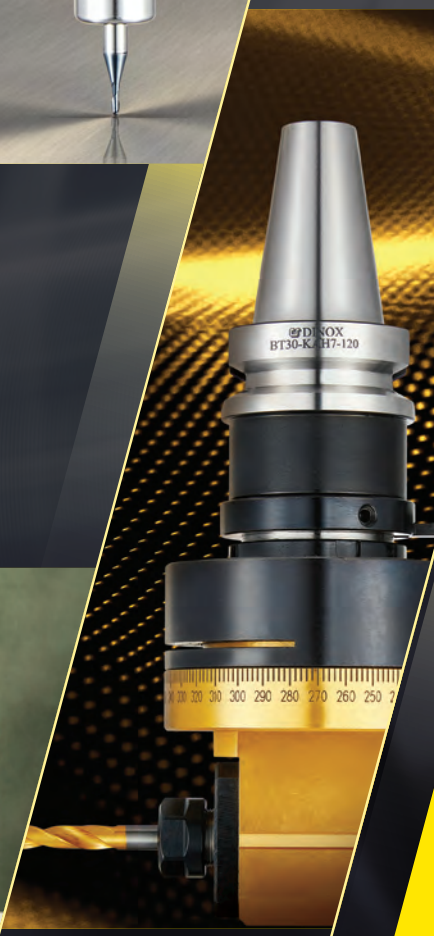
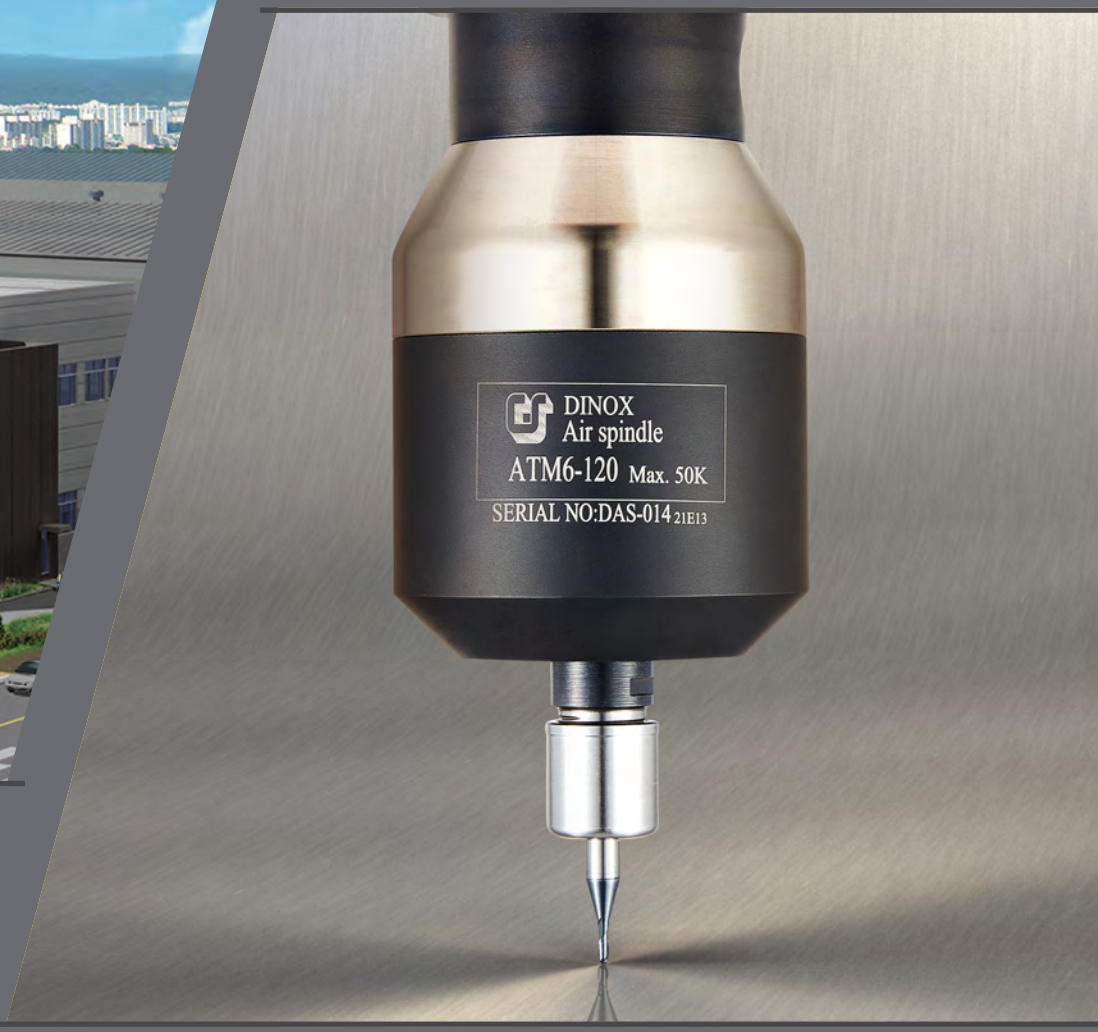
2022 DINOX NEW PRODUCTS



DINE
DINE GROUP

OUR COMPANY

DINE Inc. makes a better world with it's technologies and quality in addition to customer confidence. We will do our best to supply excellent products to our customers, contribute to the development of the automobile, electronics, machinery, and plant industries, and let the whole world know the superiority of Korean tools through exports to various countries across the world.



CONTENTS

ATM Air Turbine Machine_Air Spindle

The air spindle is able to rotate at a high speed (50,000 RPM) using compressed air, and realize performance the same as that of a high-speed processor even in a standard (conventional) machining center.

