BIG DAISHOWA

2025 NEWS

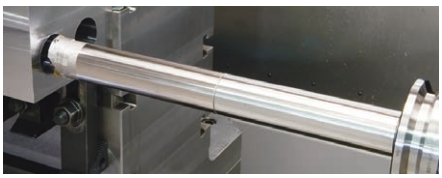
Content

Smart Damper Series

Unique dynamic damping system eliminates vibration for higher productivity.

Anti-Vibration

- Unique damping system for milling and boring
- Center through coolant supply



EWN Fine Boring Type
Boring head with a built-in damper. The EWN Boring Head functions are maintained, featuring integrated damper.

SW Rough Boring Type
Boring head with a built-in damper. Damper located closer to the cutting edge provides greater damping effect.

CK Shank Integral Type
A damper is built into the CK Shank. L/D = 6x

BIG-PLUS® SPINDLE SYSTEM DUAL CONTACT

CK Extension Type
Just combine it with your standard KAISER Boring Head/ CK Shank to achieve damping counter-measures.

Large Diameter Type
Combining a lightweight aluminum intermediate soleplate with an integrated Smart-Damper for fine and rough boring from 200 to 340mm.

Smart Damper Turning Adapter
Several indexable insert holders are available for ISO indexable inserts. Now available in HSK-T63 & 100 and BIG Capto C6 and 8.

Screw On Type
Tapered body design maximizes rigidity while minimizing interference. Screw on cutter with Full Cut Mill is newly available.

Face Mill Type
Modular design allows you to select the optimal size. The BBT40 and HSK-A63 series are newly added to the lineup, enabling coverage of a wider range.

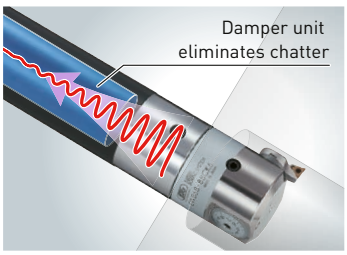
Full Cut Mill for Screw On
Indexable insert end mills combining exceptional sharpness and toughness, delivering performance comparable to solid carbide end mills.

Fullcut Mill FCR
The indexable endmill that combines sharpness and rigidity. For all milling applications.

Fullcut Mill FCM
Designed for shoulder milling.

Damping mechanism
Smart Damper incorporates unique damping mechanism functioning both counter and friction dampers. Patent-pending counter weight maximizes effect of the friction damper. Vibration is absorbed effectively and higher machining accuracy is achieved.

Chatter suppressing mechanism



An incorporated unique damper that functions as both a counter damper and friction damper. Patent-pending counter weight maximizes effect of the friction damper. Chatter is absorbed effectively and higher machining accuracy is achieved.

