



DBCA ^{NEW}

New balance cut tool



C

28

136

Coolant System

MIN Range

MAX Range

Boring



Features

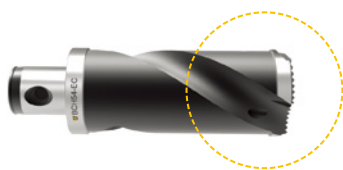
- Applied adjustment function simultaneously in Bi/Uni-direction of Cartridge
- Improves the rigidity of cutting by applying Cover for rotating type
- Increased machining area versus conventional own products
- Improved capacity to evacuate chips by unique design of Helical Type Head
- Boring range : $\varnothing 28$ - $\varnothing 136$

NAMING

DBCA	32	33	S	32
New balance cut tool	MD Arbor Size	Min. boring dia.	Straight type	H: Helical type, Non: Straight type

Main features

Helical Type



- Improved capacity to discharge chips from clogged and deep holes
- Minimized damage to tools and insert due to chip clogging

Extended head length	Deep hole machining implemented
Helical Type	Improved capacity to discharge chips from holes

Boring area optimization

Direction of spraying cutting oil



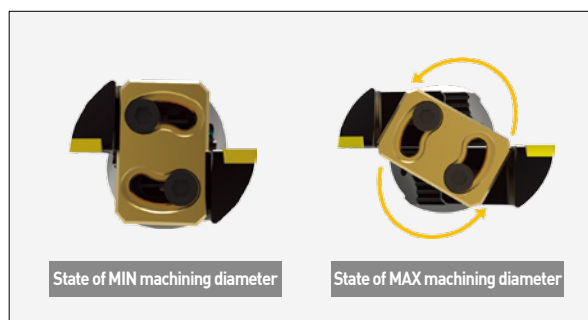
- Max. diameter expanded owing to reinforced rigidity
- Boring range expanded per model no. versus conventional boring range of DINE

Coolant Hole
(Direct spray to cutting edge)

- Improved capacity to discharge chips
- Improved capacity of machining

Effect of improved rigidity for Cartridge by Cover

Clamps the top of the cartridge stably, minimizing the vibration of tools and improving the roughness of the working surface





DBCA NEW

New balance cut tool



Comparison with competitors

Verifying of less vibration due to improved rigidity and smooth chip discharge

→ **Superior performance compared to competitors**

MANUFACTURER	L/D	SURFACE ROUGHNESS (RA)	SPECIAL NOTES	MACHINED SURFACE
Company A	5D	3.82	Vibration occurred	
Company B	5D	2.46	Vibration occurred Chips tangled	
DINE tool over	5D	2.19	Well-machined surface No chip tangled	

New machining range versus old machining range of DINE

OLD TYPE



NEW TYPE



Designation	Boring Range ØD	
	min	max
DBC2528S	28	35
DBC3235S	35	46
DBC4046S	46	58
DBC5058S	58	74
DBC6347S	74	94
DBC8094S	94	120

Designation	Boring Range ØD	
	min	max
DBCA2528S-H	28	38
DBCA3238S-H	38	54
DBCA5054S-H	54	74
DBCA6374S-H	74	100
DBCA80100S-H	100	136

Detailed Specifications

	Designation	Cartridge (Standard)	Step Cartridge	Step Cartridge Bite	
				CC Type	WC Type
	DBCA2528S-□	BCC28-EC	BCC28SB	SBB28-CC	SBB28-WC
	DBCA3238S-□	BCC38-EC	BCC38SB		
	DBCA5054S-□	BCC54-EC	BCC54SB	SBB54-CC	SBB54-WC
	DBCA6374S-□	BCC74-EC	BCC74SB	SBB74-CC	SBB74-WC
	DBCA80100S-□	BCC100-EC	BCC100SB		

Comparison with competitors

MACHINING CONDITIONS	Vc(m/min)	f(mm/rev)	ap(mm)	MATERIAL	ITEM	DEPTH OF HALL
	200	0.08	2	S45C	Penetration hall	30

MANUFACTURER	Insert	GAUGE LINE (HEAD+SHANK)	BORING DIAMETER	L/D	SURFACE ROUGHNESS (RA)	SPECIAL NOTES	MACHINED SURFACE	TOOL TOP	TOOL SIDE
Competitor A	SCMT09T0304	164	Ø35	4.68	3.82	Vibration occurred			
Competitor B	CCMT080204	180	Ø35	5.14	2.46	Vibration occurred Chips tangled			
DINE	CCMT060204	175	Ø35	5	2.19	Well-machined surface No chip tangled			



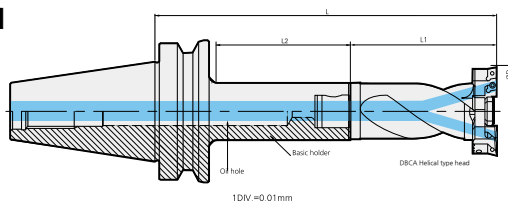
BT-DBC/A (Helical Type)

New balance cut tool(Helical Type)



MAS 403-BT	C	28	136	
Shank	Coolant System	MIN Range	MAX Range	Boring

Fig.1



Head.1

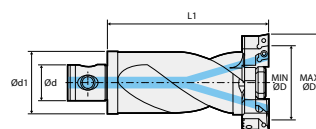
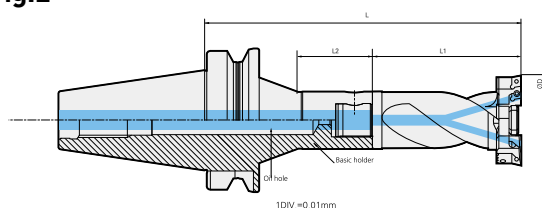


Fig.2



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

- For more information on the product features, see **144p**.
- For more information on MD arbor, see **126p**.
- For more information on the applicable insert, see **159p**.
- For more information on the related parts, see **158p**.

Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
BT30	DBCA2528S-H	BT30-MD25F-90	28	38	193	103	63	14	25	1	0.3	0.3
	DBCA3238S-H	BT30-MD32F-80	38	54	190	110	55	18	32	1	0.5	0.6
	DBCA5054S-H	BT30-MD50F-70	54	74	215	145	48	28	50	1	1.8	1.9
BT40	DBCA2528S-H	BT40-MD25F-95	28	38	198	103	63	14	25	1	0.3	0.3
	DBCA2528S-H	BT40-MD25F-105R	28	38	208	103	40	14	25	2	0.3	0.3
	DBCA3238S-H	BT40-MD32F-100	38	54	210	110	70	18	32	1	0.5	0.6
	DBCA3238S-H	BT40-MD32F-115R	38	54	225	110	45	18	32	2	0.5	0.6
	DBCA5054S-H	BT40-MD50F-105	54	74	250	145	73	28	50	1	1.8	1.9
	DBCA6374S-H	BT40-MD63F-64	74	100	244	180	37	36	63	1	3.3	3.5
	DBCA6374S-H	BT40-MD63F-110	74	100	290	180	83	36	63	1	3.3	3.5
	DBCA6374S-H	BT40-MD63F-135	74	100	315	180	108	36	63	1	3.3	3.5
	DBCA80100S-H	BT40-MD80F-100	100	136	315	215	73	45	80	1	7.3	7.6

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S-H: CCMT0602□□
- DBCA3238S-H: CCMT0602□□
- DBCA5054S-H: CCMT09T3□□
- DBCA6374S-H: CCMT1204□□
- DBCA80100S-H: CCMT1204□□



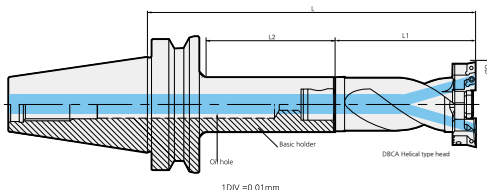
BT-DBC/A (Helical Type)

New balance cut tool(Helical Type)



MAS 403-BT	C	28	136	
Shank	Coolant System	MIN Range	MAX Range	Boring

Fig.1



Head.1

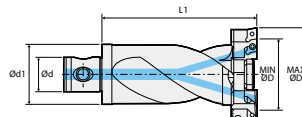
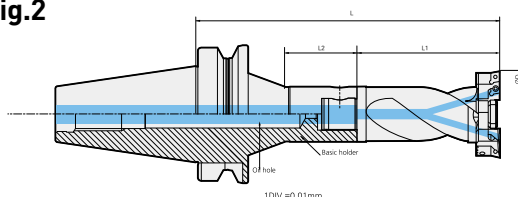


Fig.2



- For more information on the product features, see [144p](#)
- For more information on MD arbor, see [126p](#)
- For more information on the applicable insert, see [159p](#)
- For more information on the related parts, see [158p](#)

C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

	Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)
	Head model no.	Arbor Model No.	Min.	Max.								
BT50	DBCA2528S-H	BT50-MD25F-105	28	38	208	103	62	14	25	1	0.3	0.3
	DBCA2528S-H	BT50-MD25F-120R	28	38	223	103	40	14	25	2	0.3	0.3
	DBCA3238S-H	BT50-MD32F-110	38	54	220	110	67	18	32	1	0.5	0.6
	DBCA3238S-H	BT50-MD32F-115R	38	54	225	110	45	18	32	2	0.5	0.6
	DBCA3238S-H	BT50-MD32F-235R	38	54	345	110	115	18	32	2	0.5	0.6
	DBCA5054S-H	BT50-MD50F-125	54	74	270	145	82	28	50	1	1.8	1.9
	DBCA5054S-H	BT50-MD50F-225	54	74	370	145	182	28	50	1	1.8	1.9
	DBCA5054S-H	BT50-MD50F-250R	54	74	395	145	81	28	50	2	1.8	1.9
	DBCA6374S-H	BT50-MD63F-75	74	100	255	180	35	36	63	1	3.3	3.5
	DBCA6374S-H	BT50-MD63F-130	74	100	280	180	87	36	63	1	3.3	3.5
	DBCA6374S-H	BT50-MD63F-195	74	100	375	180	152	36	63	1	3.3	3.5
	DBCA6374S-H	BT50-MD63F-230	74	100	410	180	187	36	63	1	3.3	3.5
	DBCA80100S-H	BT50-MD80F-75	100	136	290	215	36	45	80	1	7.3	7.6
	DBCA80100S-H	BT50-MD80F-110	100	136	325	215	69	45	80	1	7.3	7.6
	DBCA80100S-H	BT50-MD80F-175	100	136	390	215	134	45	80	1	7.3	7.6

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S-H: CCMT0602□□
- DBCA3238S-H: CCMT0602□□
- DBCA5054S-H: CCMT09T3□□
- DBCA6374S-H: CCMT1204□□
- DBCA80100S-H: CCMT1204□□

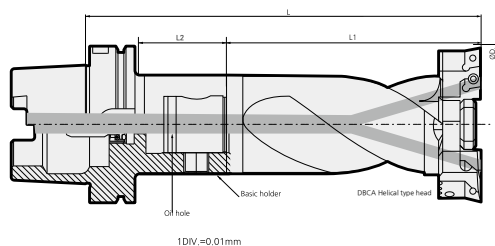


HSK-DBC/A (Helical Type)

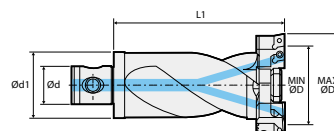
New balance cut tool(Helical Type)



Fig.1



Head.1



- For more information on the product features, see [144p](#).
- For more information on MD arbor, see [126p](#).
- For more information on the applicable insert, see [159p](#).
- For more information on the related parts, see [158p](#).