Features

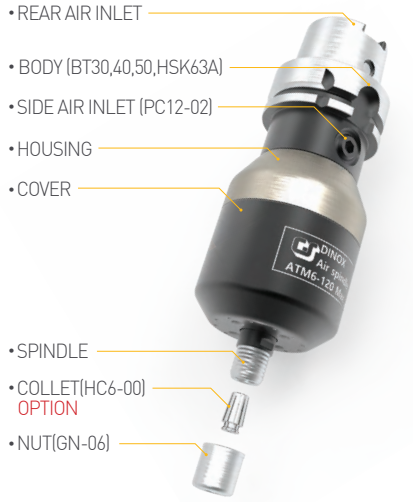
- Used for low-slotting high-transfer processing of small tools, and is able to reduce the processing time by around 30% compared to normal processing
- Since it generates almost no heat, long-term processing is possible without rest time
- Even if a processing load occurs and the spindle stops, no problem occurs in the product
- Super-precision compressed air driving spindle technology is applied

DESIGNATION

BT50	–	ATM	6	–	228	ATC
Spindle		Air Turbine Machine	Tool Dia.		Length	ATC Auto Tool Change Type NON General

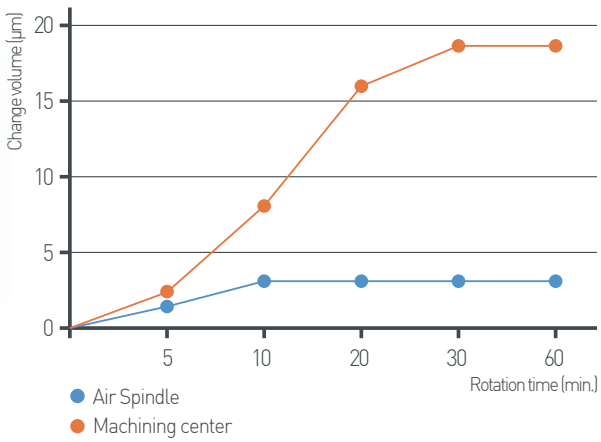
Structure

| Air Spindle



Thermal Deformation Protection

- It prevents an increase in temperature of the spindle using an air blade rotation method
- Prevents the deformation of the Z-axis by thermal deformation of the spindle



Max RPM	Run-out	Coolant System	Collet size	Air Pressure	Power
50,000	5 ㎛	C	1mm~6mm	General : 2 Bar / ATC : 2.5 Bar	0.47 HP
	※ Based on spindle			※ Based on regulator	

General Type

Rear air INLET

How to use
- Use in an equipment able to spray air on the main axis
- Able to perform ATC as there is no external air hose to be connected

Precautions
- When spraying the air on the main axis, be careful about introduction of foreign substances like oil

Air regulator

How to use
- Connect an external air hose
- Connect it directly to the regulator and minimize the introduction of foreign substances

Precautions
- Must separate the hose from the product in case of ATC
- Be careful when the main axis rotates

Auto Tool Change Type

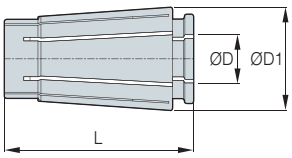
ATC

How to use
- It is able to perform ATC and equipment rotation even on equipment with no air main axis penetration, so it can be automated
- The air is supplied on the Positioning Block, so ATC and equipment spindle rotation is possible
- The main axis can rotate at a low-speed, and the tool length can be corrected

Basic Components_Spare Part

Components	AIR SPINDLE	AIR REGULATOR	PC 12-03	SPANNER
Images				
Quantity	1	1	2	1

Optianal Components

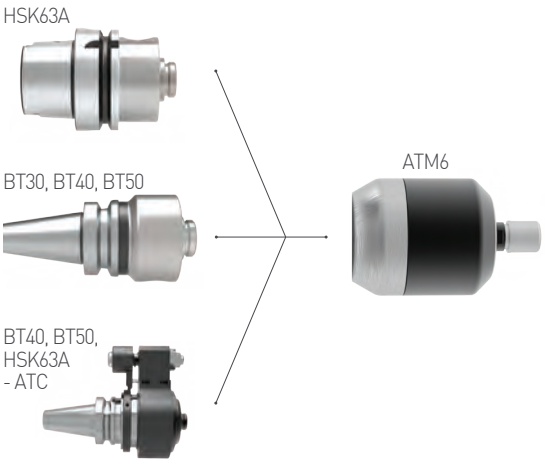


HC Collet				
Designation	ØD1	L	MAX.ØD	Clearance
HC6ØD(P)	10.5	25.0	6.0	1.0

Positioning block

ATM Air Turbine Machine_Air Spindle

Shank-compatible



Air spindle has a shank and a body in a prefabricated shape, so the shank (BT30, 40, 50, HSK63A) can be easily applied to other equipment as well.

Auto Tool Change Type

1 Positioning Block
2 External air supply hole of 6 bar or lower

Specifications	ATM6	Air pressure (of regulator)	2.5 bar or lower
Speed (rpm)	50,000		
Power (hp)	0.47	Spindle internal diameter vibration	5μm
Collet Size	1mm~6mm	Noise	80 dB or lower

Processing Test

Processing test 1 – Comparison Test

Equipment	Air Spindle (HSK63A-ATM6-170)	Machining Center (Hydraulic Chuck)
Processing materials	SCM440 (Hrc 40)	SCM440 (Hrc 40)
Rotation speed	50,000 RPM	20,000 RPM
Processing time	146 min.	276 min.
Axial-directional displacement	5 μm	21 μm
Processed surface		Scratches generated
Remarks	Improved processing speed and surface roughness	Lowered surface roughness and tool life

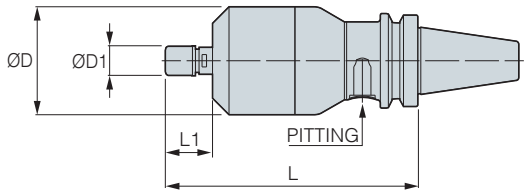
Processing Test 2 – Drill Processing

Processing materials		AL6061
TOOL		HSS D1.0 DRILL
Processing conditions	RPM	50,000
	Feed	400
	Depth (mm)	12
	STEP (mm)	0.5
	Air pressure	2.2 bar (Regulator pressure gauge)

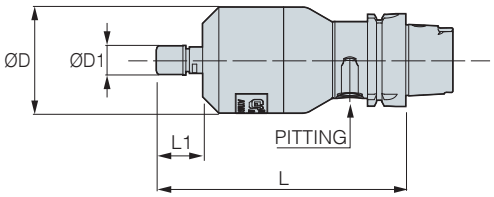
Material	HOLDER	ENDTOOL	Drill abrasion	Remarks
AL6061	HSK63A -ATM6 -170	HSS ST1.0×10	Workpiece	Total hole processing quantity of 5,952 holes Processing time 23H 27M

General Type

| Fig 1.



| Fig 2.

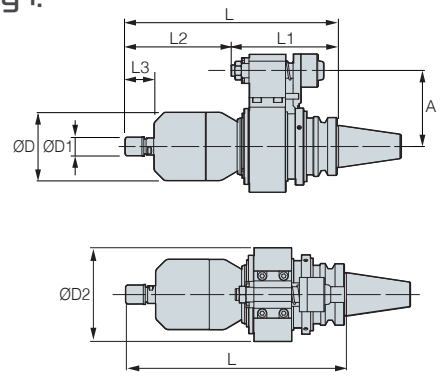


This product does not support the internal coolant system.

