

DHE

- Hydraulic Expansion Chuck



COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

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ISO Certified

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Hydraulic Expansion Chuck DHE

- Ideal for mold making and machining automobile components & precise parts due to high precision machining
- Improved surface roughness due to vibration proof by hydraulic chamber
- Reduced replacement time and tiredness of worker with the use of T wrench for removal
- Applicable shank diameter: Ø4~32

Technical information for DHE



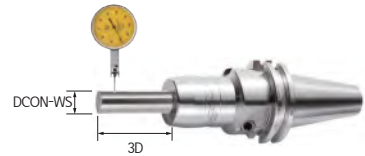
Code system



Features

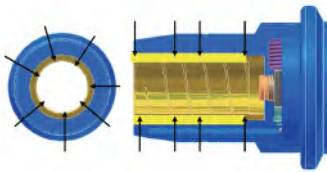
High accuracy provides long tool life due to reduced wear and hydraulic room enhances a surface roughness by lessening vibrations

- Run-out: under 5 µm
- L = 3 x ØD
- Shank: Tolerance of ØD: h6



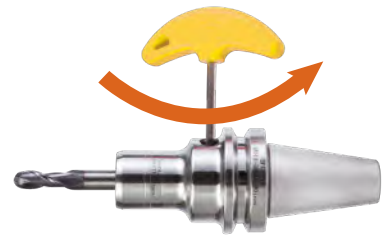
Internal sealing structure (Durability)

- Internal sealing system protects the chuck against dust, cutting oil, lubricant and chips getting into it
- Maintaining clamping force and accuracy for a long time



With simple T-wrench, very easy to change a tool

- Clamping structure for easy operation (Convenience)
- Decrease of worker's fatigue
- Improving machine capacity



Shank	Grade	RPMX
BT50, HSK100A	G6.3	15,000
BT40, HSK63A		20,000
BT30, HSK50A		25,000

Stable clamping

- The clearance between holder and tool is fixed by hydraulic pressure



CAT-DHE

ASME
B5.50-CAT
TaperG 6.3
G Value20,000
Max RPM5µm
T.I.RC
Coolant System
Ready

AD/B

Milling

Drilling

Reaming

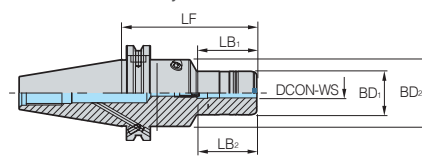


Fig. 1

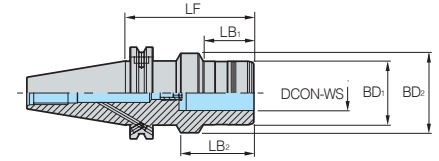


Fig. 2

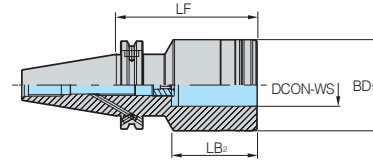


Fig. 3

c Internal coolant system installed

(inch)

	Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ (Metric)	RPMX	Fig.
CAT40B	DHE1/4-3.50	6-01-083445	◆	1/4	3.50	1.14	1.75	1.57	1.57	M5	20,000	1
	DHE3/8-3.50	6-01-083446	◆	3/8	3.50	1.30	1.75	1.57	1.76	M5	20,000	1
	DHE1/2-3.50	6-01-083447	◆	1/2	3.50	1.38	1.97	1.34	2.00	M10	20,000	2
	DHE1/2-6.00	6-01-083448	◆	1/2	6.00	1.38	1.97	1.57	2.00	M10	20,000	2
	DHE5/8-3.50	6-01-083449	◆	5/8	3.50	1.57	1.75	1.77	2.20	M10	20,000	1
	DHE5/8-6.00	6-01-083450	◆	5/8	6.00	1.57	1.97	1.77	2.20	M10	20,000	2
	DHE3/4-3.50	6-01-083451	◆	3/4	3.50	1.73	2.17	1.38	2.31	M10	20,000	2
	DHE3/4-6.00	6-01-083452	◆	3/4	6.00	1.73	2.17	1.97	2.31	M10	20,000	2
	DHE1-4.00	6-01-083453	◆	1	4.00	2.60	-	-	2.67	M16	20,000	3
	DHE1 1/4-4.00	6-01-083454	○	1 1/4	4.00	2.83	-	-	2.67	M16	20,000	3
CAT50B	DHE1/4-3.50	6-01-083455	◆	1/4	3.50	1.14	1.97	1.57	1.57	M5	15,000	1
	DHE3/8-3.50	6-01-083456	◆	3/8	3.50	1.30	1.97	1.57	1.76	M5	15,000	1
	DHE1/2-3.50	6-01-083457	◆	1/2	3.50	1.38	1.97	1.57	2.00	M10	15,000	1
	DHE1/2-6.00	6-01-083458	◆	1/2	6.00	1.38	1.97	1.57	2.00	M10	15,000	1
	DHE5/8-3.50	6-01-083459	◆	5/8	3.50	1.57	1.97	1.57	2.20	M10	15,000	1
	DHE5/8-6.00	6-01-083460	◆	5/8	6.00	1.57	2.36	1.77	2.20	M10	15,000	1
	DHE3/4-3.50	6-01-083461	◆	3/4	3.50	1.73	1.97	1.57	2.31	M10	15,000	1
	DHE3/4-6.00	6-01-083462	◆	3/4	6.00	1.73	2.36	1.77	2.31	M10	15,000	1
	DHE1-3.50	6-01-083463	◆	1	3.50	2.60	-	-	2.67	M16	15,000	3
	DHE1 1/4-3.50	6-01-083464	○	1 1/4	3.50	2.83	-	-	2.67	M16	15,000	3

※ Dual contact taper : Made to order

● : Korea stock ◆ : US stock ○ : Made to order

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 3

Parts

Included with the Tool			
Division		Clamp Bolt	Wrench
Designation	Parts		
	CAT 40	BTF1010	DHETW-5
CAT 50	DHE1/4, 3/8, 1/2, 5/8, 3/4	BTF1010	DHETW-5
	DHE1, 1 1/4	BTF1212-1.5	DHETW-6

