MAKINO

Slim3

Compact Vertical Machining Center

HSK-A50 TOOLING SYSTEM

Speed

Accuracy

Reliability

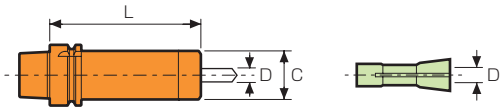
Slim3

MST

MST corporation

1109E

DETa-1 COLLET HOLDER 〈E type〉 DTE



CODE	φD	L	φC
A50—DTE 7—105	1 ～ 7	105	29
—DTE12—120	2.5～13	120	40

DETa-1 collet

CODE			
Standard collet	Precision collet	Holder type	φD
D7—1.5	Add "-P" after the standard type item code. 〈 Example 〉 D7—6—P	DTE7	1 ～ 1.5
—2			1.5 ～ 2
—2.5			2 ～ 2.5
—3			2.5 ～ 3
—4			3 ～ 4
—5			4 ～ 5
—6			5 ～ 6
—7			6 ～ 7

CODE			
Standard collet	Precision collet	Holder type	φD
D12— 4	Add "-P" after the standard type item code. 〈 Example 〉 D12—6—P	DTE12	2.5 ～ 4
— 6			4 ～ 6
— 8			6 ～ 8
—10			8 ～ 10
—12			10 ～ 12
—13			11 ～ 13

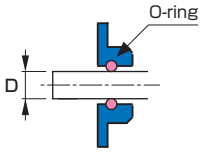
Spanner

CODE	Holder type	Clamping torque
W—135DR	DTE 7 DTE12	1.4 kgf 1.8 kgf

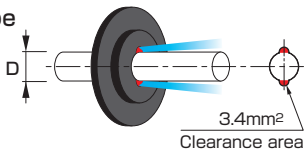
Coolant-through system (Option)

Spacer

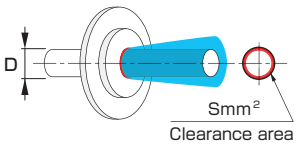
EA type



EBM type



EBS type



CODE	Holder type	φD	Q'ty
7EA— 3.5—3	DTE 7	3 ～ 3.5	3pcs. 1set
— 4.0—3		3.5～ 4	
— 4.5—3		4 ～ 4.5	
— 5.0—3		4.5～ 5	
— 5.5—3		5 ～ 5.5	
— 6.0—3		5.5～ 6	
— 6.5—3		6 ～ 6.5	
— 7.0—3		6.5～ 7	
12EA— 3.5—3	DTE12	3 ～ 3.5	3pcs. 1set
— 4.0—3		3.5～ 4	
— 4.5—3		4 ～ 4.5	
— 5.0—3		4.5～ 5	
— 5.5—3		5 ～ 5.5	
— 6.0—3		5.5～ 6	
— 6.5—3		6 ～ 6.5	
— 7.0—3		6.5～ 7	
— 8.0—3		7.0～ 8.0	
— 9.0—3		8.0～ 9.0	
—10.0—3		9.0～10.0	
—11.0—3		10.0～11.0	
—12.0—3		11.0～12.0	
—13.0—3		12.0～13.0	