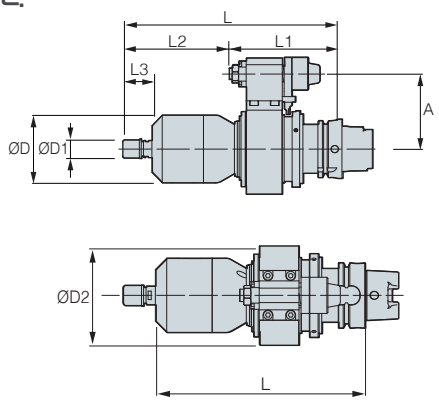
Designation	ØD	ØD1	L	L1	RPM (based on 2 bar of regulator)	Pitting	Fig
BT30-ATM6-176	72	19.5	176	31.5	MAX. 50,000	PC12-02	Fig.1
BT40-ATM6-171	72	19.5	171	31.5	MAX. 50,000	PC12-02	Fig.1
BT50-ATM6-182	72	19.5	182	31.5	MAX. 50,000	PC12-02	Fig.1
HSK63A-ATM6-170	72	19.5	170	31.5	MAX. 50,000	PC12-02	Fig.2

Air Spindle ATC Type

| Fig 1.



| Fig 2.



This product does not support the internal coolant system.

Designation	ØD	ØD1	ØD2	L	L1	L2	L3	A	RPM (based on 2.5 bar of regulator)	Fig.
BT40-ATM6-227(ATC)	72	19.5	96	227	114	113	32	80	MAX. 50,000	Fig.1
BT50-ATM6-228(ATC)	72	19.5	96	228	115	113	32	80	MAX. 50,000	Fig.1
HSK63A-ATM6-235(ATC)	72	19.5	96	235	122	113	32	80	MAX. 50,000	Fig.2

TEH Tap Extension Holder

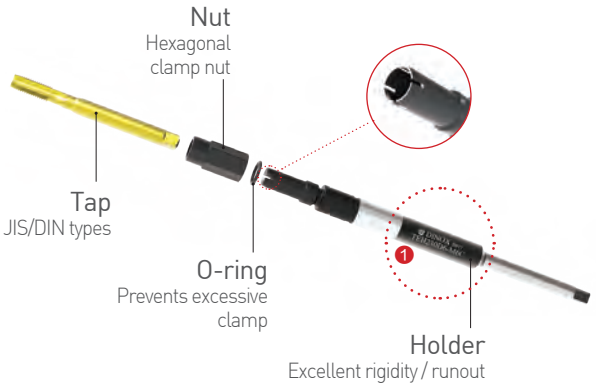
Features

- Product specialized for processing deep, narrow hole taps
- Excellent rigidity and stable runout thanks to a short incision unit
- Excellent economic efficiency in comparison with the general long tap
- Prevention of over clamping thanks to applied O-ring
- Optimized for processing narrow, deep holes such as the hole of an engine

DESIGNATION

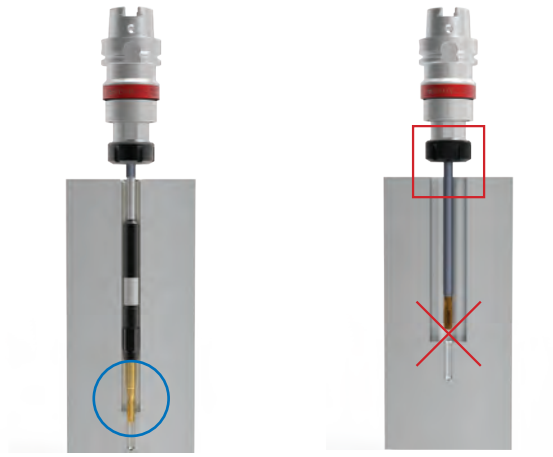
TEH	230	D6	J	–	M6	C
Tap Extension Holder	Length	Shank Dia.	J : JIS NON : DIN		Tap Size	C : Coolant NON : General

Structure



❶ TEH230D10-M10_Tap Extension Holder		
Full length	END TOOL Ø / TEH SHANKØ	Tap size
230	D10	M10

Processing of Deep Holes



[TEH]
Processing O

[General long tap]
No processing X

Full length comparison	TEH	General long tap
M10	230mm	150mm
M22	330mm	200mm

› Since the full length is longer than that of the general long tap, it is favorable for processing narrow, deep holes.

Coolant System C | Tapping

TEH Setting Method

1 DST
High speed synchro tapping chuck

2 TER Collet

3 TEH
Tap Extension Holder

4 Tap
(M4~M22)

Processing Example

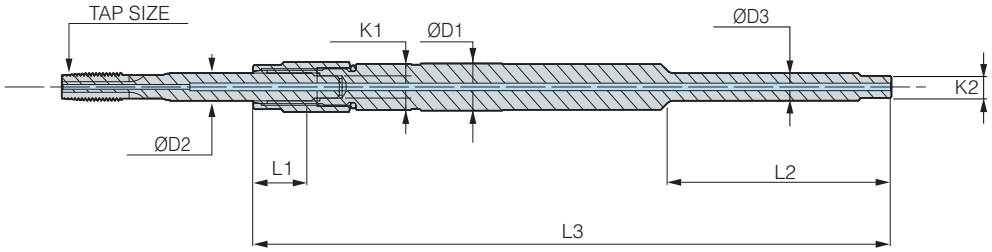
Processing speed and cycle	TOOL	Material	TAP	Number of processing holes	Results
V=10 / S=144 Uses rigid tap cycle	HSK63A-SDC20-130 + TEH230D18-M22C	S45C	M22 × 2.5	50 holes	Good

Processing speed and cycle	TOOL	Material	TAP	Number of processing holes	Results
V=30 S=955	HSK63A-DST22-130 + TEH230D10-M10C	AL6061	M10 × 1.5	120 holes	Good

TEH Tap Extension Holder

Specifications (SPEC/JIS)

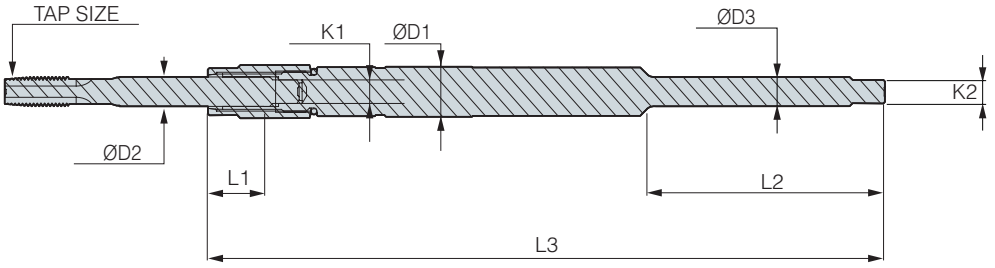
| Coolant type



C Internal coolant system.