C Internal coolant system is optional.

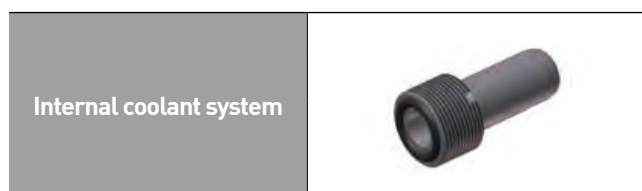
※ Red : Main component Blue : For separate purchase

HSK63A	Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	kg (Head weight)	kg (Head package weight)
	Head model no.	Arbor Model No.	Min.	Max.							
	DBCA2528S-H	HSK63A-MD25F-60	38	54	163	103	31	14	25	0.3	0.3
	DBCA3238S-H	HSK63A-MD32F-65	38	54	175	110	36	18	32	0.5	0.6
	DBCA5054S-H	HSK63A-MD50F-85	54	74	230	145	58	28	50	1.8	1.9
	DBCA6374S-H	HSK63A-MD63F-95	74	100	275	180	69	45	80	3.3	3.5

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S-H: CCMT0602□□
- DBCA3238S-H: CCMT0602□□
- DBCA5054S-H: CCMT09T3□□
- DBCA6374S-H: CCMT1204□□
- DBCA80100S-H: CCMT1204□□

For separate purchase



Internal coolant system

Classification by shank	
HSK50	HSK50A-CNS
HSK63	HSK63A-CNS
HSK100	HSK100A-CNS



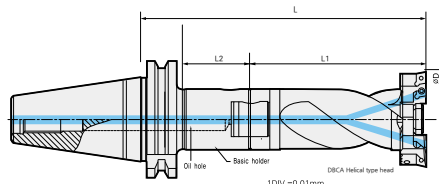
SK-DBC/A (Helical Type)

New balance cut tool(Helical Type)



DIN69871 -1A/B	C		38	136
Shank	Coolant System	Boring	MIN Range	MAX Range

Fig.1



Head.1

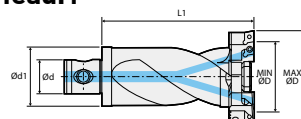


Fig.2

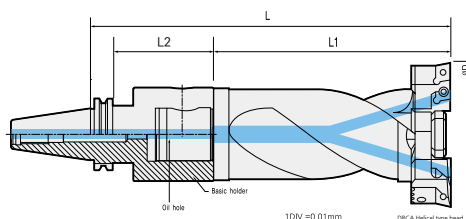
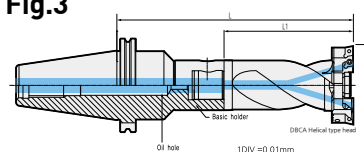


Fig.3



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

- For more information on the product features, see **144p**
- For more information on MD arbor, see **126p**
- For more information on the applicable insert, see **159p**
- For more information on the related parts, see **158p**

Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	Fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
SK40	DBCA2528S-H	SK40-MD25F-80R	38	54	183	103	22	14	25	3	0.3	0.3
	DBCA3238S-H	SK40-MD32F-115R	38	54	225	110	36	18	32	3	0.5	0.6
	DBCA5054S-H	SK40-MD50F-75	54	74	220	145	55	28	50	1	1.8	1.9
	DBCA5054S-H	SK40-MD50F-100	54	74	145	145	80	28	50	1	1.8	1.9
	DBCA6374S-H	SK40-MD63F-70	74	100	250	180	50	36	63	2	3.3	3.5
SK50	DBCA2528S-H	SK50-MD25F-80R	28	38	183	103	22	14	25	3	0.3	0.3
	DBCA2528S-H	SK50-MD25F-105R	28	38	208	103	22	14	25	3	0.3	0.3
	DBCA3238S-H	SK50-MD32F-110	38	54	220	110	87	18	32	1	0.5	0.6
	DBCA3238S-H	SK50-MD32F-110R	38	54	220	110	36	18	32	3	0.5	0.6
	DBCA5054S-H	SK50-MD50F-125R	54	74	270	145	60	28	50	3	1.8	1.9
	DBCA5054S-H	SK50-MD50F-240R	54	74	385	145	125	28	50	3	1.8	1.9
	DBCA6374S-H	SK50-MD63F-75	74	100	255	180	52	36	63	1	3.3	3.5
	DBCA6374S-H	SK50-MD63F-130	74	100	310	180	107	36	63	1	3.3	3.5
	DBCA6374S-H	SK50-MD63F-230R	74	100	410	180	149	36	63	3	3.3	3.5
	DBCA80100S-H	SK50-MD80F-95	100	136	310	215	75	45	80	1	7.3	7.6
	DBCA80100S-H	SK50-MD80F-150	100	136	365	215	130	45	80	1	7.3	7.6

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S-H: CCMT0602□□
- DBCA3238S-H: CCMT0602□□
- DBCA5054S-H: CCMT09T3□□
- DBCA6374S-H: CCMT1204□□
- DBCA80100S-H: CCMT1204□□



BT-DBC/A (Straight Type)

New balance cut tool(straight Type)