Smart Damper Basic Holders for Milling Heads

Coolant Through Hole

BIG-PLUS Dual-Contact

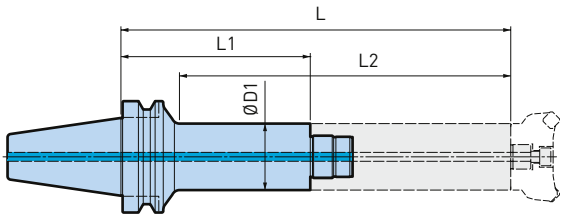


Fig. 1

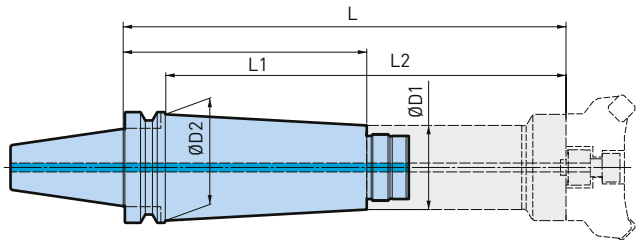


Fig. 2

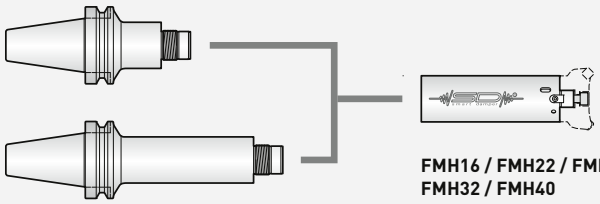
	Model	Article No.	Fig.	ØD1	ØD2	L	L1	L2	Damper Head Model	Weight (kg)
NEW	BBT40-SDF28-38-30	-	1	38	-	200	30	171	FMH16DP-38	1.10
NEW	BBT40-SDF28-38-80	-	1	38	-	250	80	220	FMH16DP-38	1.50
NEW	BBT40-SDF36-47-30	-	1	47	-	210	30	181	FMH_DP-47	1.30
NEW	BBT40-SDF36-47-70	-	1	47	-	250	70	220	FMH_DP-47	1.80
	BBT50-SDF28-38-80	-	1	38	-	250	80	195	FMH16DP-38	4.30
	BBT50-SDF28-38-130	-	1	38	-	300	130	245	FMH16DP-38	4.70
	BBT50-SDF28-38-180	-	1	38	-	350	180	295	FMH16DP-38	5.10
	BBT50-SDF36-47-70	806.579	1	47	-	250	70	197	FMH_DP-47	4.30
	BBT50-SDF36-47-120	806.580	1	47	-	300	120	247	FMH_DP-47	5.00
	BBT50-SDF36-47-170	804.975	1	47	-	350	170	297	FMH_DP-47	5.60
	BBT50-SDF36-47-220	804.970	1	47	-	400	220	347	FMH_DP-47	6.30
	BBT50-SDF36-60-70	806.581	1	60	-	250	70	197	FMH_DP-60	4.60
	BBT50-SDF36-60-120	806.582	1	60	-	300	120	247	FMH_DP-60	5.70
	BBT50-SDF36-60-170	804.973	1	60	-	350	170	297	FMH_DP-60	6.70
	BBT50-SDF36-60-220	804.974	1	60	-	400	220	347	FMH_DP-60	7.80
	BBT50-SDF57-76-70	807.674	1	76	-	250	70	207	FMH_DP-76, -96, -100	5.40
	BBT50-SDF57-76-120	807.675	1	76	-	300	120	257	FMH_DP-76, -96, -100	7.20
	BBT50-SDF57-76-170	807.676	1	76	-	350	170	307	FMH_DP-76, -96, -100	8.90
	BBT50-SDF57-76-170T	-	2	76	96	350	170	310	FMH_DP-76, -96, -100	10.30
	BBT50-SDF57-76-220	807.677	1	76	-	400	220	357	FMH_DP-76, -96, -100	10.70
	BBT50-SDF57-76-220T	100022.001.0	2	76	96	400	220	360	FMH_DP-76, -96, -100	12.50
	BBT50-SDF57-76-270T	-	2	76	96	450	270	410	FMH_DP-76, -96, -100	14.70

1. BIG-PLUS® tools can be used in machining centers with non BIG-PLUS® spindles.

Combinations

Basic Holder

Damper Head



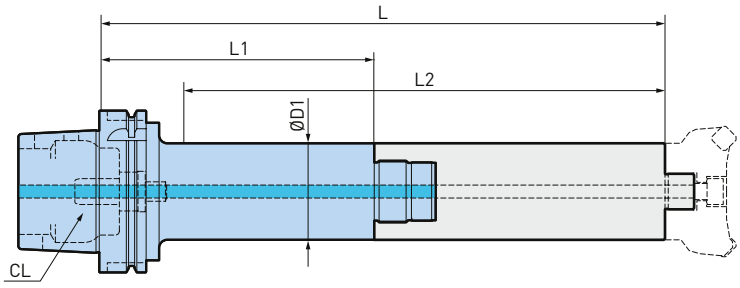
FMH16 / FMH22 / FMH27 / FMH32 / FMH40

⚠ Caution

Damper head becomes unremovable from the basic holder once they are used for machining after assembly.