DBT-DHE

DBT

Taper

G 6.3

G Value

15,000~
25,000

RPMX

5μm

T.I.R

C

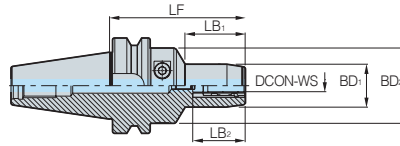
Coolant System
Ready

Fig. 1

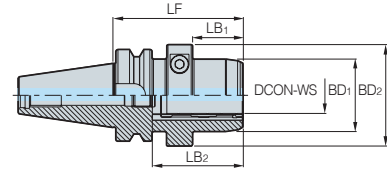


Fig. 2

c Internal coolant system installed

(mm)

				Table 1											
Designation				K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	Fig.	kg
DBT30-	DHE6-65	6-01-021695	○	6	65	29	46	33	30~40	M5	25,000	1	0.7		
	DHE8-65	6-01-021696	○	8	65	31	46	33	30~40	M5	25,000	1	0.7		
	DHE10-65	6-01-039752	○	10	65	32	46	34	35~45	M5	25,000	1	0.7		
	DHE12-70	6-01-085486	○	12	70	35	46	34	41~51	M5	25,000	1	0.8		
	DHE14-90	6-01-082587	○	14	90	36	46	40	43~53	M5	25,000	1	1.0		
	DHE16-90	6-01-082588	○	16	90	40	46	45	46~56	M5	25,000	1	1.0		
	DHE18-90	6-01-082589	○	18	90	42	46	40	49~59	M5	25,000	1	1.1		
	DHE20-90	6-01-027723	○	20	90	44	46	45	49~59	M5	25,000	1	1.1		
DBT40-	DHE6-90	6-01-029060	○	6	90	29	50	40	30~40	M5	20,000	1	1.4		
	DHE6-140	6-01-082611	○	6	140	29	50	40	30~40	M5	20,000	1	2.2		
	DHE8-90	6-01-024143	○	8	90	31	50	40	30~40	M5	20,000	1	1.4		
	DHE8-140	6-01-082612	○	8	140	31	50	40	30~40	M5	20,000	1	2.2		
	DHE10-90	6-01-025174	○	10	90	33	50	40	35~45	M5	20,000	1	1.5		
	DHE10-140	6-01-082606	○	10	140	33	50	40	35~45	M5	20,000	1	2.2		
	DHE12-90	6-01-019011	○	12	90	35	50	40	41~51	M10	20,000	1	1.5		
	DHE12-140	6-01-082607	○	12	140	35	50	40	41~51	M10	20,000	1	2.3		
	DHE14-90	6-01-030614	○	14	90	36	50	40	43~53	M10	20,000	1	1.5		
	DHE14-140	6-01-082608	○	14	140	36	50	40	43~53	M10	20,000	1	2.2		
	DHE16-90	6-01-019012	○	16	90	40	50	45	46~56	M10	20,000	1	1.5		
	DHE16-140	6-01-082609	○	16	140	40	50	45	46~56	M10	20,000	1	2.2		
	DHE18-90	6-01-035426	○	18	90	42	50	45	49~59	M10	20,000	1	1.5		
	DHE18-140	6-01-082610	○	18	140	42	50	45	49~59	M10	20,000	1	2.2		
	DHE20-90	6-01-019014	○	20	90	44	50	47	49~59	M10	20,000	1	1.5		
	DHE20-140	6-01-019013	○	20	140	44	50	50	49~59	M10	20,000	1	2.3		
	DHE25-90	6-01-024142	○	25	90	50	50	35	58~68	M16	20,000	2	2.0		
	DHE32-90	6-01-019015	○	32	90	63	50	35	58~68	M16	20,000	2	2.3		
DBT50-	DHE6-90	6-01-082632	○	6	90	29	50	34	30~40	M5	15,000	1	3.9		
	DHE6-140	6-01-082631	○	6	140	29	50	40	30~40	M5	15,000	1	4.5		
	DHE8-90	6-01-025207	○	8	90	31	50	34	30~40	M5	15,000	1	4.2		
	DHE8-140	6-01-082633	○	8	140	31	50	40	30~40	M5	15,000	1	4.6		
	DHE10-90	6-01-025202	○	10	90	33	50	34	35~45	M5	15,000	1	3.9		
	DHE10-140	6-01-082626	○	10	140	33	50	34	35~45	M5	15,000	1	4.5		
	DHE12-90	6-01-025203	○	12	90	35	50	34	41~51	M10	15,000	1	4.0		
	DHE12-140	6-01-081276	○	12	140	35	50	34	41~51	M10	15,000	1	4.6		
	DHE14-90	6-01-081277	○	14	90	36	50	34	43~53	M10	15,000	1	3.9		
	DHE14-140	6-01-082627	○	14	140	36	50	34	43~53	M10	15,000	1	4.5		
	DHE16-90	6-01-025204	○	16	90	40	50	34	46~56	M10	15,000	1	4.1		
	DHE16-140	6-01-082628	○	16	140	40	50	34	46~56	M10	15,000	1	4.7		
	DHE18-90	6-01-082630	○	18	90	42	50	40	49~59	M10	15,000	1	4.0		
	DHE18-140	6-01-082629	○	18	140	42	50	45	49~59	M10	15,000	1	4.5		
	DHE20-90	6-01-025206	○	20	90	44	50	34	49~59	M10	15,000	1	4.2		
	DHE20-140	6-01-025205	○	20	140	44	50	47	49~59	M10	15,000	1	4.5		
	DHE25-90	6-01-030808	○	25	90	66	-	52	58~68	M16	15,000	2	4.7		
	DHE32-90	6-01-027055	○	32	90	72	-	52	58~68	M16	15,000	2	4.8		

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 9

BT-DHE

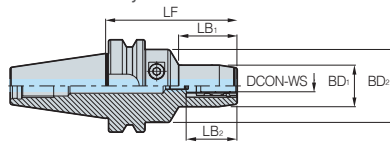


Fig. 1

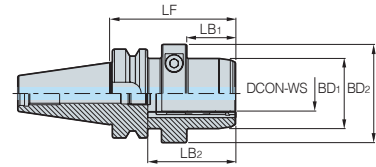


Fig. 2

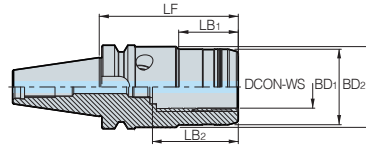


Fig. 3

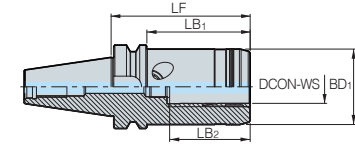


Fig. 4

Internal coolant system installed

(mm)

	Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	Fig.	kg
BT30-	DHE4-65	6-01-079029	○	4	65	29	46	33	40	-	25,000	1	0.7
	DHE5-65	6-01-080536	○	5	65	29	46	33	40	-	25,000	1	0.7
	DHE6-65	6-01-014788	●	6	65	29	46	33	30~40	M5	25,000	1	0.7
	DHE8-65	6-01-011145	●	8	65	31	46	33	30~40	M5	25,000	1	0.7
	DHE10-65	6-01-013399	●	10	65	32	46	34	35~45	M5	25,000	1	0.7
	DHE12-70	6-01-042686	●	12	70	35	46	34	36~46	M5	25,000	1	0.8
	DHE14-90	6-01-034717	●	14	90	36	46	40	43~53	M5	25,000	1	1.0
	DHE16-90	6-01-013713	●	16	90	40	46	45	46~56	M5	25,000	1	1.0
	DHE18-90	6-01-036667	●	18	90	42	46	40	49~59	M5	25,000	1	1.1
	DHE20-90	6-01-020818	●	20	90	44	46	45	49~59	M5	25,000	1	1.1
BT40-	DHE4-90	6-01-079025	○	4	90	29	50	40	40	-	20,000	1	1.4
	DHE5-90	6-01-082507	○	5	90	29	50	40	40	-	20,000	1	1.4
	DHE6-90	6-01-010549	●	6	90	29	50	40	30~40	M5	20,000	1	1.4
	DHE6-140	6-01-017286	●	6	140	29	50	40	30~40	M5	20,000	1	2.2
	DHE8-90	6-01-010550	●	8	90	31	50	40	30~40	M5	20,000	1	1.4
	DHE8-140	6-01-011090	●	8	140	31	50	40	30~40	M5	20,000	1	2.2
	DHE10-90	6-01-010551	○	10	90	33	50	40	35~45	M5	20,000	1	1.5
	DHE10-140	6-01-019217	●	10	140	33	50	40	35~45	M5	20,000	1	2.2
	DHE12-90	6-01-010552	●	12	90	35	50	40	41~51	M10	20,000	1	1.5
	DHE12-140	6-01-014815	○	12	140	35	50	40	41~51	M10	20,000	1	2.3
	DHE14-90	6-01-032742	●	14	90	36	50	40	43~53	M10	20,000	1	1.5
	DHE14-140	6-01-037431	●	14	140	36	50	40	43~53	M10	20,000	1	2.2
	DHE16-90	6-01-010411	●	16	90	40	50	45	46~56	M10	20,000	1	1.5
	DHE16-140	6-01-013951	●	16	140	40	50	45	46~56	M10	20,000	1	2.2
	DHE18-90	6-01-024333	●	18	90	42	50	45	49~59	M10	20,000	1	1.5
	DHE18-140	6-01-045814	●	18	140	42	50	45	49~59	M10	20,000	1	2.2
	DHE20-90	6-01-010412	●	20	90	44	50	47	49~59	M10	20,000	1	1.5
	DHE20-140	6-01-012234	●	20	140	44	50	50	49~59	M10	20,000	1	2.3
	DHE25-90	6-01-010413	●	25	90	50	70	35	58~68	M16	20,000	2	2.0
	DHE25-105	6-01-057879	●	25	105	57	-	78	51~61	M16	20,000	4	2.0
	DHE25-140	6-01-057716	●	25	140	57	-	113	51~61	M16	20,000	4	2.6
	DHE32-90	6-01-010414	●	32	90	63	75	35	58~68	M16	20,000	2	2.3
	DHE32-105	6-01-048402	○	32	105	57	61	45	55~65	M16	20,000	3	2.4
	DHE32-140	6-01-057744	●	32	140	57	61	45	55~65	M16	20,000	3	3.0

※ Dual contact taper : Made to order

This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → **9**

BT-DHE

MAS
403-BT
TaperG 6.3
G Value15,000
RPMX5μm
T.I.RC
Coolant System
Ready

Milling

Drilling

Reaming

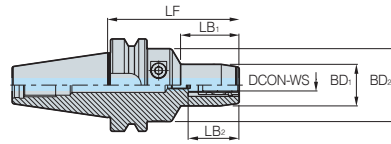


Fig. 1

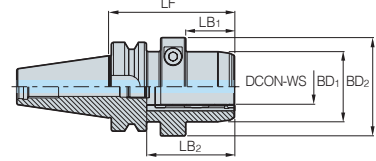


Fig. 2

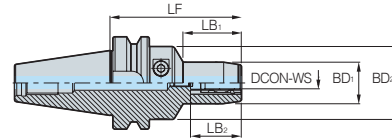


Fig. 3

C Internal coolant system installed

(mm)

Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	Fig.	kg
BT50- DHE4-90	6-01-082517	○	4	90	29	50	34	40	-	15,000	1	3.9
DHE5-90	6-01-082518	○	5	90	29	50	34	40	-	15,000	1	3.9
DHE6-90	6-01-010553	●	6	90	29	50	34	30~40	M5	15,000	1	3.9
DHE6-140	6-01-011134	●	6	140	29	50	40	30~40	M5	15,000	1	4.4
DHE8-90	6-01-010554	●	8	90	31	50	34	30~40	M5	15,000	1	4.2
DHE8-140	6-01-011135	●	8	140	31	50	40	30~40	M5	15,000	1	4.6
DHE10-90	6-01-010555	●	10	90	33	50	34	35~45	M5	15,000	1	3.9
DHE10-140	6-01-011133	●	10	140	33	50	34	35~45	M5	15,000	1	4.5
DHE12-90	6-01-010556	●	12	90	35	50	34	41~51	M10	15,000	1	4.0
DHE12-140	6-01-011162	●	12	140	35	50	34	41~51	M10	15,000	1	4.6
DHE14-90	6-01-025934	●	14	90	36	50	34	43~53	M10	15,000	1	3.9
DHE14-140	6-01-036595	●	14	140	36	50	34	43~53	M10	15,000	1	4.5
DHE16-90	6-01-010557	●	16	90	40	50	34	46~56	M10	15,000	1	4.1
DHE16-140	6-01-013484	●	16	140	40	50	34	46~56	M10	15,000	1	4.7
DHE18-90	6-01-034864	●	18	90	42	50	40	49~59	M10	15,000	1	4.0
DHE18-140	6-01-043169	●	18	140	42	50	45	49~59	M10	15,000	1	4.5
DHE20-90	6-01-010558	●	20	90	44	50	34	49~59	M10	15,000	1	4.0
DHE20-140	6-01-014903	●	20	140	44	50	47	49~59	M10	15,000	1	4.5
DHE25-90	6-01-010415	○	25	90	66	-	52	58~68	M16	15,000	2	4.7
DHE25-150	6-01-057880	●	25	150	57	-	112	51~61	M16	15,000	3	4.5
DHE32-90	6-01-010416	●	32	90	72	-	52	58~68	M16	15,000	2	5.8