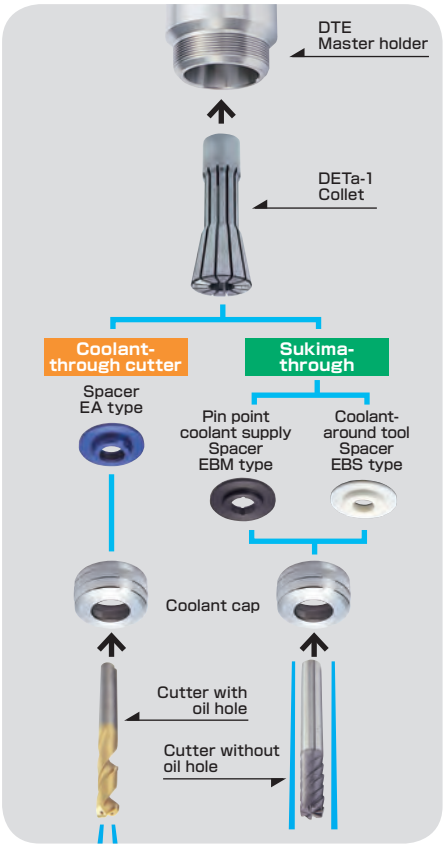
CODE	Holder type	φD	Q'ty
7EBM— 3—3	DTE 7	3	3pcs. 1set
— 4—3		4	
— 6—3		6	
12EBM— 3—3	DTE12	3	3pcs. 1set
— 4—3		4	
— 6—3		6	
— 8—3		8	
—10—3		10	
—12—3		12	

CODE	Holder type	φD	S	Q'ty
7EBS— 3.6—3	DTE 7	3	3.1	3pcs. 1set
— 4.5—3		4	3.3	
— 6.4—3		6	3.9	
12EBS— 3.6—3	DTE12	3	3.1	3pcs. 1set
— 4.5—3		4	3.3	
— 6.4—3		6	3.9	
— 8.4—3		8	4.6	
—10.3—3		10	4.8	
—12.3—3		12		

Spacer blank type

Depend on cutter or application, please modify.

CODE	Holder type	Q'ty
7EBF—BL—5	DTE 7	5pcs. 1set
12EBF—BL—5	DTE12	

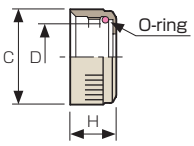


Spacer set

CODE	Contents of set			Holder type
	Spacer	Q'ty	Coolant cap	
7ES—A	7EA —3.5～7 7EBM —3,4,6 7EBS —3.6～6.4	(1 ea.) total 14pcs.	CLP— 7E (1pc.)	DTE 7
12ES—A	12EA —3.5～13 12EBM —3～13 12EBS—3.6～12.3	(1 ea.) total 26pcs.	CLP—12E (1pc.)	DTE12

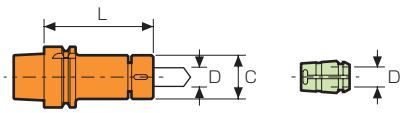
■ Standard accessories
•Collet driver

Coolant cap



CODE	Holder type	φD	φC	H
CLP— 7E	DTE 7	21	29	14
— 12E	DTE12	30	40	18

COLLER HOLDER for high-speed — CTH



CODE	φD	L	φC
A50 —CTH10— 55	2.4~10	55	36
— 75		75	
A50M—CTH20— 80	5.8~20	80	50
—105		105	

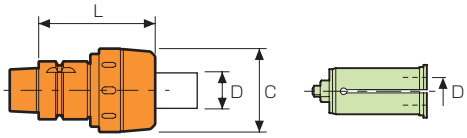
Spring collet

CODE Precision collet	Holder type	φD
C10—D—P	CTH10	2.6 2.8···(0.2 steps)···9.8 10
C20—D—P	CTH20	6 6.2···(0.2 steps)···19.8 20

Spanner

CODE	Holder type	Clamping torque
FC—36	CTA10, CTH10	4~ 6 kgf
—50	CTA20, CTH20	12 kgf

Hi-ART MILLING CHUCK — ART



CODE	φD	L	φC
A50M—ART32—100	32	100	72

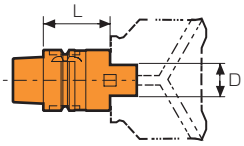
Straight collet

CODE Standard type	CODE F type	φD
S32— 6	S32— 6F	6
— 8	— 8F	8
—10	—10F	10
—12	—12F	12
—16	—16F	16
—20	—20F	20
—25	—25F	25