Smart Damper Basic Holders for Mills

Coolant Through Hole



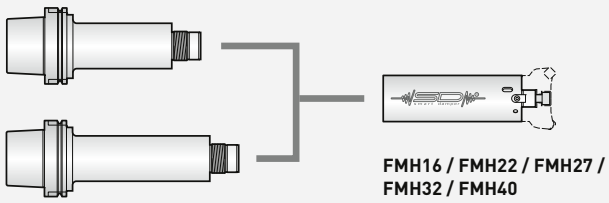
	Model	Article No.	ØD1	L	L1	L2	Damper Head Model	Weight (kg)
NEW	HSK-A63-SDF28-38-40	-	38	210	40	175	FMH16DP-38	0.90
NEW	HSK-A63-SDF28-38-80	-	38	250	80	215	FMH16DP-38	1.30
NEW	HSK-A63-SDF36-47-45	-	47	225	45	182	FMH_DP-60	1.20
NEW	HSK-A63-SDF36-47-85	-	47	265	85	222	FMH_DP-60	1.70
	HSK-A100-SDF36-47-170	804.976	47	350	170	310	FMH_DP-47	4.40
	HSK-A100-SDF36-47-220	804.978	47	400	220	360	FMH_DP-47	5.00
	HSK-A100-SDF36-60-170	804.977	60	350	170	310	FMH_DP-60	5.50
	HSK-A100-SDF36-60-220	804.979	60	400	220	360	FMH_DP-60	6.50
	HSK-A100-SDF57-76-170	807.680	76	350	170	310	FMH_DP-76	7.70
	HSK-A100-SDF57-76-220	807.681	76	400	220	360	FMH_DP-76	9.40
	HSK-A125-SDF36-60-250	806.631	60	430	250	380	FMH_DP-60	8.00

1. Coolant pipe (CL) is to be ordered separately.

Combinations

Basic Holder

Damper Head



FMH16 / FMH22 / FMH27 / FMH32 / FMH40

⚠ Caution

Damper head becomes unremovable from the basic holder once they are used for machining after assembly.

Smart Damper Damper Heads for Mills

Coolant Through Hole

Anti-Vibration

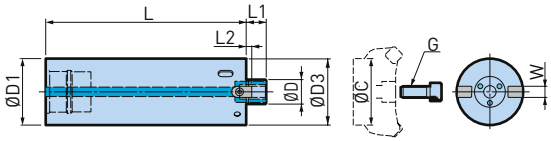


Fig. 1

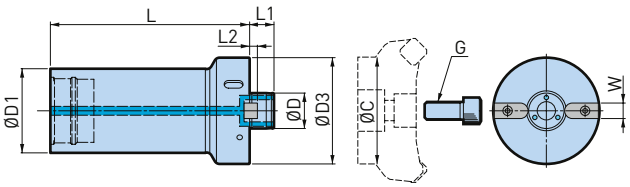
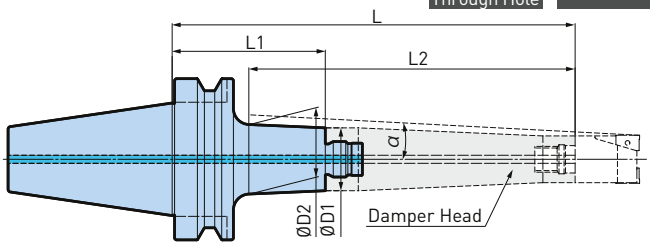