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 9

HSK-DHE

DIN
69893-1
TaperG 6.3
G Value20,000
RPMX5μm
T.I.RC
Coolant System

Milling

Drilling

Reaming

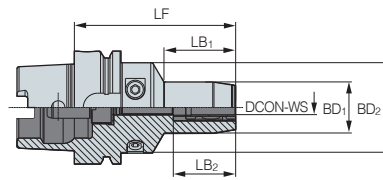


Fig. 1

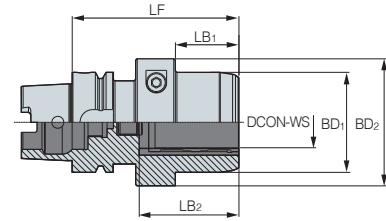


Fig. 2

C Internal coolant system optional

(mm)

Designation				K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	Fig.	kg
HSK50A-	DHE6-70	6-01-019189	○	6	70	29	40	28	30~40	M5	20,000	1	0.7		
	DHE8-70	6-01-019190	○	8	70	31	40	28	30~40	M5	20,000	1	0.7		
	DHE10-80	6-01-019191	○	10	80	33	40	35	35~45	M5	20,000	1	0.8		
	DHE12-90	6-01-019192	○	12	90	35	40	40	41~51	M5	20,000	1	0.8		
	DHE14-95	6-01-082829	○	14	95	36	53	28	43~53	M10	20,000	2	0.8		
	DHE16-95	6-01-019193	○	16	95	40	53	28	46~56	M10	20,000	2	0.9		
	DHE18-100	6-01-082830	○	18	100	42	60	28	49~59	M10	20,000	2	0.9		
	DHE20-100	6-01-019194	○	20	100	44	60	28	49~59	M10	20,000	2	0.9		
HSK63A-	DHE4-75	6-01-082835	○	4	75	29	50	34	40	-	20,000	1	1.0		
	DHE5-75	6-01-082836	○	5	75	29	50	34	40	-	20,000	1	1.0		
	DHE6-75	6-01-014679	●	6	75	29	50	34	30~40	M5	20,000	1	1.0		
	DHE6-150	6-01-019195	○	6	150	29	50	34	30~40	M5	20,000	1	2.2		
	DHE8-75	6-01-019093	●	8	75	31	50	34	30~40	M5	20,000	1	1.0		
	DHE8-150	6-01-019197	○	8	150	31	50	34	30~40	M5	20,000	1	2.2		
	DHE10-85	6-01-016225	●	10	85	33	50	34	35~45	M5	20,000	1	1.2		
	DHE10-150	6-01-019198	○	10	150	33	51	34	35~45	M5	20,000	1	2.2		
	DHE12-90	6-01-014680	●	12	90	35	51	40	41~51	M10	20,000	1	1.2		
	DHE12-150	6-01-019199	○	12	150	35	51	40	41~51	M10	20,000	1	2.2		
	DHE14-95	6-01-034716	○	14	95	36	52	40	42~53	M10	20,000	1	1.3		
	DHE14-150	6-01-032432	○	14	150	36	52	40	43~53	M10	20,000	1	2.2		
	DHE16-95	6-01-015813	●	16	95	40	52	45	46~56	M10	20,000	1	1.3		
	DHE16-150	6-01-019200	○	16	150	40	53	45	46~56	M10	20,000	1	2.2		
	DHE18-100	6-01-082833	○	18	100	42	53	45	49~59	M10	20,000	1	1.4		
	DHE18-150	6-01-032433	○	18	150	42	53	45	49~59	M10	20,000	1	2.2		
	DHE20-100	6-01-014681	●	20	100	44	50	50	49~59	M10	20,000	1	1.4		
	DHE20-150	6-01-019201	●	20	150	44	50	50	49~59	M10	20,000	1	2.2		
	DHE25-110	6-01-014682	●	25	110	50	70	48	56~68	M16	20,000	2	1.9		
	DHE32-110	6-01-013953	●	32	110	63	80	48	56~68	M16	20,000	2	2.3		

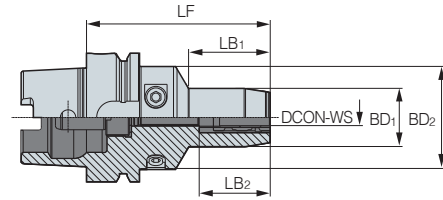
※ Dual contact taper : Made to order

M This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → **8&9**

HSK-DHE



Internal coolant system optional

(mm)

Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	kg
HSK100A- DHE6-80	6-01-019202	○	6	80	29	50	34	30~40	M5	15,000	1
DHE6-150	6-01-019203	○	6	150	29	50	34	30~40	M5	15,000	1
DHE8-80	6-01-019204	○	8	80	31	50	34	30~40	M5	15,000	1
DHE8-150	6-01-019205	○	8	150	31	50	34	30~40	M5	15,000	2.2
DHE10-90	6-01-019206	○	10	90	33	50	34	35~45	M5	15,000	1
DHE10-150	6-01-019207	○	10	150	33	50	34	35~45	M5	15,000	2.2
DHE12-95	6-01-019208	○	12	95	35	50	34	41~51	M10	15,000	1.2
DHE12-150	6-01-082054	○	12	150	35	50	34	41~52	M10	15,000	2.2
DHE14-100	6-01-082821	○	14	100	36	50	40	43~53	M10	15,000	1.2
DHE14-150	6-01-082822	○	14	150	36	50	40	43~54	M10	15,000	2.2
DHE16-100	6-01-019210	○	16	100	40	50	45	46~56	M10	15,000	1.3
DHE16-150	6-01-019211	○	16	150	40	50	45	46~56	M10	15,000	2.2
DHE18-100	6-01-082824	○	18	100	42	50	45	49~59	M10	15,000	1.3
DHE18-150	6-01-082825	○	18	150	42	50	45	49~59	M10	15,000	2.2
DHE20-105	6-01-019212	●	20	105	44	50	50	49~59	M10	15,000	1.4
DHE20-150	6-01-019213	○	20	150	44	50	50	49~59	M10	15,000	2.2
DHE25-115	6-01-019214	●	25	115	50	63	62	58~68	M16	15,000	1.4
DHE32-115	6-01-019215	●	32	115	63	75	62	58~68	M16	15,000	2.3

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → **8&9**

Parts for HSK

Included with the Tool		
Division	Clamp Tube for HSK	Wrench
Parts		
Designation		
HSK50A	HSK50A-CNS	HSK50-WRENCH(C)
HSK63A	HSK63A-CNS	HSK63-WRENCH(C)
HSK100A	HSK100A-CNS	HSK100-WRENCH(C)

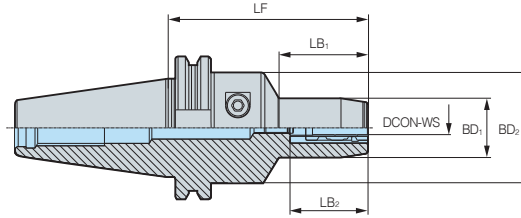
SK-DHE

DIN
69893-1
TaperG 6.3
G Value15,000~
20,000
RPMX5μm
T.I.RC
Coolant System
Ready

Milling

Drilling

Reaming



C Internal coolant system installed

(mm)

	Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	ADJ	RPMX	kg
SK40-	DHE6-90	6-01-013950	●	6	90	29	50	40	30-40	M5	20,000	1.4
	DHE8-90	6-01-015023	●	8	90	31	50	40	30-40	M5	20,000	1.4
	DHE10-90	6-01-013574	●	10	90	33	50	40	35-45	M5	20,000	1.5
	DHE12-90	6-01-012606	●	12	90	35	50	40	41~51	M10	20,000	1.5
	DHE12-140	6-01-013961	●	12	140	35	50	40	41~51	M10	20,000	2.1
	DHE14-90	6-01-042798	●	14	90	36	50	40	43~53	M10	20,000	1.4
	DHE16-90	6-01-013575	●	16	90	40	50	45	46~56	M5	20,000	1.5
	DHE18-90	6-01-025933	●	18	90	42	50	45	49~59	M5	20,000	1.5
SK50-	DHE20-90	6-01-014155	●	20	90	44	50	50	49~59	M10	20,000	1.5
	DHE20-140	6-01-020860	●	20	140	44	50	50	49~59	M10	20,000	2.1
	DHE12-90	6-01-014654	●	12	90	35	50	40	41~51	M10	15,000	3.2
	DHE14-90	6-01-037671	●	14	90	36	50	40	43~53	M10	15,000	3.2
	DHE16-90	6-01-010576	●	16	90	40	50	45	46~56	M10	15,000	3.3
	DHE18-90	6-01-045815	●	18	90	42	50	40	49~59	M10	15,000	3.2
	DHE20-90	6-01-011136	●	20	90	44	50	47	49~59	M10	15,000	3.2

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 9

Parts

Included with the Tool					
Division		Clamp Bolt	Wrench	Division	Adjust Screw
Parts				Parts	
Designation				Designation	
BT30/SK30/HSK50A	DHE4.5, 6, 8, 10, 12, 14, 16, 18, 20	BTF1010	DHETW-5	DHE 6, 8, 10	DHE-M5 (ADJ)
	DHE 25, 32	BTF1212-1.5	DHETW-6	DHE 12, 14, 16, 18, 20	DHE-M10 (ADJ)
BT40/BT50/SK40/SK50/HSK63A/HSK100A				DHE 25, 32	DHE-M16 (ADJ)

Slim Hydraulic Expansion Chuck

DHE/S

- Optimized chuck for machining that requires high-quality surface roughness and accuracy
- Suitable for challenging mold and automotive parts machining that involves complicated shapes and a lot of interferences
- Ideal for metal impeller machining, which requires deep penetration
- Enables easy tool connection without any additional connecting device
- Easy to perform fine boring operations (0.02-0.2 mm)
- Application scope: milling, drilling, reaming