Designation (JIS Specifications)	Tap size	L1	L2	L3	ØD1	ØD2	ØD3	K1	K2	Nut external diameter Ø
TEH230D6J-M6C	M6	23	50	230	12	6	6	4.5	4.5	13.9
TEH230D6.2J-M8C	M8	24	65	230	12	6.2	6.2	5	5	13.9
TEH230D7J-M10C	M10	24	65	230	13	7	7	5.5	5.5	15
TEH230D8.5J-M12C	M12	28	65	230	14	8.5	8.5	6.5	6.5	16
TEH330D10.5J-M14C	M14	33	70	330	16	10.5	10.5	8	8	18
TEH330D12.5J-M16C	M16	34	70	330	18	12.5	12.5	10	10	20
TEH330D14J-M18C	M18	35	70	330	20	14	14	11	11	22
TEH330D15J-M20C	M20	36	75	330	21	15	15	12	12	23
TEH330D17J-M22C	M22	36	75	330	23	17	17	13	13	26

| Non-coolant type

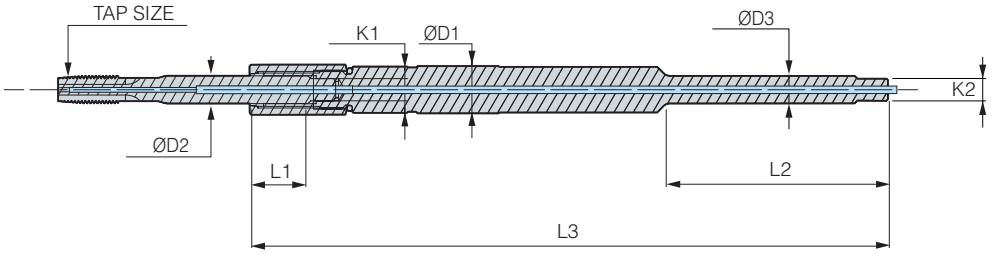


C This product does not support the internal coolant system.

Designation (JIS Specifications)	Tap size	L1	L2	L3	ØD1	ØD2	ØD3	K1	K2	Nut external diameter Ø
TEH230D5J-M4	M4	23	50	230	11	5	6	4	4.5	12.7
TEH230D6J-M6	M6	23	50	230	12	6	6	4.5	4.5	13.9
TEH230D6.2J-M8	M8	24	65	230	12	6.2	6.2	5	5	13.9
TEH230D7J-M10	M10	24	65	230	13	7	7	5.5	5.5	15
TEH230D8.5J-M12	M12	28	65	230	14	8.5	8.5	6.5	6.5	16
TEH330D10.5J-M14	M14	33	70	330	16	10.5	10.5	8	8	18
TEH330D12.5J-M16	M16	34	70	330	18	12.5	12.5	10	10	20
TEH330D14J-M18	M18	35	70	330	20	14	14	11	11	22
TEH330D15J-M20	M20	36	75	330	21	15	15	12	12	23
TEH330D17J-M22	M22	36	75	330	23	17	17	13	13	26

Specifications(SPEC/DIN)

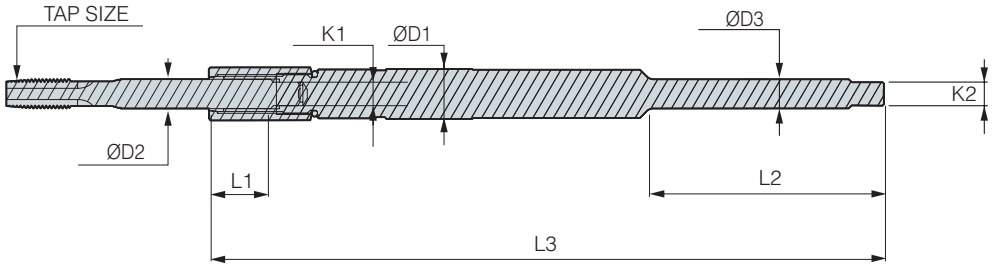
| Coolant type



C Internal coolant system.

Designation (JIS Specifications)	Tap size	L1	L2	L3	ØD1	ØD2	ØD3	K1	K2	Nut external diameter Ø
TEH230D6-M6C	M6	25	50	230	12	6	7	4.9	5.5	13.9
TEH230D8-M8C	M8	29	65	230	14	8	8	6.2	6.2	16
TEH230D10-M10C	M10	32	65	230	16	10	10	8	8	18
TEH230D9-M12C	M12	30	65	230	15	9	9	7	7	17
TEH330D11-M14C	M14	35	70	330	17	11	11	9	9	19
TEH330D12-M16C	M16	35	70	330	18	12	12	9	9	20
TEH330D14-M18C	M18	39	70	330	20	14	14	11	11	22
TEH330D16-M20C	M20	40	75	330	22	16	16	12	12	24
TEH330D18-M22C	M22	43	75	330	24	18	18	14.5	14.5	26

| Non-coolant type



C This product does not support the internal coolant system.

Designation (JIS Specifications)	Tap size	L1	L2	L3	ØD1	ØD2	ØD3	K1	K2	Nut external diameter Ø
TEH230D4.5-M4	M4	21	50	230	10.5	3.4	6	3.4	4.5	11.5
TEH230D6-M6	M6	25	50	230	12	6	7	5.5	5.5	13.9
TEH230D8-M8	M8	29	65	230	14	8	8	6.2	6.2	16
TEH230D10-M10	M10	32	65	230	16	10	10	8	8	18
TEH230D9-M12	M12	30	65	230	15	9	9	7	7	17
TEH330D11-M14	M14	35	70	330	17	11	11	9	9	19
TEH330D12-M16	M16	35	70	330	18	12	12	9	9	20
TEH330D14-M18	M18	39	70	330	20	14	14	11	11	22
TEH330D16-M20	M20	40	75	330	22	16	16	12	12	24
TEH330D18-M22	M22	43	75	330	24	18	18	14.5	14.5	26

SDC/PL Precision Collet Chuck (Length adjustment type)

It adds a tool length adjustment function for the collet chuck, and reduces the tool setting time of the end user, thereby increasing convenience.