Fig. 2

Model	Article No.	Fig.	ØD	ØD1	ØD3	L	L1	L2	G	W	ØC min.	Weight (kg)
SDF28-FMH16DP-38-170	-	1	16	38	38	170	16	5	M8	8	28	1.90
SDF36-FMH22DP-47-180	804.969	1	22	47	47	180	18	5	M10	10	36	3.00
SDF36-FMH22DP-60-180	804.971	1	22	60	60	180	18	5	M10	10	49	4.50
SDF36-FMH27DP-60-180	804.972	1	27	60	60	180	20	6	M12	12	46	4.50
SDF57-FMH27DP-76-180	807.673	1	27	76	76	180	20	6	M12	12	48	7.90
SDF57-FMH32DP-96-180	100449.001.0	2	32	76	96	180	22	7	M16	14	58	8.70
SDF57-FMH40DP-100-180	-	2	40	76	100	180	26	8.5	M20(MBA-M20H)	16	70	9.10

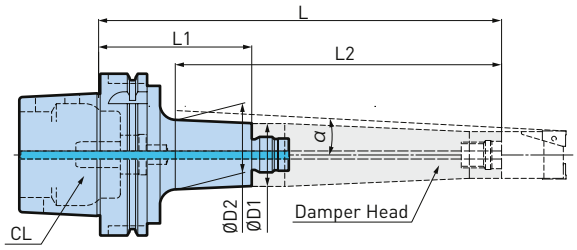
1. Wrench and cutter clamping bolt are included.
2. By using a clamping screw with a through bore, coolant is supplied through the screw.

Smart Damper Basic Holders for Screw on



Model	Article No.	ØD1	ØD2	L	L1	L2	α	Damper Head Model	Weight (kg)
BBT50-SDF20-39-95T	100022.002.0	39	43.1	250	95	202.4	2°	SDF20-M16DO-29-155T	4.20
BBT50-SDF20-39-145T	100022.003.0	39	47.5	300	145	252.4	2°	SDF20-M16DO-29-155T	4.80
BBT50-SDF28-50-70T	100022.004.0	50	52.1	250	70	204.3	2°	SDF28-M16DP-38-180T	4.20
BBT50-SDF28-50-120T	100022.005.0	50	56.3	300	120	252.4	2°	SDF28-M16DP-38-180T	5.10
BBT50-SDF28-50-170T	100022.006.0	50	60.7	350	170	302.4	2°	SDF28-M16DP-38-180T	6.20

1. BIG-PLUS® tools can be used in machining centers with non BIG-PLUS® spindles.



	Model	Article No.	ØD1	ØD2	L	L1	L2	α	Damper Head Model	Weight (kg)
NEW	HSK-A100-SDF20-39-95T	-	39	44.1	250	95	203.4	2	SDF20-M16DO-29-155T	2.90
NEW	HSK-A100-SDF20-39-145T	-	39	48.4	300	145	253.4	2	SDF20-M16DO-29-155T	3.60
NEW	HSK-A100-SDF28-50-120T	-	50	57.2	300	120	258.2	2	SDF28-M16DP-38-180T	3.80
NEW	HSK-A100-SDF28-50-170T	-	50	61.6	350	170	308.2	2	SDF28-M16DP-38-180T	4.90

1. Coolant pipe (CL) is to be ordered separately.

Smart Damper Heads for Screw On

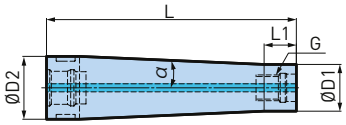


Fig. 1

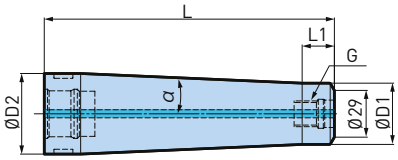
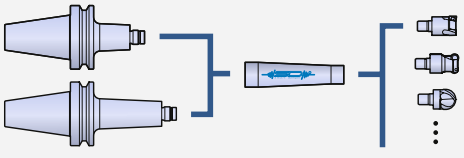