Code system

CAT40B

-

DHE

3/8

S

-

7.5

Spindle

B = AD/B Coolant

Hydraulic expansion
chuck

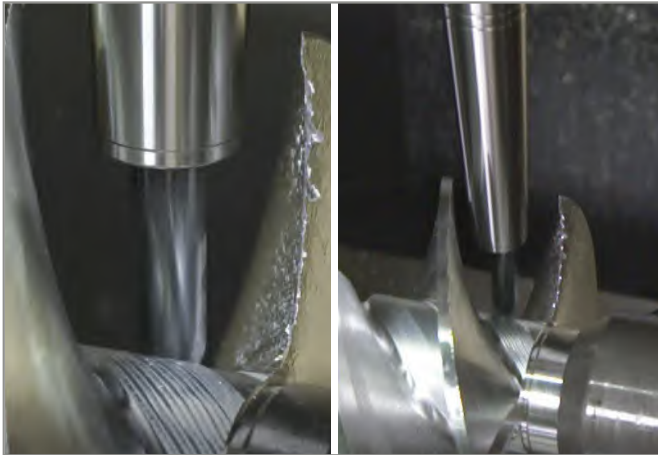
Tool diameter

Type

S: Slim

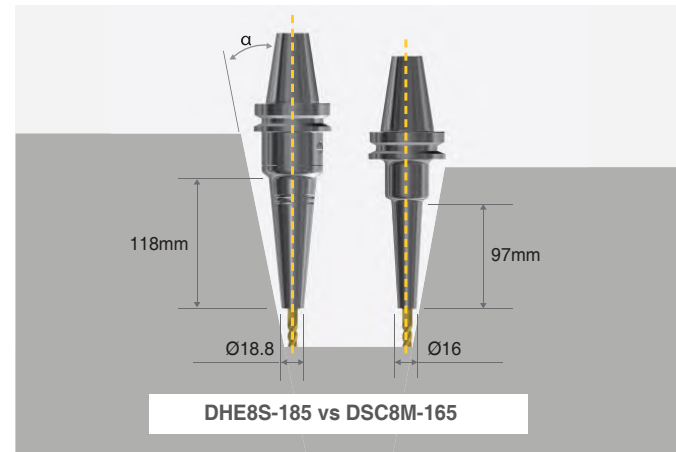
Length

Recommended Machining Works



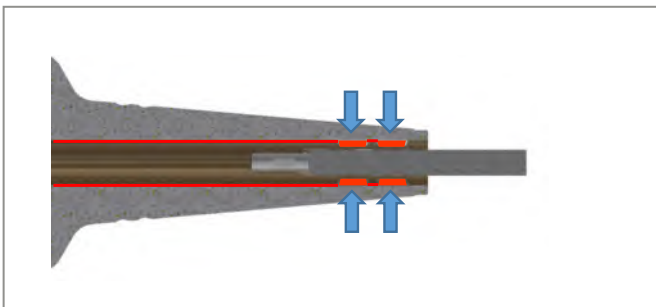
- Optimized for machining that requires high precision
- Enables challenging narrow and deep machining
- Products that require fine boring operations

Product Comparison



- Length and thickness are the same as those of DSC/M Type (if the tool projection length is 40 mm, difference of α = around 2°)
- Longer gauge line and higher rigidity (versus the DSC/M Type)
- Ideal for mold machining due to its 3-degree taper shape

Stable Clamping Force



- Maintains high clamping force and good accuracy by holding the tool at two points

High-Precision

- Run-out: below 5 μm (Long type 8 μm)
- $L = 3 \times \text{DCON-WS}$



CAT-DHE/S

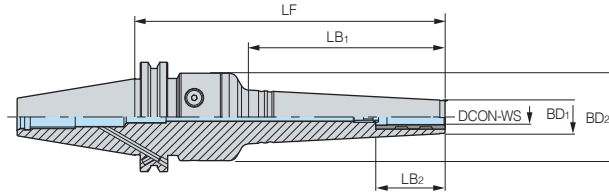
ASME
B5.50-CAT
TaperG 6.3
G Value20,000
Max RPM5~8μm
T.I.RC
Coolant System
Ready

AD/B

Milling

Drilling

Reaming



C Internal coolant system installed

(inch)

	Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	RPMX	Run-out
CAT40B	DHE1/4S-4.75	6-01-083705	○	1/4	4.75	0.66	1.969	1.97	1.095	20,000	5 μm
	DHE1/4S-7.25	6-01-083706	○	1/4	7.25	0.66	1.969	4.53	1.095	20,000	8 μm
	DHE3/8S-5.00	6-01-083707	○	3/8	5.00	0.819	1.969	2.165	1.567	20,000	5 μm
	DHE3/8S-7.25	6-01-083708	○	3/8	7.25	0.819	1.969	4.53	1.567	20,000	8 μm
	DHE1/2S-5.25	6-01-083709	○	1/2	5.25	0.898	1.969	2.559	1.882	20,000	5 μm
	DHE1/2S-7.25	6-01-083710	○	1/2	7.25	0.898	1.969	4.53	1.882	20,000	8 μm
	DHE5/8S-7.50	6-01-083711	○	5/8	7.50	1.055	1.969	4.53	2.04	20,000	8 μm
	DHE3/4S-7.50	6-01-083712	○	3/4	7.50	1.213	1.969	4.53	2.157	20,000	8 μm
CAT50B	DHE1/4S-8.00	6-01-083713	○	1/4	8.00	0.66	1.969	4.53	1.095	15,000	8 μm
	DHE3/8S-8.00	6-01-083714	○	3/8	8.00	0.819	1.969	4.53	1.567	15,000	8 μm
	DHE1/2S-8.00	6-01-083715	○	1/2	8.00	0.898	1.969	4.53	1.882	15,000	8 μm
	DHE5/8S-8.00	6-01-083716	○	5/8	8.00	1.055	1.969	4.53	2.04	15,000	8 μm
	DHE3/4S-8.00	6-01-083717	○	3/4	8.00	1.213	1.969	4.53	2.157	15,000	8 μm

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 11

Parts

Included with the Tool		
Division	Clamp Bolt	Wrench
Parts		
Designation		
DHE1/4, 3/8, 1/2	BTF1010	DHETW-5
DHE5/8, 3/4	BTF1012	DHETW-5

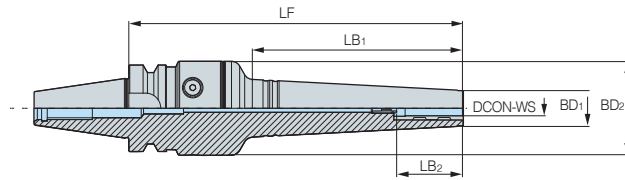
BT-DHE/S

MAS
403-BT
TaperG 6.3
G Value15,000~
25,000
RPMX5~8μm
T.I.RC
Coolant System
Ready

Milling

Drilling

Reaming



C Internal coolant system installed

(mm)