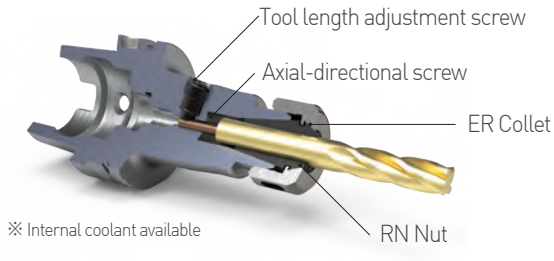
Features

- It applies length-adjustable parts to the collet chuck and reduces tool setting time for the user
- The length can be adjusted precisely

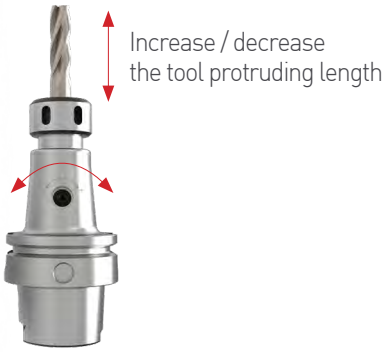
DESIGNATION

BT40	–	SDC	16	P	L	–	130
Spindle		Collet chuck	Tool Dia.	Precision	Length Adjustment		Length

Structure



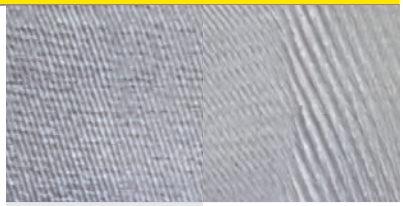
How to Adjust the Length



※ Rotate the tool length adjustment screw and control the length of the tool

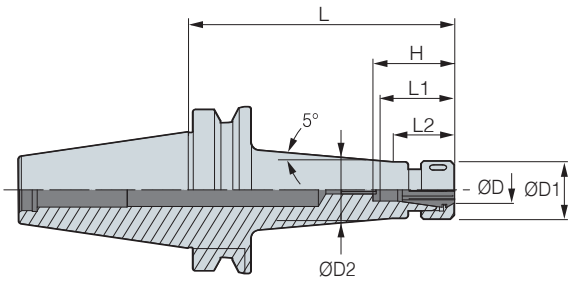
Processing Test

WORK	MATERIAL	S45C
CUTTING CONDITION	V (m/min)	60
	F (mm/t)	0.05
	Ap (mm)	40
	Coolant	External cutting oil
	Processing distance (mm)	20

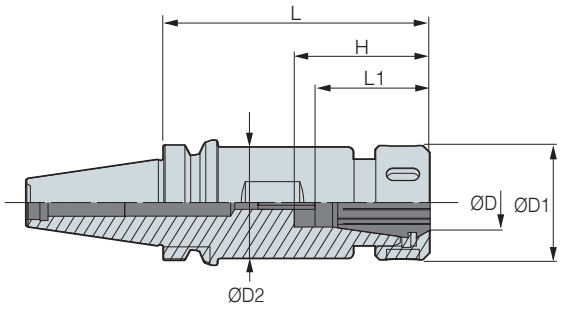
Cutting depth (mm)	SDC/PL	General collet chuck
0.8mm		
	• Ra:1.058μm • Rz:6.354μm • Rt:8.307μm	• Ra:1.110μm • Rz:6.078μm • Rt:8.895μm • Great noise generated • Cannot process

Specifications (BT-SDC/PL)

| Fig 1.



| Fig 2.



C Internal coolant system optional

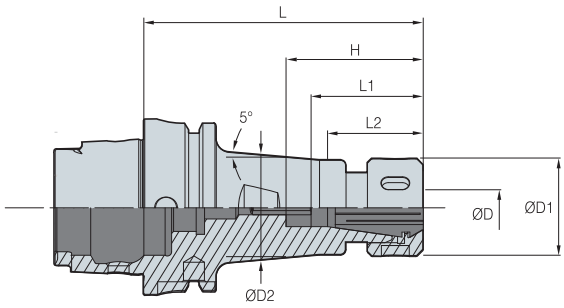
*L1: Adjustable length range *L2: 5° Taper starting point

Designation	ØD	L	ØD1	ØD2	H	*L1	*L2	COLLET/STEP	Fig
BT30-SDC13PL-100	1.0~13.0	100	35	34	49	39~49	37	GERC20/1.0	1
BT30-SDC16PL-100	1.0~16.0	100	42	41	50	40~50	-	GERC25/1.0	2
BT30-SDC20PL-120	1.0~20.0	120	50	49	60	50~60	-	GERC32/1.0	2
BT40-SDC13PL-90	1.0~13.0	90	35	34	49	39~49	37	GERC20/1.0	1
BT40-SDC13PL-130	1.0~13.0	130	35	34	49	39~49	37	GERC20/1.0	1
BT40-SDC13PL-150	1.0~13.0	150	35	34	49	39~49	37	GERC20/1.0	1
BT40-SDC16PL-90	1.0~16.0	90	42	41	50	40~50	37	GERC25/1.0	1
BT40-SDC16PL-130	1.0~16.0	130	42	41	50	40~50	57	GERC25/1.0	1
BT40-SDC20PL-130	1.0~20.0	130	50	49	60	50~60	58	GERC32/1.0	1
BT40-SDC20PL-150	1.0~20.0	150	50	49	60	50~60	68	GERC32/1.0	1
BT50-SDC13PL-100	1.0~13.0	100	35	34	49	39~49	37	GERC20/1.0	1
BT50-SDC13PL-130	1.0~13.0	130	35	34	49	39~49	37	GERC20/1.0	1
BT50-SDC13PL-160	1.0~13.0	160	35	34	49	39~49	37	GERC20/1.0	1
BT50-SDC13PL-180	1.0~13.0	180	35	34	49	39~49	37	GERC20/1.0	1
BT50-SDC16PL-100	1.0~16.0	100	42	41	50	40~50	37	GERC25/1.0	1
BT50-SDC16PL-160	1.0~16.0	160	42	41	50	40~50	67	GERC25/1.0	1
BT50-SDC20PL-130	1.0~20.0	130	50	49	60	50~60	52	GERC32/1.0	1
BT50-SDC20PL-160	1.0~20.0	160	50	49	60	50~60	67	GERC32/1.0	1
BT50-SDC20PL-180	1.0~20.0	180	50	49	60	50~60	77	GERC32/1.0	1
BT50-SDC26PL-160	1.0~26.0	160	63	62	71	61~71	68	GERC40/1.0	1

