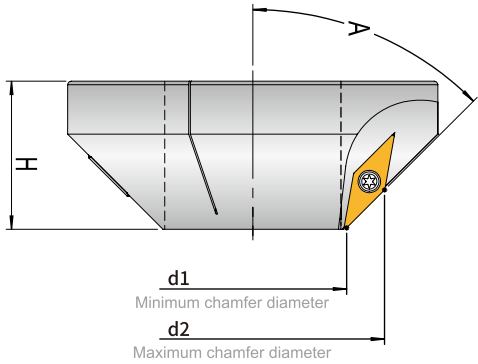
Designation	ΦD	ΦD1	L	Screw	Weight
SK40H070CL40	100	40	70	CLM12x35	2.8
SK50H080CL40			80		5.1
SK50H150CL40			150		7.3
SK50H200CL40			200		9.4
SK50H250CL40			250		10.5



HSK bridre boring and boring tool shank

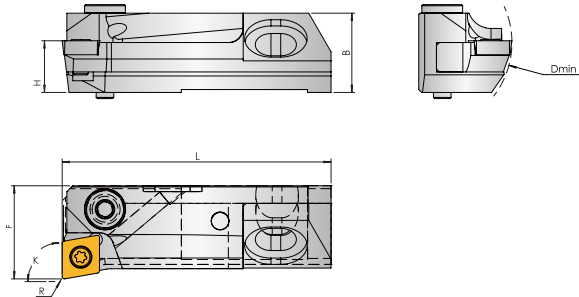
Designation	ΦD	ΦD1	L	Screw	Weight
HSK63AH070CL40	100	40	70	CLM12x35	2.8
HSK100AH080CL40			80		5.1
HSK100AH150CL40			150		7.3
HSK100AH200CL40			200		9.3
HSK100AH250CL40			250		10.5
HSK100AH300CL40			300		12.4

Chamfer ring



Designation	Teeht	Angle A	d1	d2	H	Holder	Insert	Screw	Locking screw	Weight
MC1-34-45	1	45	21	34	22	KD1	VCGT110302	DM3x7-T10	M5x16	0.06
MC2-39-45			26	39	25	KD2				0.12
MC3-54-45			34	54	35	KD3	VCGT 160404	DM4x10-T15	M6x20	0.52
MC4-62-45			42	62	38	KD4				0.7
MC5-93-45	53		93	43	KD5	M6x25			1.31	
MC6-107-45	67		107	46	KD6	M8x25			1.82	
MC6-138-45	98		138						3.85	
MC6-160-45	120		160						5.58	
MC1-41-30	2	30	23	41	30	KD1	VCGT110302	DM3x7-T10	M5x16	0.11
MC2-46-30			28	46	35	KD2				0.22
MC3-53-30			35	53		KD3			M6x20	0.35
MC4-61-30			43	61		KD4				0.42
MC5-84-30			56	84	48	KD5	VCGT 160404	DM4x10-T15	M8x25	1.3
MC6-98-30			70	98		KD6				1.2
MC6-120-30			92	120						3.05
MC6-142-30			114	142						4.1

Fine tuning tool holder



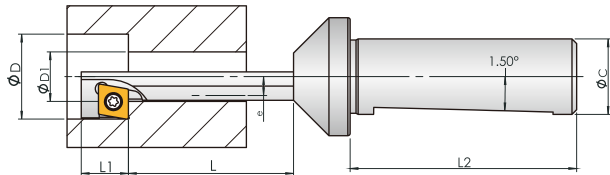
The picture is the right hand tool holder

Designation	Dmin	L	F	B	H	K	R	Insert	Screw
FSC-8516A0-06-R/L	28	45.8	16	13.5	8.8	90°	0.4	CC 0602	DM2.5x6-T8
FSC-8516A5-06-R/L						95°			
FST-8516A0-09-R/L						90°		TP 0902	DM2.5x6-T8
FST-8516A5-09-R/L						95°			
FSD-8516A30-07-R/L		47.5				120°		DC 0702	DM2.5x6-T8
FST-8520A0-11C-R/L	36	45.8	20			90°		TC 1102	
FST-8520A5-11C-R/L						95°			
FST-8520A0-11P-R/L						90°		TP 1103	DM3x6-T10
FST-8520A5-11P-R/L						95°			