Fig.1

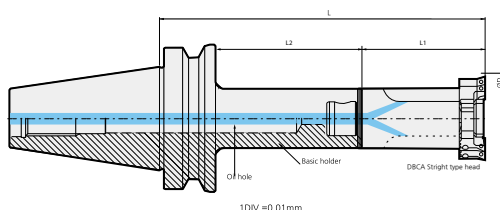
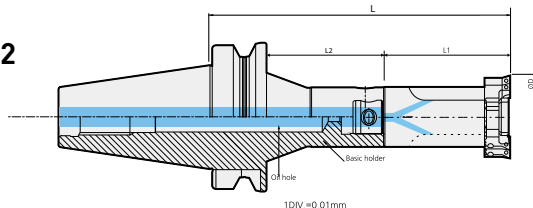
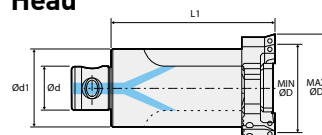


Fig.2



Head



- For more information on the product features, see [144p](#).
- For more information on MD arbor, see [126p](#).
- For more information on the applicable insert, see [159p](#).
- For more information on the related parts, see [158p](#).

C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
BT30	DBCA2528S	BT30-MD25F-90	28	38	193	103	63	14	25	1	0.2	0.2
	DBCA3238S	BT30-MD32F-80	38	54	190	110	55	18	32	1	0.4	0.4
	DBCA5054S	BT30-MD50F-70	54	74	215	145	48	28	50	1	1.1	1.1
BT40	DBCA2528S	BT40-MD25F-95	28	38	198	103	63	14	25	1	0.2	0.2
	DBCA2528S	BT40-MD25F-105R	28	38	208	103	40	14	25	2	0.2	0.2
	DBCA3238S	BT40-MD32F-100	38	54	210	110	70	18	32	1	0.4	0.4
	DBCA3238S	BT40-MD32F-115R	38	54	225	110	45	18	32	2	0.4	0.4
	DBCA5054S	BT40-MD50F-105	54	74	205	145	73	28	50	1	1.1	1.1
	DBCA6374S	BT40-MD63F-64	74	100	244	180	37	36	63	1	1.9	2.1
	DBCA6374S	BT40-MD63F-135	74	100	315	180	83	36	63	1	1.9	2.1
	DBCA6374S	BT40-MD80F-100	74	100	280	180	108	36	63	1	1.9	2.1
	DBCA80100S	BT40-MD80F-100	100	136	315	215	73	45	80	1	3.7	3.9

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S: CCMT0602□□
- DBCA3238S: CCMT0602□□
- DBCA5054S: CCMT09T3□□
- DBCA6374S: CCMT1204□□
- DBCA80100S: CCMT1204□□



BT-DBC/A (Straight Type)

New balance cut tool(straight Type)



Fig.1

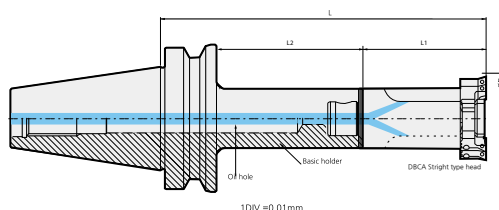
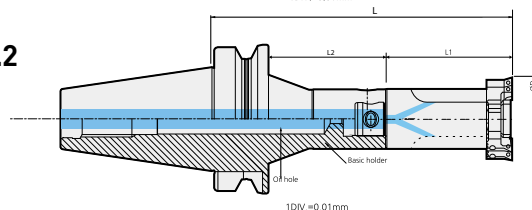
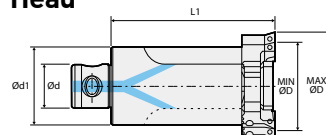


Fig.2



Head



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

- For more information on the product features, see **144p**
- For more information on MD arbor, see **126p**
- For more information on the applicable insert, see **159p**
- For more information on the related parts, see **158p**

BT50	Model No.		Boring range[ØD]		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)
	Head model no.	Arbor Model No.	Min.	Max.								
	DBCA2528S	BT50-MD25F-105	28	38	208	103	62	14	25	1	0.2	0.2
	DBCA2528S	BT50-MD25F-120R	28	38	223	103	40	14	25	2	0.2	0.2
	DBCA3238S	BT50-MD32F-110	38	54	220	110	67	18	32	1	0.4	0.4
	DBCA3238S	BT50-MD32F-115R	38	54	225	110	45	18	32	2	0.4	0.4
	DBCA3238S	BT50-MD32F-235R	38	54	345	110	115	18	32	2	0.4	0.4
	DBCA5054S	BT50-MD50F-125	54	74	270	145	82	28	50	1	1.1	1.1
	DBCA5054S	BT50-MD50F-225	54	74	370	145	182	28	50	1	1.1	1.1
	DBCA5054S	BT50-MD50F-250R	54	74	395	145	81	28	50	2	1.1	1.1
	DBCA6374S	BT50-MD63F-75	74	100	255	180	35	36	63	1	1.9	2.1
	DBCA6374S	BT50-MD63F-130	74	100	310	180	87	36	63	1	1.9	2.1
	DBCA6374S	BT50-MD63F-195	74	100	375	180	152	36	63	1	1.9	2.1
	DBCA6374S	BT50-MD63F-230	74	100	410	180	187	36	63	1	1.9	2.1
	DBCA80100S	BT50-MD80F-75	100	136	290	215	36	45	80	1	3.7	3.9
DBCA80100S	BT50-MD80F-110	100	136	325	215	69	45	80	1	3.7	3.9	
DBCA80100S	BT50-MD80F-175	100	136	390	215	134	45	80	1	3.7	3.9	