Fig. 2

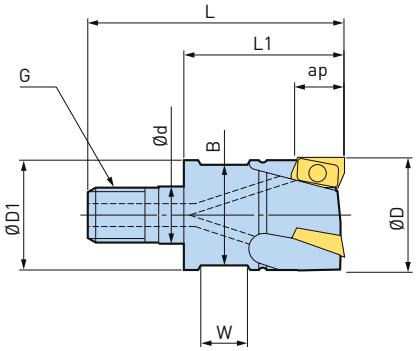
Model	Article No.	Fig.	ØD1	ØD2	L	L1	α	G	Weight (kg)
SDF20-M16DP-29-155T	101255.001.0	1	29	39	155	20	2.5°	M16	1.20
SDF28-M16DP-38-180T	101255.002.0	2	38	50	180	20	2.5°	M16	2.50



Basic Holder **Damper head** **Cutter**

⚠ Caution
Damper head becomes unremovable from the basic holder once they are used for machining after assembly.

Full Cut Mill for Screw On FCR Type

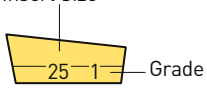


	Model	Article No.	G	Ød	ØD	ØD1	ap	L	L1	Number of Inserts	B	W	Insert	Weight (kg)
NEW	M8-FCR16082-25	-	M8	8.5	16	15	8	42.5	25	2	12	6.2	BRG1608	0.03
NEW	M10-FCR20083-30	-	M10	10.5	20	19	8	49	30	3	17	8.2	BRG2008	0.05
NEW	M12-FCR25083-35	-	M12	12.5	25	24	8	56	35	3	22	10.2	BRG2508	0.10
NEW	M16-FCR32102-40	-	M16	17	32	29	10	63	40	2	26	12.2	BRG3210	0.20
NEW	M16-FCR32103-40	-	M16	17	32	29	10	63	40	3	26	12.2	BRG3210	0.18

1. A screwdriver for insert clamping is included, but inserts are not.
2. A wrench for tightening the head is not included. Please use a comercially avaliable one.
3. For main body shanks with L=100mm or more, we recommend using two flutes when performing medium to heavy cutting in full material.

Indexable Inserts for Fullcut Mill FCR

Marking Description



1: ACZ310
2: DS20
P3: ACP300
3F: ACM300F

Model	ØD	ap	R	Insert Grade	Material
BRG160808(DS20)	16 - 17	8	0.8	DS20	Aluminium
BRG160808(ACM300F)	16 - 17	8	0.8	ACM300F	Stainless Steel
BRG160808(ACP300)	16 - 17	8	0.8	ACP300	General Steel
BRG160808(ACZ310)	16 - 17	8	0.8	ACZ310	Cast iron
BRG200808(DS20)	20 - 21	8	0.8	DS20	Aluminium
BRG200808(ACM300F)	20 - 21	8	0.8	ACM300F	Stainless Steel
BRG200808(ACP300)	20 - 21	8	0.8	ACP300	General Steel
BRG200808(ACZ310)	20 - 21	8	0.8	ACZ310	Cast iron
BRG250808(DS20)	25 - 26	8	0.8	DS20	Aluminium
BRG250808(ACM300F)	25 - 26	8	0.8	ACM300F	Stainless Steel
BRG250808(ACP300)	25 - 26	8	0.8	ACP300	General Steel
BRG250808(ACZ310)	25 - 26	8	0.8	ACZ310	Cast iron
BRG321008(DS20)	32 - 33	10	0.8	DS20	Aluminium
BRG321008(ACM300F)	32 - 33	10	0.8	ACM300F	Stainless Steel
BRG321008(ACP300)	32 - 33	10	0.8	ACP300	General Steel
BRG321008(ACZ310)	32 - 33	10	0.8	ACZ310	Cast iron
BRG321032(DS20)	32 - 33	10	3.2	DS20	Aluminium