- Please order the insert separately
- Fine adjustment accuracy diameter is φ0.01mm
- Radial range:0- φ 6mm， Axial range:0-10mm

Spare Parts	Name	Designation
	Axial adjustment block	SV-12
	Axial adjustment screw	SVM5-20
	Tool holder fixing screw	RMM5-20
	Tool holder fixing Wrench	PS-4B
	Radial adjustment Wrench	PS-2.5B
	Axial adjustment Wrench	PS-3B

Machine folder type reverse pull knife

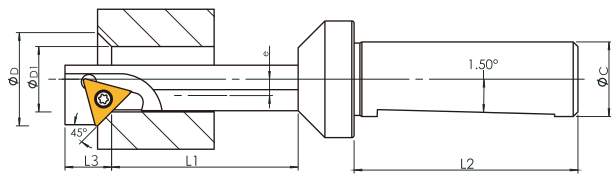


Designation	D	D1	C	L2	L	L1	e	Insert
DPF-18-W16	18	10.5	16	48	35	10	4	CC 0602
DPF-20-W16	20	13	16	48	40		4	
DPF-23-W20	23	15	20	50	50		4.5	
DPF-26-W20	26	17	20	50	50	13	5	CC 09T3
DPF-33-W25	33	21	25	56	70		6.5	
DPF-40-W25	40	25	25	56	80		8	

- Avoid secondary clamping to ensure accurate position of the hole Reverse pulling process step
- One direction turning to reduce the chance of damage
- Non-standard design body with best rigidity
- Non-standard customization is acceptable

1. Spindle orientation
2. Eccentric shift (e value)
3. Z axis down
4. Displacement to the center of the hole (e value)
5. Spindle makes upward rotation and reverse pulling process.
6. Spindle orientation
7. Eccentric shift (e value)
8. Move up to a safe position and finish processing

Machine folder anti-pull chamfering knife



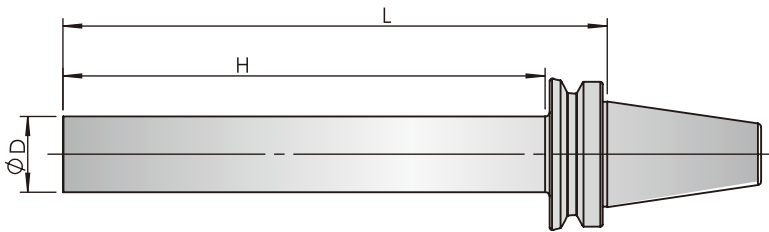
Designation	D	D1	C	L2	L1	L3	e	Insert	
DCR-14-W16	20	14	16	48	40	10	3.5		
DCR-17-W20	23	17	20	50	50				
DCR-21-W25	27	21	25	56	70		4		
DCR-24-W25	31	24	25	56	80				

- Avoid secondary clamping to ensure accurate position of the hole
- One direction turning to reduce the chance of damage
- Non-standard design body with best rigidity
- Non-standard customization is acceptable

1. Spindle orientation
2. Eccentric shift (e value)
3. Z axis down
4. Displacement to the center of the hole (e value)
5. Spindle makes upward rotation and reverse pulling process.
6. Spindle orientation
7. Eccentric shift (e value)
8. Move up to a safe position and finish processing

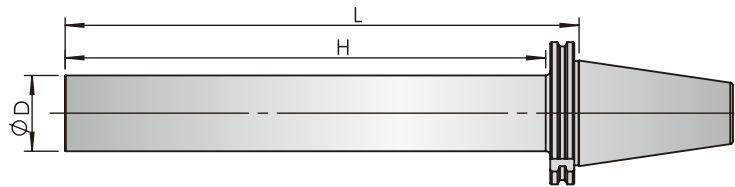
BBT

Non-standard series



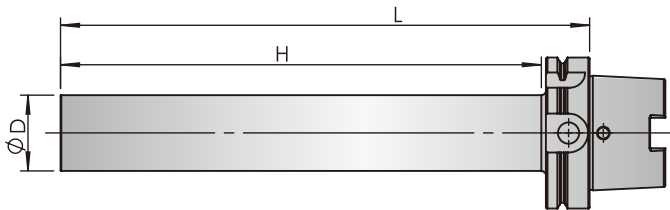
Designation	L	H	ØD
BBT30-D32-L225	235	210	32
BBT40-D50-L350	350	320	50
BBT50-D50-L350	350	309	