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S: CCMT0602□□
- DBCA3238S: CCMT0602□□
- DBCA5054S: CCMT09T3□□
- DBCA6374S: CCMT1204□□
- DBCA80100S: CCMT1204□□

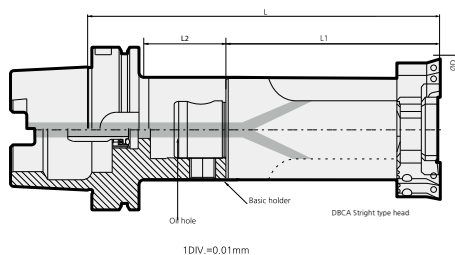


HSK-DBC/A (Straight Type)

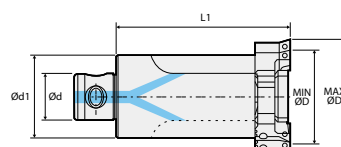
New balance cut tool(straight Type)



Fig.1



Head.1



- For more information on the product features, see **144p**.
- For more information on MD arbor, see **126p**.
- For more information on the applicable insert, see **159p**.
- For more information on the related parts, see **158p**.

C Internal coolant system is optional.

※ **Red** : Main component **Blue** : For separate purchase

Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	kg (Head weight)	kg (Head package weight)
Head model no.	Arbor Model No.	Min.	Max.							
DBCA2528S	HSK63A-MD25F-60	38	54	122	62	31	14	25	0.3	0.3
DBCA3238S	HSK63A-MD32F-65	38	54	134.5	69.5	36	18	32	0.5	0.6
DBCA5054S	HSK63A-MD50F-85	54	74	179	94	58	28	50	1.8	1.9
DBCA6374S	HSK63A-MD63F-95	74	100	206.5	106.5	69	45	80	3.3	3.5

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S: CCMT0602□□
- DBCA3238S: CCMT0602□□
- DBCA5054S: CCMT09T3□□
- DBCA6374S: CCMT1204□□
- DBCA80100S: CCMT1204□□

For separate purchase

Internal coolant system



Classification by shank

HSK50	HSK50A-CNS
HSK63	HSK63A-CNS
HSK100	HSK100A-CNS



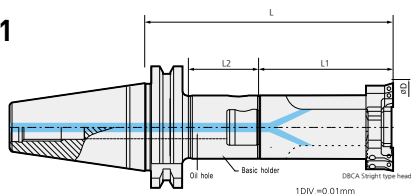
SK-DBC/A (Straight Type)

New balance cut tool(straight Type)



DIN69871 -1A/B	C	38	136	
Shank	Coolant System	MIN Range	MAX Range	Boring

Fig.1



Head

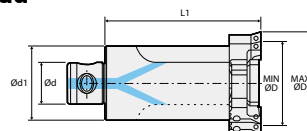


Fig.2

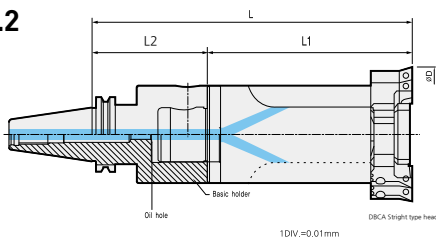
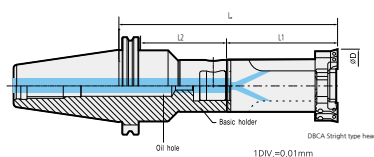


Fig.3



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

- For more information on the product features, see **144p**
- For more information on MD arbor, see **126p**
- For more information on the applicable insert, see **159p**
- For more information on the related parts, see **158p**

Model No.		Boring range[ØD]		L	L1	L2	Ød	Ød1	Fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
SK40	DBCA2528S	SK40-MD25F-80R	38	54	183	103	22	14	25	3	0.3	0.3
	DBCA3238S	SK40-MD32F-115R	38	54	225	110	36	18	32	3	0.5	0.6
	DBCA5054S	SK40-MD50F-75	54	74	220	145	55	28	50	1	1.8	1.9
	DBCA5054S	SK40-MD50F-100	54	74	245	145	80	28	50	1	1.8	1.9
	DBCA6374S	SK40-MD63F-70	74	100	250	180	50	36	63	2	3.3	3.5
SK50	DBCA2528S	BT50-MD25F-80R	28	38	183	103	22	14	25	3	0.3	0.3
	DBCA2528S	BT50-MD25F-105R	28	38	208	103	22	14	25	3	0.3	0.3
	DBCA3238S	BT50-MD32F-110	38	54	220	110	87	18	32	1	0.5	0.6
	DBCA3238S	BT50-MD32F-110R	38	54	220	110	36	18	32	3	0.5	0.6
	DBCA5054S	BT50-MD50F-125R	54	74	270	145	60	28	50	3	1.1	1.1
	DBCA5054S	BT50-MD50F-240R	54	74	385	145	125	28	50	3	1.1	1.1
	DBCA6374S	BT50-MD63F-75	74	100	255	180	52	36	63	1	3.3	3.5
	DBCA6374S	BT50-MD63F-130	74	100	310	180	107	36	63	1	3.3	3.5
	DBCA6374S	BT50-MD63F-230R	74	100	410	180	149	36	63	3	3.3	3.5
	DBCA80100S	BT50-MD80F-95	100	136	310	215	75	45	80	1	7.3	7.6
	DBCA80100S	BT50-MD80F-150	100	136	365	215	130	45	80	1	7.3	7.6

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBCA2528S: CCMT0602□□
- DBCA3238S: CCMT0602□□
- DBCA5054S: CCMT09T3□□
- DBCA6374S: CCMT1204□□
- DBCA80100S: CCMT1204□□



BT-DBC

Balance cut tool(Rough Boring)



Fig.1

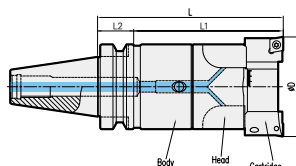
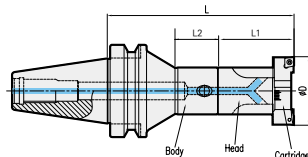
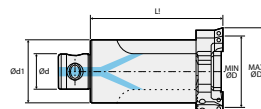


Fig.2



Head



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

- For more information on MD arbor, see **126p**.
- For more information on the applicable insert, see **159p**.
- For more information on the related parts, see **158p**.