	Designation	K.P.CODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	RPMX	Run-out	kg
BT30-	DHE4S-115	6-01-082499	○	4	115	16.8	50	50	19	25,000	5μm	1.1
	DHE5S-115	6-01-082500	○	5	115	16.8	50	50	19	25,000	5μm	1.1
	DHE6S-115	6-01-045213	●	6	115	17.0	50	50	23	25,000	5μm	1.1
	DHE6S-180	6-01-042784	●	6	180	17.0	50	115	23	25,000	8μm	1.4
	DHE8S-115	6-01-045214	●	8	115	19.0	50	50	31	25,000	5μm	1.1
	DHE8S-180	6-01-045215	●	8	180	19.0	50	115	31	25,000	8μm	1.4
	DHE10S-120	6-01-045216	●	10	120	21.0	50	55	36	25,000	5μm	1.4
	DHE10S-180	6-01-042785	●	10	180	21.0	50	115	36	25,000	8μm	1.9
	DHE12S-130	6-01-045217	●	12	130	23.0	50	65	38	25,000	5μm	1.2
	DHE12S-180	6-01-045218	●	12	180	23.0	50	115	38	25,000	8μm	1.6
BT40-	DHE4S-120	6-01-082506	○	4	120	16.8	50	50	19	20,000	5μm	1.7
	DHE5S-120	6-01-081275	○	5	120	16.8	50	50	19	20,000	5μm	1.7
	DHE6S-120	6-01-045047	●	6	120	17.0	50	50	23	20,000	5μm	1.7
	DHE6S-185	6-01-045219	●	6	185	17.0	50	115	23	20,000	8μm	2.0
	DHE8S-120	6-01-045220	●	8	120	19.0	50	50	31	20,000	5μm	2.0
	DHE8S-185	6-01-045221	●	8	185	19.0	50	115	31	20,000	8μm	2.0
	DHE10S-125	6-01-045222	●	10	125	21.0	50	55	36	20,000	5μm	1.6
	DHE10S-185	6-01-045223	●	10	185	21.0	50	115	36	20,000	8μm	2.0
	DHE12S-135	6-01-045224	●	12	135	23.0	50	65	38	20,000	5μm	1.8
	DHE12S-185	6-01-045225	●	12	185	23.0	50	115	38	20,000	8μm	2.2
	DHE16S-190	6-01-082504	○	16	190	26.8	50	115	41	20,000	8μm	2.3
	DHE20S-190	6-01-082505	○	20	190	30.8	50	115	44	20,000	8μm	2.4
BT50-	DHE6S-200	6-01-082519	○	6	200	16.8	50	115	22	15,000	8μm	4.6
	DHE8S-200	6-01-082520	○	8	200	18.8	50	115	30	15,000	8μm	4.6
	DHE10S-200	6-01-082513	○	10	200	20.8	50	115	35	15,000	8μm	4.8
	DHE12S-200	6-01-082514	○	12	200	22.8	50	115	37	15,000	8μm	4.9
	DHE16S-200	6-01-082515	○	16	200	26.8	50	115	41	15,000	8μm	5.0
	DHE20S-200	6-01-082516	○	20	200	30.8	50	115	44	15,000	8μm	5.0

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 13

HSK-DHE/S

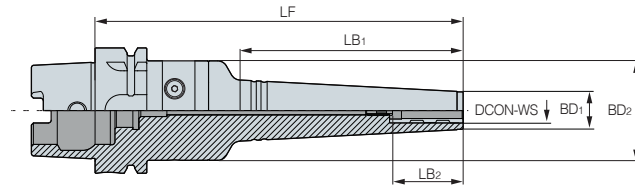
DIN
69893-1
TaperG 6.3
G Value15,000~
20,000
RPMX5~8μm
T.I.R

Coolant System

Milling

Drilling

Reaming



c Internal coolant system optional

(mm)

Designation	K.PCODE	STOCK	DCON-WS	LF	BD1	BD2	LB1	LB2	RPMX	Run-out	kg
HSK63A- DHE4S-120	COMING SOON	○	4	120	16.8	50	50	19	20,000	5μm	1.4
DHE5S-120	COMING SOON	○	5	120	16.8	50	50	19	20,000	5μm	1.4
DHE6S-120	6-01-047746	●	6	120	17	50	50	23	20,000	5μm	1.4
DHE6S-185	6-01-042786	●	6	185	17	50	115	23	20,000	8μm	1.7
DHE8S-120	6-01-047747	●	8	120	19	50	50	31	20,000	5μm	1.4
DHE8S-185	6-01-047748	●	8	185	19	50	115	31	20,000	8μm	1.8
DHE10S-125	6-01-047743	●	10	125	21	50	55	36	20,000	5μm	1.5
DHE10S-185	6-01-047744	●	10	185	21	50	115	36	20,000	8μm	1.8
DHE12S-135	6-01-047745	●	12	135	23	50	65	38	20,000	5μm	1.8
DHE12S-185	6-01-042787	●	12	185	23	50	115	38	20,000	8μm	1.8
DHE16S-190	6-01-082832	○	16	190	26.8	50	115	41	20,000	8μm	2.2
DHE20S-190	6-01-082834	○	20	190	30.8	50	115	44	20,000	8μm	2.3
HSK100A- DHE16S-190	6-01-082823	○	16	190	26.8	50	115	41	15,000	8μm	3.1
DHE20S-190	6-01-082826	○	20	190	30.8	50	115	44	15,000	8μm	3.3

※ Dual contact taper : Made to order

●: Korea stock ◆: US stock ○: Made to order

M This is in metric unit. We can also provide in inch type.

• LB2: Insertion depth of tool (Min.~Max.) Spare Part → 13

Parts for HSK

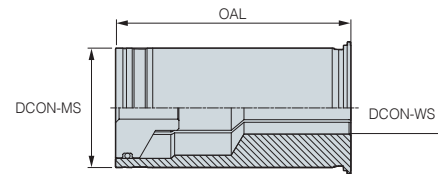
Included with the Tool		
Division	Clamp Tube for HSK	Wrench
Parts		
Designation		
HSK63A	HSK63A-CNS	HSK63-WRENCH(C)
HSK100A	HSK100A-CNS	HSK100-WRENCH(C)

Parts

Included with the Tool				
Division		Clamp bolt	Wrench	Adjust Screw
Parts				
Designation				
BT30	DHE/S 4, 5, 6, 8, 10, 12	BTF1010	DHETW-5	DHE-M5 (ADJ)
BT40	DHE/S 4, 5, 6, 8, 10, 12, 16, 20	BTF1010	DHETW-5	DHE/S 16, 20 DHE-M10 (ADJ)
BT50	DHE/S 6, 8, 10, 12, 16, 20	BTF1010	DHETW-5	
HSK63A	DHE/S 4, 5, 6, 8, 10, 12, 16, 20	BTF1010	DHETW-5	
HSK100A	DHE/S 16, 20	BTF1010	DHETW-5	

DHC Collet

General Type



This product does not support the internal coolant system

(inch)