1. Inserts are available in a packet of 10 pcs.

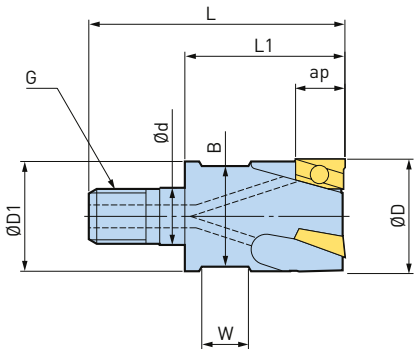
Insert classifications

ISO	Grade	Material	Coating
P30	ACP300	General steel	TiAlN / TiCN
M30	ACM300F	Stainless steel	
K10	ACZ310	Cast iron	
N20	DS20	Aluminium	DLC

Caution

- It is important to use the correct insert for the diameter of Fullcut Mill. Failure to use the correct insert will result in incorrect cutting conditions and poor results.
- There is no compatibility with those of FCM type.

Full Cut Mill for Screw On FCM Type

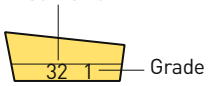


	Model	Article No.	G	Ød	ØD	ØD1	ap	L	L1	Number of Inserts	B	W	Insert	Weight (kg)
NEW	M8-FCM16092-25	-	M8	8.5	16	15	9	42.5	25	2	12	6.2	ARG1609	0.03
NEW	M10-FCM20093-30	-	M10	10.5	20	19	9	49	30	3	17	8.2	ARG2009	0.05
NEW	M12-FCM25093-35	-	M12	12.5	25	24	9	56	35	3	22	10.2	ARG2509	0.10
NEW	M16-FCM32112-40	-	M16	17	32	29	11	63	40	2	26	12.2	ARG3211	0.20
NEW	M16-FCM32113-40	-	M16	17	32	29	11	63	40	3	26	12.2	ARG3211	0.20
NEW	M16-FCM40112-40	-	M16	17	40	29	11	63	40	2	32	16.8	ARG4011	0.25
NEW	M16-FCM40114-40	-	M16	17	40	29	11	63	40	4	32	16.8	ARG4011	0.25

1. A screwdriver for insert clamping is included, but inserts are not.
2. A wrench for tightening the head is not included. Please use a comercially avaliable one.
3. For main body shanks with L=100mm or more, we recommend using two flutes when performing medium to heavy cutting in full material.