Model No.		Boring range[ØD]		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
BT30	DBC2528S	BT30-MD25F-90	28	35	150	60	63	14	25	1	0.3	0.3
	DBC3235S	BT30-MD32F-80	35	46	145	65	55	18	32	1	0.4	0.4
	DBC4046S	BT30-MD40F-45	46	58	115	70	22	22	40	1	0.6	0.7
	DBC4046S	BT30-MD40F-60	46	58	130	70	36	22	40	1	0.6	0.7
	DBC4046S	BT30-MD40F-80	46	58	140	70	56	22	40	1	0.6	0.7
	DBC5058S	BT30-MD50F-70	58	74	150	80	48	28	50	1	1.1	1.2
BT40	DBC2528S	BT40-MD25F-95	28	35	155	60	63	14	25	1	0.3	0.3
	DBC2528S	BT40-MD25F-105R	28	35	165	60	40	14	25	2	0.3	0.3
	DBC3235S	BT40-MD32F-100	35	46	165	65	70	18	32	1	0.4	0.4
	DBC3235S	BT40-MD32F-115R	35	46	180	65	45	18	32	2	0.4	0.4
	DBC4046S	BT40-MD40F-60	46	58	130	70	31	22	40	1	0.6	0.7
	DBC4046S	BT40-MD40F-110R	46	58	180	70	60	22	40	2	0.6	0.7
	DBC4046S	BT40-MD40F-115	46	58	185	70	83	22	40	1	0.6	0.7
	DBC5058S	BT40-MD50F-105	58	74	185	80	73	28	50	1	1.1	1.2
	DBC6374S	BT40-MD63F-64	74	94	154	90	37	36	63	1	2.0	2.2
	DBC6374S	BT40-MD63F-110	74	94	200	90	83	36	63	1	2.0	2.2
	DBC6374S	BT40-MD63F-135	74	94	225	90	108	36	63	1	2.0	2.2
	DBC8094S	BT40-MD80F-100	94	120	200	100	73	45	80	1	3.5	3.7

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBC2528S : CCMT0602□□
- DBC3235S : CCMT0602□□
- DBC4046S : CCMT09T3□□
- DBC5058S : CCMT09T3□□
- DBC6374S : CCMT1204□□
- DBC8094S : CCMT1204□□



BT-DBC

Balance cut tool(Rough Boring)



MAS 403-BT	C	28	175	
Shank	Coolant System	MIN Range	MAX Range	Boring

Fig.1

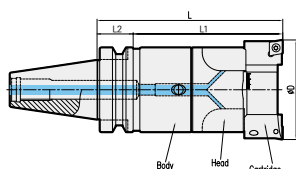
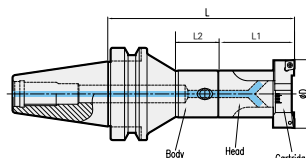
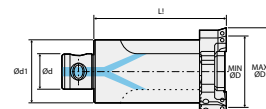


Fig.2



Head



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

• For more information on MD arbor, see **126p**

• For more information on the applicable insert, see **159p**

• For more information on the related parts, see **158p**

BT50	Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	fig	kg (Head weight)	kg (Head package weight)
	Head model no.	Arbor Model No.	Min.	Max.								
	DBC2528S	BT50-MD25F-105	28	35	165	60	62	14	25	1	0.3	0.3
	DBC2528S	BT50-MD25F-120R	28	35	185	60	40	14	25	2	0.3	0.3
	DBC3235S	BT50-MD32F-110	35	46	175	65	67	18	32	1	0.4	0.4
	DBC3235S	BT50-MD32F-115R	35	46	180	65	45	18	32	2	0.4	0.4
	DBC3235S	BT50-MD32F-235R	35	46	300	65	115	18	32	2	0.4	0.4
	DBC4046S	BT50-MD40F-60	46	58	130	70	22	22	40	1	0.6	0.7
	DBC4046S	BT50-MD40F-195	46	58	265	70	152	22	40	1	0.6	0.7
	DBC4046S	BT50-MD40F-230R	46	58	300	70	180	22	40	2	0.6	0.7
	DBC5058S	BT50-MD50F-125	58	74	205	80	82	28	50	1	1.1	1.2
	DBC5058S	BT50-MD50F-225	58	74	305	80	182	28	50	1	1.1	1.2
	DBC5058S	BT50-MD50F-250R	58	74	330	80	81	28	50	2	1.1	1.2
	DBC6374S	BT50-MD63F-75	74	94	165	90	35	36	63	1	2.0	2.2
	DBC6374S	BT50-MD63F-130	74	94	220	90	87	36	63	1	2.0	2.2
	DBC6374S	BT50-MD63F-195	74	94	285	90	152	36	63	1	2.0	2.2
	DBC6374S	BT50-MD63F-230	74	94	320	90	187	36	80	1	2.0	2.2
	DBC8094S	BT50-MD80F-75	94	120	175	100	36	36	80	1	3.5	3.7
	DBC8094S	BT50-MD80F-110	94	120	210	100	69	45	80	1	3.5	3.7
	DBC8094S	BT50-MD80F-175	94	120	275	100	134	45	80	1	3.5	3.7
	DBC120S	BT50-MD80F-175	120	175	275	100	134	45	80	1	4.1	4.4