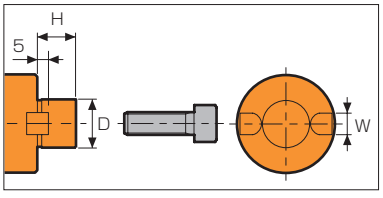
Spanner with ejection hook

CODE	Clamping torque
FM—72	6 kgf·m

FACE MILL ARBOR — FM



Detail drawing

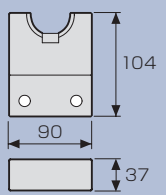


CODE	φD	L	H	W
A50—FM 16—45S02	16	45	16	8
—FMC22—45	22		18	10
—FMC27—45S03	27		20	12

PERIPHERALS

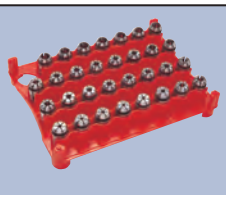
TOOL SET UP STAND — Tool tightening stand

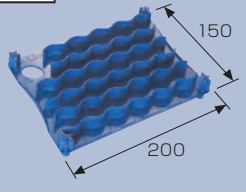
CODE
HF—A50



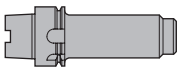
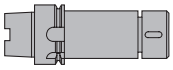
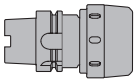
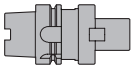
PALLET — Collet stand

CODE	Applicable collet
PA—R	C10 (31ea.) / D 7 (31ea.)
—B	C20 (17ea.) / D12 (17ea.)





TOOL HOLDER SET

	Holder	Collet	Aset	Bset
DETa-1 COLLET HOLDER (DTE type)			Q'ty	Q'ty
	A50—DTE7—105		3	—
		D 7— 1.5	2	—
		— 2	2	—
		— 2.5	2	—
		— 3	2	—
		— 4	2	—
		— 5	2	—
		— 6	2	—
		— 7	2	—
	A50—DTE12—120		3	5
		D12— 4	2	3
		— 6	2	3
		— 8	2	3
		—10	2	3
		—12	2	3
		—13	2	3
	F—135DR (Spanner)		1	1
COLLET HOLDER (CTH type)			Q'ty	Q'ty
	A50—CTH10—75		3	2
		C10— 3—P	2	2
		— 4—P	2	2
		— 6—P	2	2
		— 8—P	2	2
		—10—P	2	2
	FC—36 (Spanner)		1	1
	A50M—CTH20—80		3	5
		C20— 6—P	1	3
		— 8—P	1	3
		—10—P	1	3
		—12—P	1	3
		—16—P	1	3
		—20—P	1	3
	FC—50 (Spanner)		1	1
Hi-ART MILLING CHUCK			Q'ty	Q'ty
	A50—ART32—100		2	2
		S32—12	1	1
		—16	1	1
		—20	1	1
		—25	1	1
	FM—72 (Spanner)		1	1
FACE MILL ARBOR			Q'ty (Select one)	Q'ty (Select one)
	A50 —FM 16—45S02		○	●
	A50M—FMC22—45		○	●
	—FM 27—45S03		○	●

		Q'ty	Q'ty
TOOL SET UP STAND	HF—A50	1	1
PALLET	PA—R	1	1
	—B	1	2

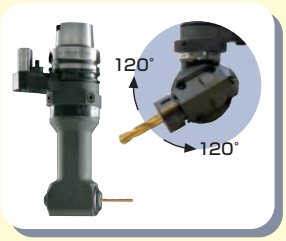
TOTAL

	Q'ty	Q'ty
HOLDER	15	15
COLLET	48	50
PERIPHERALS	3	4

SHRINK-FIT HOLDER SLIMLINE

- ●Using special stainless steel
- ●Super slim
- ●High accuracy 3μ

ANGLE HEAD HALF



- ●Affordable
- ●Lightweight 1.8kg
- ●Quick delivery

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