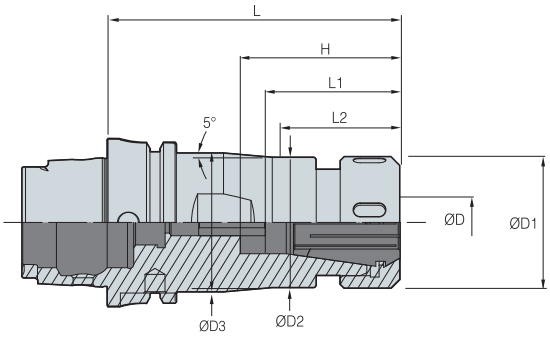
SDC/PL Precision Collet Chuck (Length adjustment type)

Detailed Specifications (HSK-SDC/PL)

| Fig 1.



| Fig 2.



C Internal coolant system optional

*L1: Adjustable length range *L2: 5° Taper starting point

Designation	ØD	L	ØD1	ØD2	ØD3	H	*L1	*L2	COLLET/STEP	Fig.
HSK63A-SDC13PL-100	1.0~13.0	100	35	34	-	49	39~49	37	GERC20/1.0	1
HSK63A-SDC16PL-100	1.0~16.0	100	42	41	-	50	40~50	43	GERC25/1.0	1
HSK63A-SDC20PL-100	1.0~20.0	110	50	49	52	60	50~60	48	GERC32/1.0	2
HSK100A-SDC16PL-110	1.0~16.0	110	42	41	-	50	40~50	46	GERC25/1.0	1
HSK100A-SDC20PL-120	1.0~20.0	120	50	49	-	60	50~60	52	GERC32/1.0	1

DBH Digital Boring Head

A stable boring tool which is able to precisely realize adjustment through an optimal sensor capable of precisely measuring displacement and a digital display witha unit of 2 μm, minimize the backlash, and apply a wide range of processing diameters.

Features

- Precise boring processing of Ø6-152 mm – Apply accessories in accordance with processing diameter
- Provision of broad processing areas through adjusting the 3.5 mm of the side of the head
- Realization of display in units of 2 μm through application of optical sensor and precision scale
- Minimization of backlash in accordance with the movement through the direct measurement of displacement in the cartridge in the head
- Maintains balance through the application of the head auto balance block and the balance weight
- To maintain precision balance, apply the HSK63A shank
- Waterproofing of around IP68 is available
- When you press the touch pad for 5+ sec, sets to zero
- Automatically turns off in 30 sec if not used

Functions

Touch Pad
On/zero setting possible

Sensing
Application of optical sensor and 1 μm scale

Balance Block
Application of optical sensor and 1 μm scale

MD Modular
MD63F Modular applied

Cartridge
Adjusts side to 3.5 mm

LCD Display
- Minimum gradation unit of ±Ø2μm
- Tempered glass applied
- Automatically turns off if not operated for 30 sec

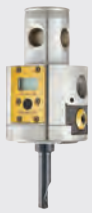
LCD Cover
IP68 Waterproof/dustproof cover applied

DBH Digital Boring Head

Structure

Great compatibility and broad processing diameter range of Ø6–152 mm

Digital Boring Head



- BB16 BITE compatible (Ø6-26)
- Fasten to DBH cartridge upper center hole

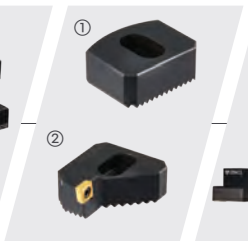
Guide Pin

① Rail 1
② Rail 2

① BCC Cartridge
② Bridge Cartridge

- BCC Cartridge (Ø26-43)
- Bridge Cartridge (Ø43-75)
- Fasten the Guide Pin to DBH cartridge upper center hole and fasten the Rail

Rail 3~5



① Balance Weight
② Bridge Cartridge

- Bridge Cartridge (Ø68-152)
- Keep the balance with Balance Weight
- Fasten the Guide Pin to DBH cartridge upper center hole and fasten the Rail

G value	MIN Range	MAX Range	ADJUST RANGE	Coolant System	Boring
G6.3	Ø6	Ø152	3.5mm	C	

구성 Set

Components	DBH (SET1) Ø6-96	DBH (SET2) Ø6-152	BORING RANGE(Ø)	Applied insert	Remarks
Digital Boring Head	1	1			Battery Type
BB16-5(S)	1	1	Ø6-13		-
BB16-7(S)	1	1	Ø7-14		-
BB16-9(S)	1	1	Ø9-16		-
BB16-11(S)	1	1	Ø11-18		-
BB16-15(S)	1	1	Ø15-22		-
BB16-19(S)	1	1	Ø19-26		-
RAIL 1	1	1	Ø26-43		-
RAIL 2	1	1	Ø43-75		-
RAIL 3	-	1	Ø68-96		-
RAIL 4	-	1	Ø96-124		-
RAIL 5	-	1	Ø124-152	CCMT060200 CCGT060200 CCET060200	-
BCC Cartridge	1	1	-		-
BRIDGE Cartridge	1	1	-		-
Balance Weight	-	1	-		-
Guide Pin	1	1	-		-
BFTX02506N	2	2	-		Screw
BT0308	1	1	-		Screw
BX0414	1	1	-		Bolt
BX0515	5	6	-		Bolt
LW-1.5	1	1	-		L-Wrench
LW-3.0	1	1	-		L-Wrench
LW-4.0	1	1	-		L-Wrench
TRX8	1	1	-		Torx Wrench

※ When using the BB Bite, internal coolant not available

HDG Hydraulic Expansion Chuck Gauge

A measuring tool for identifying issues that may occur due to early lowered clamping force of hydraulic chucks, securing stability, and simply identifying whether the hydraulic chuck's clamping force is normal or not to prevent damage to materials and tools

Features

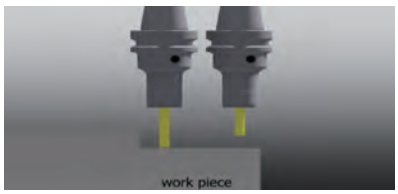
- A gauge for a hydraulic chuck that is able to determine whether the clamping force is normal or not before processing
- Able to minimize the error rate due to lowered clamping force of the hydraulic chuck
- Able to prevent defective processing caused by tool fallout

DESIGNATION

HDG	20
Hydraulic Expansion Chuck Gauge	Tool Dia.