SK

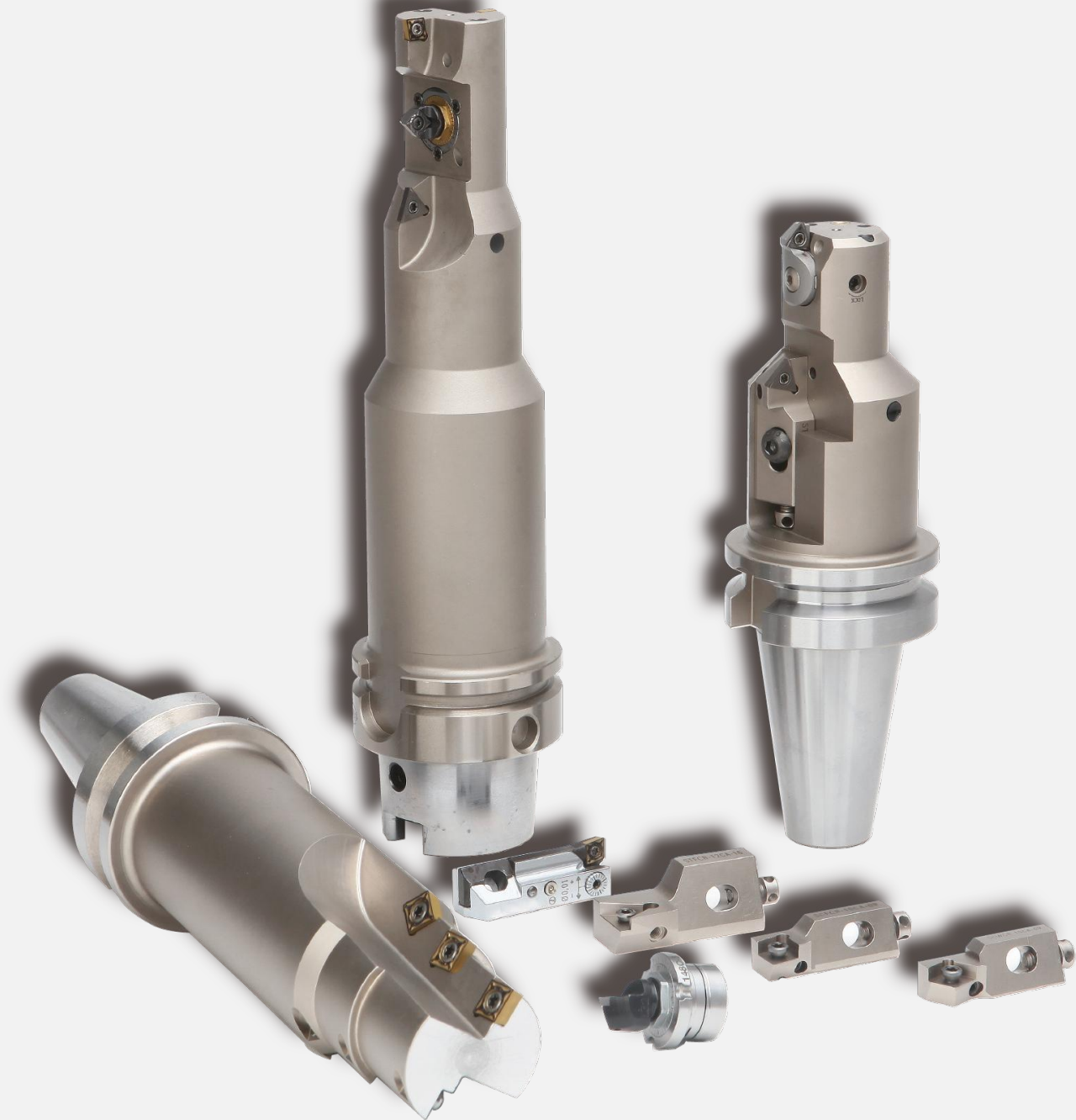


Designation	L	H	ØD
SK40-D50-L350	350	320	50
SK50-D50-L350	350	328	

HSK-A

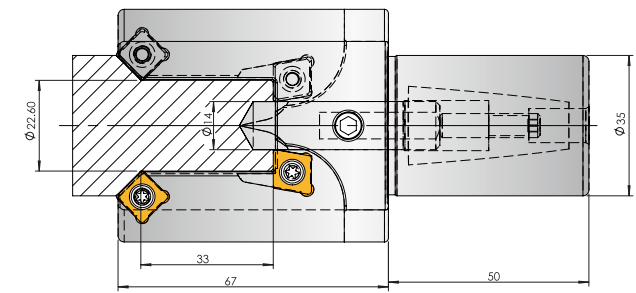


Designation	L	H	ØD
HSK40A-D32-L180	180	157	32
HSK50A-D32-L240	240	211	
HSK63A-D50-L350	350	321	50
HSK100A-D50-L350	350	318	

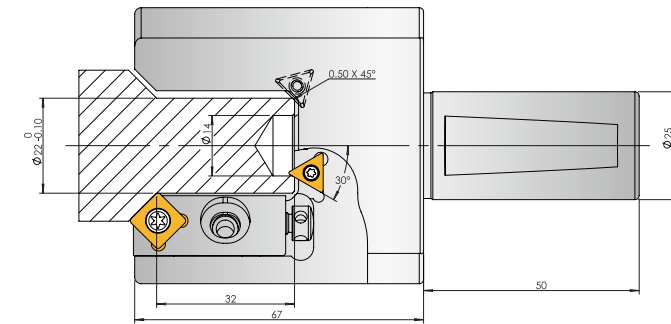


TOOLING SYSTEM

Compressor cylinder block, rough sleeve, excircle, flat end face and centering hole

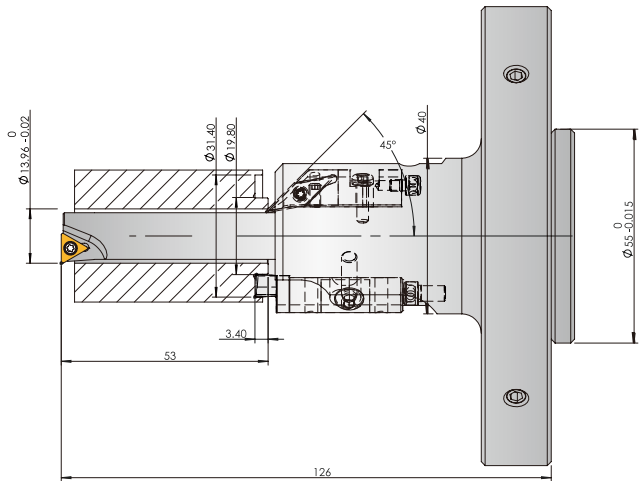


Compressor cylinder block,outer sleeve and inside and outside chamfer

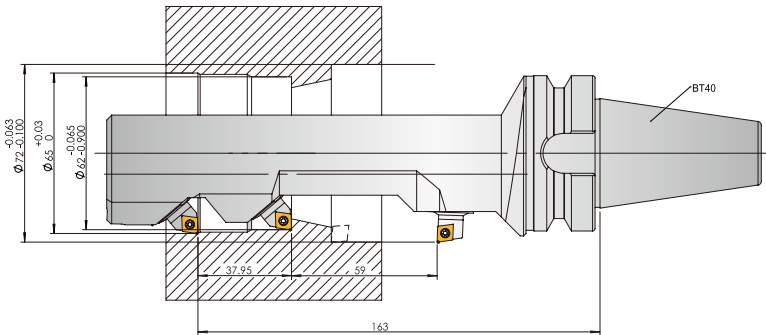


Technical drawing of a shaft assembly. The shaft has a total length of 135. The left end has a diameter of $\varnothing 44.00$. The main body has a diameter of $\varnothing 54$. The right end has a tapered section with a diameter of $\varnothing 61.00$ and a label "BT50". Three yellow warning symbols (radiation symbols) are located on the shaft, with dimensions 19.70 and 17.32 indicating their positions. The shaft is shown in cross-section with hatching.