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBC2528S : CCMT0602□□
- DBC3235S : CCMT0602□□
- DBC4046S : CCMT09T3□□
- DBC5058S : CCMT09T3□□
- DBC6374S : CCMT1204□□
- DBC8094S : CCMT1204□□

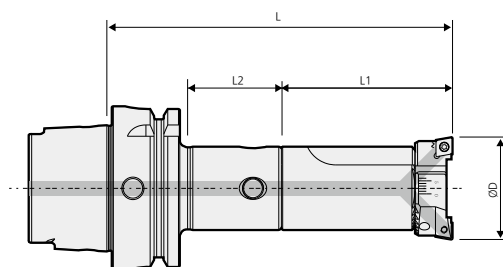


HSK-DBC

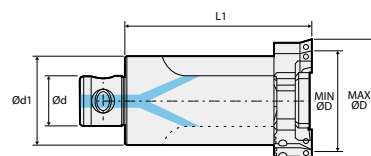
Balance cut tool (Modular type)



Fig.1



Head.1



Internal coolant system is optional.

※ Red : Main component Blue : For separate purchase

- For more information on MD arbor, see [126p](#).
- For more information on the applicable insert, see [159p](#).
- For more information on the related parts, see [158p](#).

Model No.	Head model no.	Arbor Model No.	Boring range(ØD)		L	L1	L2	Ød	Ød1	kg (Head weight)	kg (Head package weight)
			Min.	Max.							
HSK63A	DBC2528S	HSK63A-MD25F-60	28	35	120	60	31	14	25	0.3	0.3
	DBC3235S	HSK63A-MD32F-65	35	46	130	65	36	18	32	0.4	0.4
	DBC4046S	HSK63A-MD40F-70	46	58	140	70	41	22	40	0.6	0.7
	DBC5058S	HSK63A-MD50F-85	58	74	165	80	58	28	50	1.1	1.2
	DBC6374S	HSK63A-MD63F-95	74	94	185	90	69	36	63	2.0	2.2

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBC2528S : CCMT0602□□
- DBC3235S : CCMT0602□□
- DBC4046S : CCMT09T3□□
- DBC5058S : CCMT09T3□□
- DBC6374S : CCMT1204□□
- DBC8094S : CCMT1204□□

For separate purchase

Internal coolant system



Classification by shank

HSK50	HSK50A-CNS
HSK63	HSK63A-CNS
HSK100	HSK100A-CNS

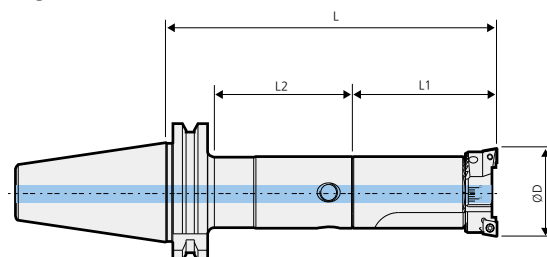


SK-DBC

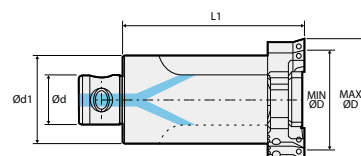
Balance cut tool(Modular type)



Fig.1



Head.1



C Internal coolant system installed.

※ Red : Main component Blue : For separate purchase

• For more information on MD arbor, see **126p**

• For more information on the applicable insert, see **159p**

• For more information on the related parts, see **158p**

Model No.		Boring range(ØD)		L	L1	L2	Ød	Ød1	Fig	kg (Head weight)	kg (Head package weight)	
Head model no.	Arbor Model No.	Min.	Max.									
SK40	DBC2528S	SK40-MD25F-80R	28	35	140	60	22	14	25	2	0.3	0.3
	DBC3235S	SK40-MD32F-115R	35	46	180	65	36	18	32	2	0.4	0.4
	DBC4046S	SK40-MD50F-75	46	58	145	70	55	28	50	1	0.6	0.7
	DBC5058S	SK40-MD50F-100	58	74	180	80	80	28	50	1	1.1	1.2
	DBC6374S	SK40-MD63F-70	74	94	160	90	70	36	63	1	2.0	2.2
SK50	DBC2528S	BT50-MD25F-80R	28	35	140	60	22	14	25	2	0.3	0.3
	DBC2528S	BT50-MD25F-105R	28	35	165	60	22	14	25	2	0.3	0.3
	DBC3235S	BT50-MD32F-110	35	46	175	65	87	18	32	1	0.4	0.4
	DBC3235S	BT50-MD32F-110R	35	46	175	65	36	18	32	2	0.4	0.4
	DBC4046S	SK50-MD40F-100	46	58	170	70	75	22	40	1	0.6	0.7
	DBC4046S	SK50-MD40F-145	46	58	215	70	120	22	40	1	0.6	0.7
	DBC4046S	SK50-MD40F-220R	46	58	290	70	83	22	40	2	0.6	0.7
	DBC5054S	BT50-MD50F-125R	58	74	205	80	60	28	50	2	1.1	1.2
	DBC5054S	BT50-MD50F-240R	58	74	320	80	125	28	50	2	1.1	1.2
	DBC6374S	BT50-MD63F-75	74	94	165	90	52	36	63	1	2.0	2.2
	DBC6374S	BT50-MD63F-130	74	94	220	90	107	36	63	1	2.0	2.2
	DBC6374S	BT50-MD63F-230R	74	94	320	90	149	36	63	2	2.0	2.2
	DBC8094S	BT50-MD80F-95	94	120	195	100	75	45	80	1	3.5	3.7
	DBC8094S	BT50-MD80F-150	94	120	250	100	130	45	80	1	3.5	3.7
	DBC120S	BT50-MD80F-150	120	175	250	100	95	45	80	1	4.1	4.4

• In the above table, the Arbor Model No. is an example model no. and able to adjust the depth of boring with a combination of MD arbors and extension bars. For more details, see the MD arbor page.