Indexable Inserts for Fullcut Mill FCM

Marking Description

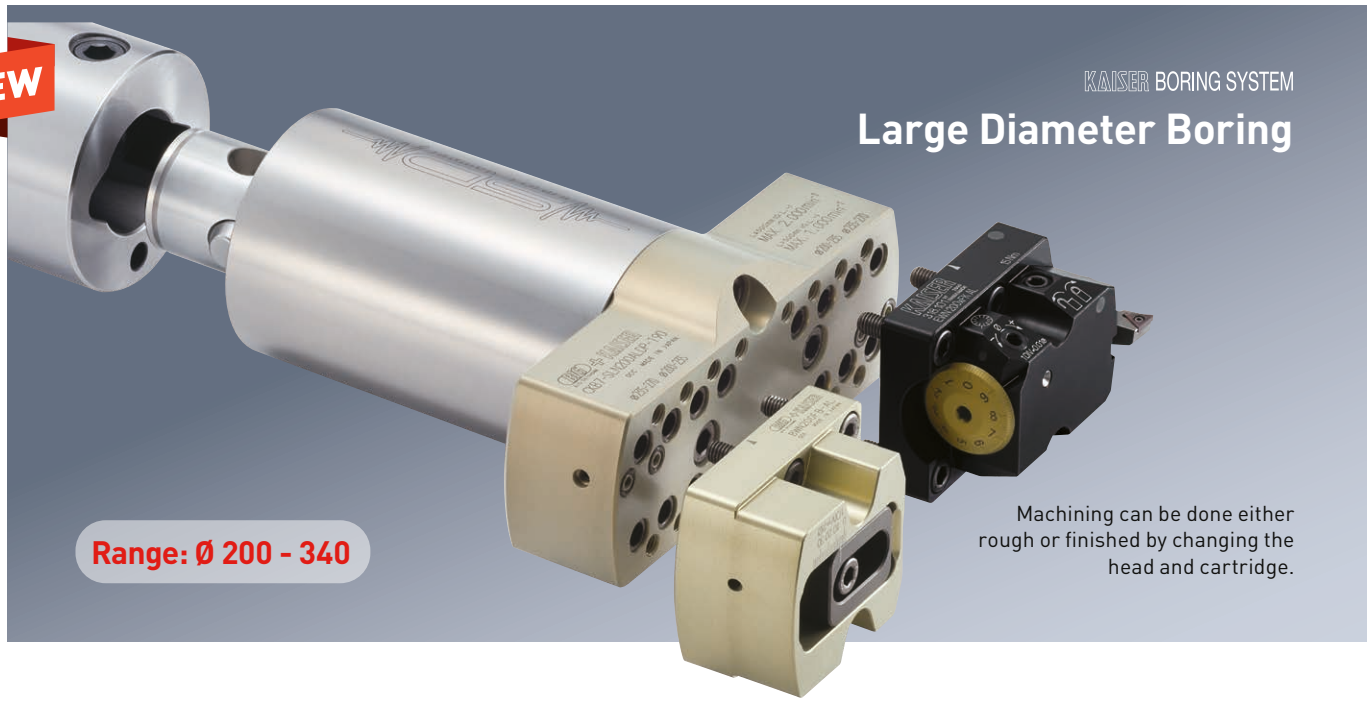


1: ACZ310
2: DS20
P2: ACP200
3F: ACM300F
P3: ACP300

Model	ØD	ap	R	Insert Grade	Material
ARG160902(DS20)	12 - 17	9	0.2	DS20	Aluminium
ARG160902(ACM300F)	12 - 17	9	0.2	ACM300F	Stainless Steel
ARG160902(ACP300)	12 - 17	9	0.2	ACP300	General Steel
ARG160902(ACZ310)	12 - 17	9	0.2	ACZ310	Cast iron
ARG160904(DS20)	12 - 17	9	0.4	DS20	Aluminium
ARG160904(ACP200)	12 - 17	9	0.4	ACP200	Prehardened steel
ARG160904(ACM300F)	12 - 17	9	0.4	ACM300F	Stainless Steel
ARG160904(ACP300)	12 - 17	9	0.4	ACP300	General Steel
ARG160904(ACZ310)	12 - 17	9	0.4	ACZ310	Cast iron
ARG200902(DS20)	20, 21	9	0.2	DS20	Aluminium
ARG200902(ACM300F)	20, 21	9	0.2	ACM300F	Stainless Steel
ARG200902(ACP300)	20, 21	9	0.2	ACP300	General Steel
ARG200902(ACZ310)	20, 21	9	0.2	ACZ310	Cast iron
ARG200904(DS20)	20, 21	9	0.4	DS20	Aluminium
ARG200904(ACP200)	20, 21	9	0.4	ACP200	Prehardened steel
ARG200904(ACM300F)	20, 21	9	0.4	ACM300F	Stainless Steel
ARG200904(ACP300)	20, 21	9	0.4	ACP300	General Steel
ARG200904(ACZ310)	20, 21	9	0.4	ACZ310	Cast iron
ARG250902(DS20)	25, 26	9	0.2	DS20	Aluminium
ARG250902(ACM300F)	25, 26	9	0.2	ACM300F	Stainless Steel
ARG250902(ACP300)	25, 26	9	0.2	ACP300	General Steel
ARG250902(ACZ310)	25, 26	9	0.2	ACZ310	Cast iron
ARG250904(DS20)	25, 26	9	0.4	DS20	Aluminium
ARG250904(ACP200)	25, 26	9	0.4	ACP200	Prehardened steel
ARG250904(ACM300F)	25, 26	9	0.4	ACM300F	Stainless Steel
ARG250904(ACP300)	25, 26	9	0.4	ACP300	General Steel
ARG250904(ACZ310)	25, 26	9	0.4	ACZ310	Cast iron