Structure

Importance of Clamping Force

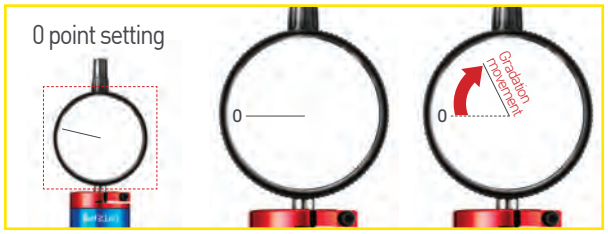


Error occurs in the Z-axis due to tool fallout

Material collision or over cutting

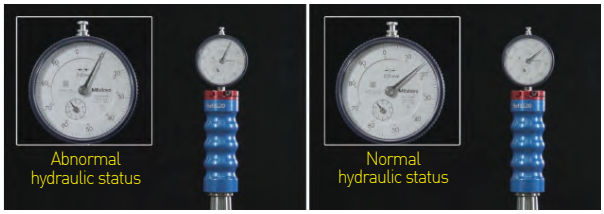
Damage to material / tools or a defect in the dimensions occurs

How to Measure Clamping Force



How to check if the hydraulic chuck is out of order by using HDG

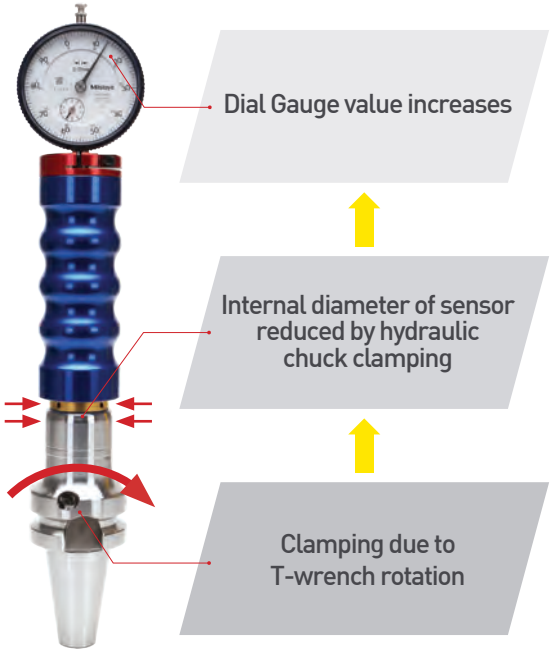
1. Assemble the head fitting the hydraulic chuck's internal diameter with the body
2. Insert into the hydraulic chuck and set to "0" on the dial gauge.
3. After clamping the hydraulic chuck, check if the clamping force of the hydraulic chuck is normal or not based on the movement of the dial gauge.



※ After observing an increased volume, always check the table and determine whether to use the hydraulic chuck or not

※ Not compatible with other companies' hydraulic chucks

Operation



Reference Value for Measuring Clamping Force

Designation	Hydraulic chuck tool dia	Usable range	Inspection range
HDG-6	Ø6	80 μm +	70~80 μm
HDG-7	Ø7	80 μm +	70~80 μm
HDG-8	Ø8	80 μm +	70~80 μm
HDG-9	Ø9	120 μm +	110~120 μm
HDG-10	Ø10	100 μm +	90~100 μm
HDG-12	Ø12	120 μm +	110~120 μm
HDG-14	Ø14	150 μm +	140~150 μm
HDG-16	Ø16	150 μm +	140~150 μm
HDG-18	Ø18	150 μm +	140~150 μm
HDG-20	Ø20	160 μm +	150~160 μm
HDG-25	Ø25	190 μm +	180~190 μm
HDG-32	Ø32	160 μm +	150~160 μm

※ If you cannot reach the area that needs to be inspected, Please send it to DINE A/S center.

KAH BT30 – Angular head(90°type)

90° fixed Angular Head provides various processing areas, which can randomly adjust the processing angles on both sides by 360°, to be used on small equipment.

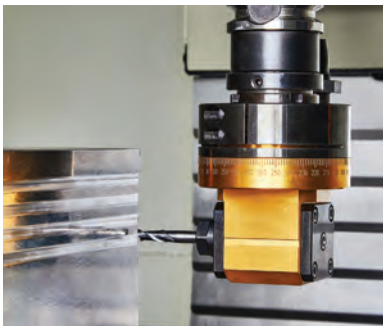
Features

- A small angular head for small equipment (BT30)
- Light weight of 2.6 KG for easy installation
- Available multi-surface processing
- Its processing angle can be freely adjusted by 360° on both sides
- ER11 size collet appllied

DESIGNATION

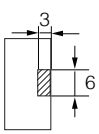
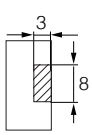
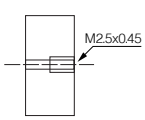
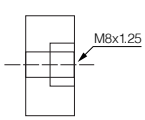
BT30	–	KAH	7	–	120
Spindle		Angular Head	Tool Dia.		Length

Structure (rotation)



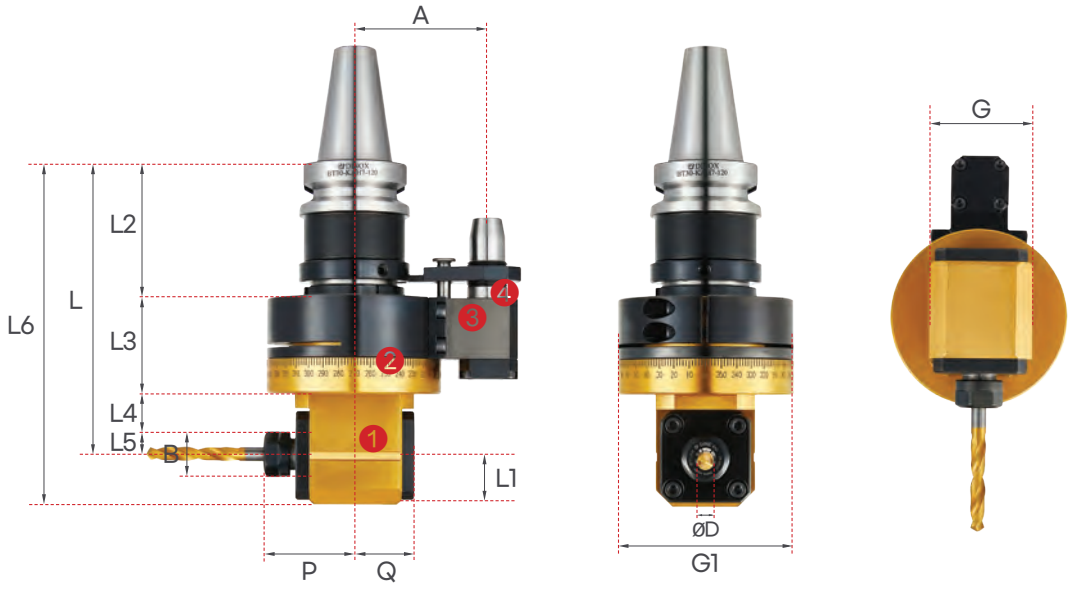
- Uses spiral bevel gear (with axial angle of 90°)
- Reduced vibration and noise
- Small backlash
- Thanks to the use of a 1:1 gear ratio, can use without complex calculations
- Reverse-rotation direction compared to spindle (CW:CCW)