Designation		K.P. CODE	STOCK	DCON-WS	OAL	DCON-MS	kg
DHC1/2	1/8	6-01-083465	◆	1/8	1.85	1/2	0.06~0.08
	1/4	6-01-083466	◆	1/4	1.85	1/2	0.06~0.08
	3/8	6-01-083467	◆	3/8	1.85	1/2	0.06~0.08
DHC3/4	1/8	6-01-083468	◆	1/8	2.05	3/4	0.04~0.06
	3/16	6-01-083469	◆	3/16	2.05	3/4	0.04~0.06
	1/4	6-01-083470	◆	1/4	2.05	3/4	0.04~0.06
	5/16	6-01-083471	◆	5/16	2.05	3/4	0.04~0.06
	3/8	6-01-083472	◆	3/8	2.05	3/4	0.04~0.06
	1/2	6-01-083473	◆	1/2	2.05	3/4	0.04~0.06
	5/8	6-01-083474	◆	5/8	2.05	3/4	0.04~0.06
DHC1 1/4	1/2	6-01-083475	○	1/2	2.48	1 1/4	0.20~0.50
	3/4	6-01-083476	○	3/4	2.48	1 1/4	0.20~0.50
	1	6-01-083477	○	1	2.48	1 1/4	0.20~0.50

●: Korea stock ◆: US stock ○: Made to order

This product does not support the internal coolant system

(mm)

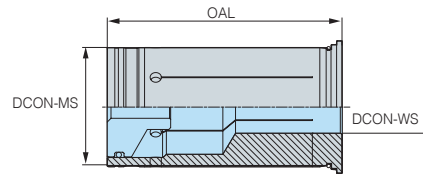
Designation		K.P.CODE	STOCK	DCON-WS	OAL	DCON-MS	kg
DHC12-	3	6-01-013962	●	3	47	12	0.06~0.08
	4	6-01-013963	●	4	47	12	0.06~0.08
	5	6-01-013964	●	5	47	12	0.06~0.08
	6	6-01-013965	●	6	47	12	0.06~0.08
	8	6-01-013966	●	8	47	12	0.06~0.08
DHC20-	3	6-01-016731	●	3	52	20	0.04~0.06
	4	6-01-014143	●	4	52	20	0.04~0.06
	5	6-01-015153	●	5	52	20	0.04~0.06
	6	6-01-012667	●	6	52	20	0.04~0.06
	7	6-01-043644	○	7	52	20	0.04~0.06
	8	6-01-012668	●	8	52	20	0.04~0.06
	9	6-01-043678	●	9	52	20	0.04~0.06
	10	6-01-011251	●	10	52	20	0.04~0.06
	11	6-01-041127	●	11	52	20	0.04~0.06
	12	6-01-011252	●	12	52	20	0.04~0.06
	14	6-01-011253	●	14	52	20	0.04~0.06
	16	6-01-011254	●	16	52	20	0.04~0.06
DHC32-	6	6-01-019186	●	6	63	32	0.20~0.50
	8	6-01-019187	●	8	63	32	0.20~0.50
	10	6-01-014142	●	10	63	32	0.20~0.50
	12	6-01-019188	●	12	63	32	0.20~0.50
	14	6-01-047592	●	14	63	32	0.20~0.50
	16	6-01-014139	●	16	63	32	0.20~0.50
	18	6-01-038477	●	18	63	32	0.20~0.50
	19	6-01-047593	●	19	63	32	0.20~0.50
	20	6-01-014140	●	20	63	32	0.20~0.50
	25	6-01-014141	●	25	63	32	0.20~0.50

This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

DHC-(P) Collet

Sealed Type



c Internal coolant system installed

(mm)

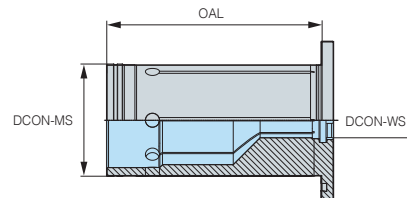
Designation		K.P.CODE	STOCK	DCON-WS	OAL	DCON-MS	kg
DHC12-	3(P)	6-01-021322	●	3	47	12	0.04
	4(P)	6-01-021323	●	4	47	12	0.04
	5(P)	6-01-021324	●	5	47	12	0.04
	6(P)	6-01-021325	●	6	47	12	0.04
	8(P)	6-01-021326	●	8	47	12	0.04
DHC20-	3(P)	6-01-021314	●	3	52	20	0.06~0.10
	4(P)	6-01-021315	●	4	52	20	0.06~0.10
	5(P)	6-01-021316	●	5	52	20	0.06~0.10
	6(P)	6-01-021317	●	6	52	20	0.06~0.10
	7(P)	6-01-037415	●	7	52	20	0.06~0.10
	8(P)	6-01-021318	●	8	52	20	0.06~0.10
	9(P)	6-01-043240	●	9	52	20	0.06~0.10
	10(P)	6-01-021319	●	10	52	20	0.06~0.10
	11(P)	6-01-039240	●	11	52	20	0.06~0.10
	12(P)	6-01-021320	●	12	52	20	0.06~0.10
	14(P)	6-01-024329	●	14	52	20	0.06~0.10
	16(P)	6-01-021321	○	16	52	20	0.06~0.10
	DHC32-	6(P)	6-01-021473	●	6	63	32
8(P)		6-01-021474	●	8	63	32	0.20~0.30
10(P)		6-01-021475	●	10	63	32	0.20~0.30
12(P)		6-01-021476	●	12	63	32	0.20~0.30
14(P)		6-01-025059	●	14	63	32	0.20~0.30
16(P)		6-01-021477	●	16	63	32	0.20~0.30
18(P)		6-01-020877	●	18	63	32	0.20~0.30
19(P)		6-01-020878	●	19	63	32	0.20~0.30
20(P)		6-01-021478	●	20	63	32	0.20~0.30
25(P)		6-01-021479	●	25	63	32	0.20~0.30

M This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

DHJ Collet

Jet Coolant



c Internal coolant system installed

(mm)

Designation	K.P.CODE	STOCK	DCON-WS	OAL	DCON-MS	kg	
DHJ20-	6	6-01-035535	●	6	50	20	0.10
	8	6-01-035536	●	8	50	20	0.10
	10	6-01-035537	●	10	50	20	0.10
	12	6-01-035538	●	12	50	20	0.10
	14	6-01-035539	●	14	50	20	0.08
	16	6-01-035540	●	16	50	20	0.08

M This is in metric unit. We can also provide in inch type.

●: Korea stock ◆: US stock ○: Made to order

For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.



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