- DBC2528S : CCMT0602□□
- DBC3235S : CCMT0602□□
- DBC4046S : CCMT09T3□□
- DBC5058S : CCMT09T3□□
- DBC6374S : CCMT1204□□
- DBC8094S : CCMT1204□□



DBCA/DBC SPARE PART

Balance cut tool related parts



Main components

DBCA

Spare Part

TYPE	Main components								
	Head	Spring pin	Wrench bolt	Wrench	Cartridge	Set screw	Wrench	Clamp screw	Torx wrench
Head Set									
DBCA3238S	DBCA2528	SP0308	BX0420	LW-3	BCC28-EC	BT0308	LW-1.5	BFTX02506N	TRX8
DBCA3238S	DBCA3238	SP0410	BX0525	LW-4	BCC38-EC	BT0310	LW-1.5	BFTX02506M	TRX8
DBCA5054S	DBCA5054	SP0616	BX0630	LW-5	BCC54-EC	BT0414	LW-2	BFTX0407N	TRX15
DBCA6374S	DBCA6374	SP0818	BX0635	LW-5	BCC74-EC	BT0520	LW-2.5	BFTX0511N	TRX20
DBCA80100S	DBCA80100	SP1020	BX0840	LW-6	BCC100-EC	BT0625	LW-3	BFTX0511N	TRX20

DBC

Spare Part

TYPE	Main components								
	Head	Spring pin	Wrench bolt	Wrench	Cartridge	Set screw	Wrench	Clamp screw	Torx wrench
Head Set									
DBC2528S	DBC2528	SP0308	BX0416	LW-3	BCC28	BT0306	LW-1.5	FTKA02565	TRX7
DBC3235S	DBC3235	SP0410	BX0516	LW-4	BCC35	BT0308	LW-1.5	FTKA02565	TRX7
DBC4046S	DBC4046	SP0516	BX0620	LW-5	BCC46	BT0408	LW-2	FTNA0408	TRX15
DBC5058S	DBC5058	SP0616	BX0620	LW-5	BCC58	BT0412	LW-2	FTNA0408	TRX15
DBC6374S	DBC6374	SP0818	BX0830	LW-6	BCC74	BT0516	LW-2.5	BFTX0511N	TRX20
DBC8094S	DBC8094	SP1020	BX1035	LW-8	BCC94	BT0620	LW-3	BFTX0511N	TRX20
DBC120S	DBC120N	SP1020	BX0830	LW-6	BCC120	BT0830	LW-4	BFTX0511N	TRX20



DBCA/DBC SPARE PART

Balance cut tool related parts

For separate purchase

Insert Part				
INSERT	GRADE	Workpiece	CUTTING	Maker
 CCMT0602□□	Coated : AC8010P	Steel, Alloy Steel, Cast iron	general	SEI(SUMITOMO)
	Coated : AC8025P	Steel, Alloy Steel		
	Coated : AC6030M	Stainless Steel		
	Cermet : T1500A	Steel, Cast iron	finishing ~ general	KORLOY
	Coated : NC3015, NC3020	Steel, Alloy Steel	general	
	Coated : NC315K	Cast iron		
	Coated : PC9030	Stainless Steel		
 CCGT0602□□	Coated : AC5025S	Stainless Steel	general	SEI(SUMITOMO)
	Cermet : T1500A, T3000Z	Steel, Cast iron	finishing ~ general	KORLOY
	Coated : NC3020	Steel, Alloy Steel	general	
	W.C : H01	Aluminium	finishing ~ general	
 CCMT09T3□□	Coated : AC8015P	Steel, Alloy Steel, Cast iron	general	SEI(SUMITOMO)
	Coated : AC8025P	Steel, Alloy Steel		
	Coated : AC4015K	Cast iron		
	Coated : AC6030M	Stainless Steel	finishing ~ general	KORLOY
	Cermet : T1500A	Steel, Cast iron		
	Coated : NC3015, NC3020	Steel, Alloy Steel		
	Coated : NC315K	Cast iron		
Coated : PC9030	Stainless Steel	general		
 CCGT09T3□□	Coated : AC5015S	Stainless Steel	general	SEI(SUMITOMO)
	Cermet : T1500A	Steel, Cast iron	finishing ~ general	KORLOY
	W.C : H01	Aluminium		
	Coated : PC9030	Stainless Steel	general	
	W.C : H01	Aluminium	finishing ~ general	
 CCMT1204□□	Coated : AC8025P	Steel, Alloy Steel	general	SEI(SUMITOMO)
	Cermet : T1500A	Steel, Cast iron	finishing ~ general	KORLOY
	Coated : NC3015, NC3020	Steel, Alloy Steel	general	
	Coated : NC315K	Cast iron		
	Coated : PC9030	Stainless Steel		
CCGT1204□□	W.C : H01	Aluminium	finishing ~ general	

- There are a range of grades and chip breakers to choose from according to usage.
- The cartridge for CNMG1204□□ is different from the cartridge for CCMT1204□□ in terms of Model No.