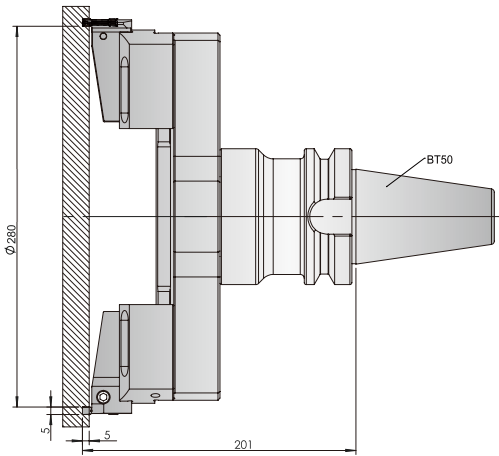
The crankshaft hole on the compressor cylinder, chamfer and groove face scraping fine



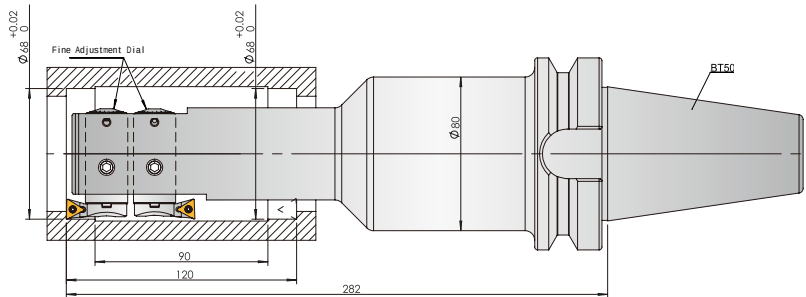
A high degree of positive and negative cross section holes with high concentricity



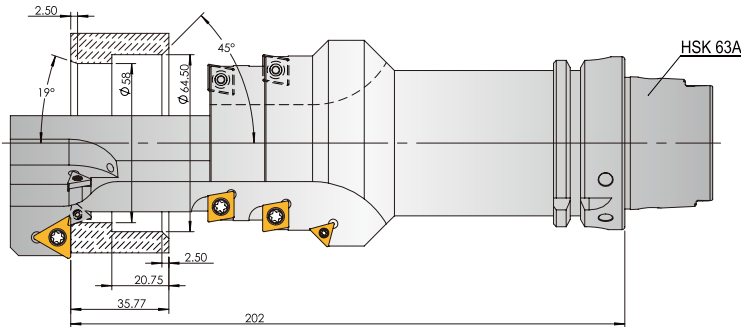
Machining of large diameter end face groove



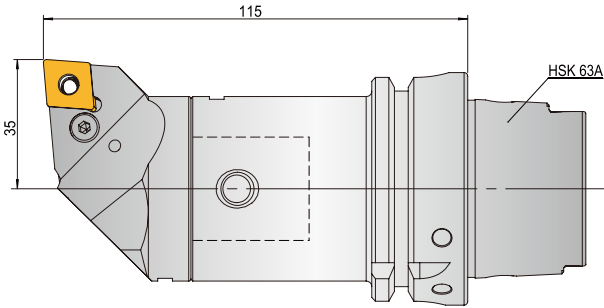
Reverse and positive step holes with high concentricity required for finishing



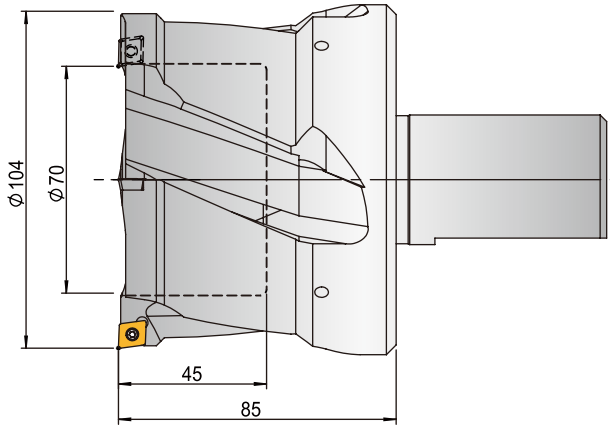
And with the end milling,rough boring chamfering compound