Processing Cases

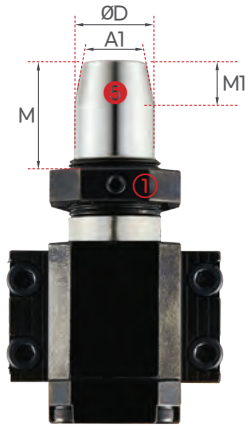
END TOOL	2flute - Ø6 (carbide)	2flute - Ø8 (carbide)	M2.5×0.45	M8×1.25
material	S45C	S45C	AL6061	AL6061
N (rpm)	3,000	3,500	1,000	1,000
Fz (mm/t)	0.04	0.04	0.225	0.625
Vc (m/min)	57	57	8	25
Processing depth (mm)	3	3	7.5	20
F (mm/min)	250	300	450	1,250
END TOOL 도면				

Max RPM	Collet Size	Coolant System
5,000	1mm~7mm	C

Specifications



Positioning Pin



Designation	M	M1	A1	ØD
BT30	Max:23~Min:17	8	20°	15

No.	Name
1	Head
2	Rotary angle division gradation (Can select 360°)
3	Positioning pin
4	Jaw key
5	Height adjustable wrench hole

No.	Part name	Model No.
①	Set screw	BTF0404

Optional

ER / GERC Collet	
ØD	1.0~7.0

Positioning Block

C This product does not support the internal coolant system.

Designation	ØD	L	L1	L2	L3	L4	L5	L6	B	A	P	Q	G	G1	Gear ratio	Max rpm	Applied collet	kg
BT30-KAH7-120	1.0~7.0	120	20	56	39	25	20	140	19	55	37	24.5	40	72	1:1	5,000	GERC11	2.6

DHE Small diameter hydraulic chuck

Features

- Improved precision thanks to clamping by the hydraulic chuck of tools such as small drills and endmills without a collet
- Line up of small diameter hydraulic chucks

DESIGNATION

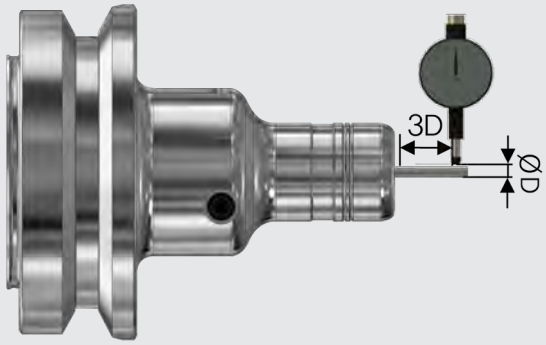
BT30	–	DHE	4	–	65
Spindle		Hydraulic Expansion Chuck	Tool Dia.		Length

Functions

- Strengthened lineup thanks to the application of internal diameter of Ø4,5
- Application of stronger clamping force than that of competitor products

High Precision

- RUN OUT: 5 μm or lower
- L = 3 × ØD



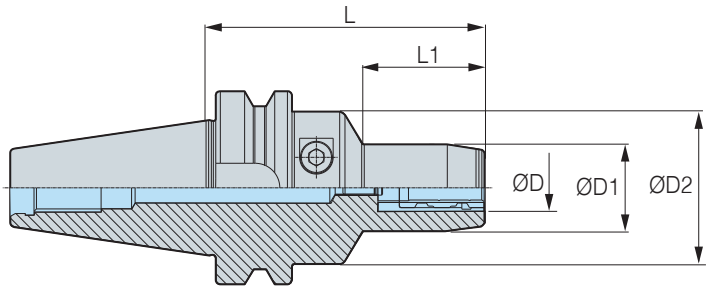
Stable Clamping Force

- Held at two points, so the clamping force and precision are high
- Easily detached with a T-wrench, without a special additional apparatus

G value	Max RPM	Dia	Run-out	Milling	Drilling	Reaming
G6.3	15,000	ø4, ø5	5 ㎛			

Specifications

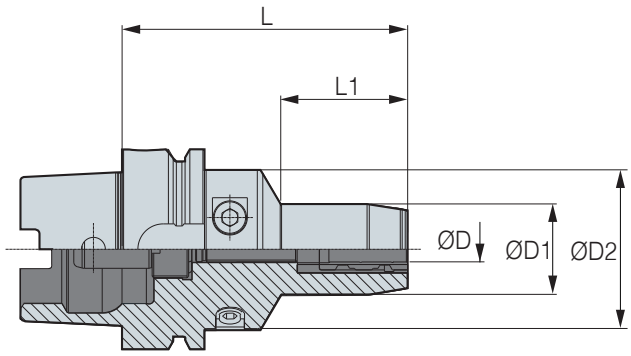
| BT-DHE



C Internal coolant system installed

Designation	ØD	L	ØD1	ØD2	L1
BT30-DHE4-65	4	65	29	46	33
BT30-DHE5-65	5	65	29	46	33
BT40-DHE4-90	4	90	29	50	40
BT40-DHE5-90	5	90	29	50	40
BT50-DHE4-90	4	90	29	50	34
BT50-DHE5-90	5	90	29	50	34

| HSK-DHE



C Internal coolant system optional

Designation	ØD	L	ØD1	ØD2	L1
HSK63A-DHE4-75	4	75	29	50	34
HSK63A-DHE5-75	5	75	29	50	34

DHE SPARE PART

Designation	ClampBolt	Designation	Wrench
BTF1010		DHETW-5	

DX-0822-NP-ENG-V1

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