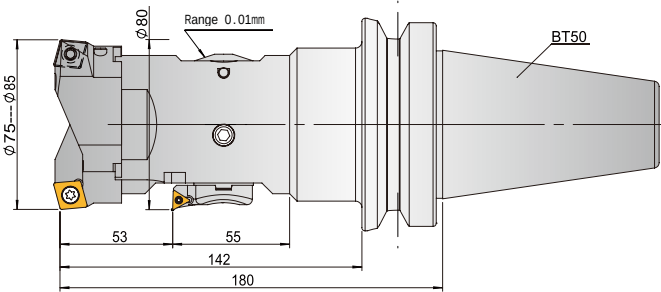
Cutter for compound machining machine



Slot knife for elevatorindustry

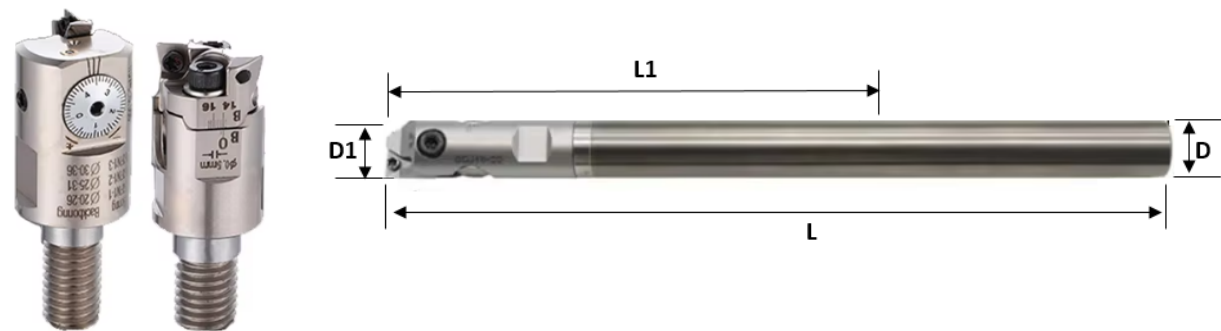


Coarse fine boring one type adjustable boring tool
Ajustable Boring Tool Integrated with Counter Bore



TOOLING SYSTEM

SMALL BORE BORRING TOOL SERIES



Model	Processing range	Fit the handle	D	D1	L	L1	Insert
HWJ8-9W120-80	8-9	Strong, ER hydraulic	Ø 7	Ø 7.3	120	80	TPGT0601
HWJ8-9G90-42	8-9	Strong, ER hydraulic	Ø 10	Ø 7.3	90	43	TPGT0601
HWJ10-12W137-100	10-12	Strong, ER hydraulic	Ø 9	Ø 9.3	137	100	TPGE0902 TPGH0902
HWJ10-12G100-58	10-12	Strong, ER hydraulic	Ø 10	Ø 9.3	100	58	TPGE0902 TPGH0902
HWJ12-14W134-94	12-14	Strong, ER hydraulic	Ø 11	Ø 11	134	94	TPGE0902 TPGH0902
HWJ12-14G120-50	12-14	Strong, ER hydraulic	Ø 12	Ø 11	120	50	TPGE0902 TPGH0902
HWJ14-17W162-123	14-17	Strong, ER hydraulic	Ø 13	Ø 13	162	123	TPGE0902 TPGH0902
HWJ14-17G130-95	14-17	Strong, ER hydraulic	Ø 14	Ø 13	130	95	TPGE0902 TPGH0902
HWJ16-21W192-150	16-21	Strong, ER hydraulic	Ø 15	Ø 15	192	150	TPGE0902 TPGH0902
HWJ16-21G140-100	16-21	Strong, ER hydraulic	Ø 16	Ø 15	140	100	TPGE0902 TPGH0902
HWJ20-28G155-102	20-28	Strong, ER hydraulic	Ø 25	Ø 19	155	102	TPGE0902 TPGH0902

- * Small aperture, large depth
- * Boring head calibration is clear
- * High accuracy of boring is 0.01mm for each moving grid
- * Simple operation, cutting precision and higher efficiency
- * Wide processing range

TOOLING SYSTEM

Slot knife for elevatorindustry