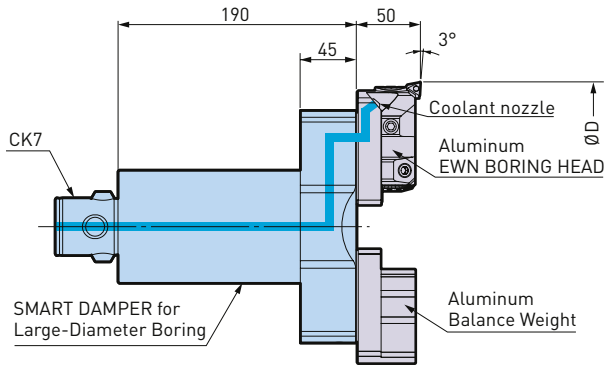
Model	ØD	ap	R	Insert Grade	Material
ARG321102(DS20)	32, 33	11	0.2	DS20	Aluminium
ARG321102(ACM300F)	32, 33	11	0.2	ACM300F	Stainless Steel
ARG321102(ACP300)	32, 33	11	0.2	ACP300	General Steel
ARG321102(ACZ310)	32, 33	11	0.2	ACZ310	Cast iron
ARG321104(DS20)	32, 33	11	0.4	DS20	Aluminium
ARG321104(ACP200)	32, 33	11	0.4	ACP200	Prehardened steel
ARG321104(ACM300F)	32, 33	11	0.4	ACM300F	Stainless Steel
ARG321104(ACP300)	32, 33	11	0.4	ACP300	General Steel
ARG321104(ACZ310)	32, 33	11	0.4	ACZ310	Cast iron
ARG401102(DS20)	40, 50	11	0.2	DS20	Aluminium
ARG401102(ACM300F)	40, 50	11	0.2	ACM300F	Stainless Steel
ARG401102(ACP300)	40, 50	11	0.2	ACP300	General Steel
ARG401102(ACZ310)	40, 50	11	0.2	ACZ310	Cast iron
ARG401104(DS20)	40, 50	11	0.4	DS20	Aluminium
ARG401104(ACP200)	40, 50	11	0.4	ACP200	Prehardened steel
ARG401104(ACM300F)	40, 50	11	0.4	ACM300F	Stainless Steel
ARG401104(ACP300)	40, 50	11	0.4	ACP300	General Steel
ARG401104(ACZ310)	40, 50	11	0.4	ACZ310	Cast iron

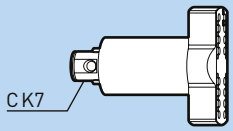
1. ACP300 is first recommendation for steel and ACM300F is first recommendation for stainless steel.
2. Inserts are available in a packet of 10 pcs.



Smart Damper EWN Fine Boring Head, Ø 200 - 340

Fusing a lightweight aluminum slide with the built-in damper SMART DAMPER.

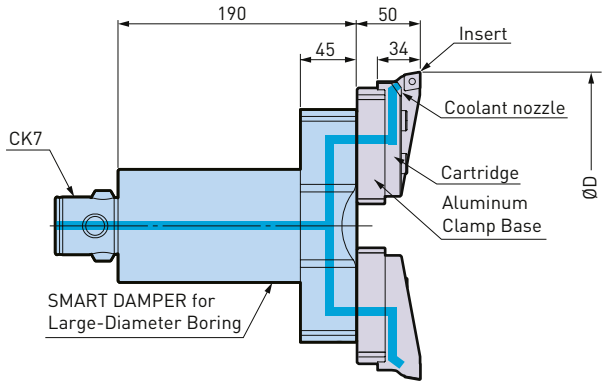


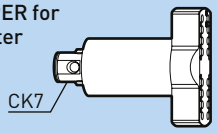
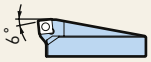
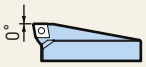
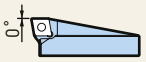
ØD	SMART DAMPER for Large-Diameter Boring 		Aluminum EWN BORING HEAD 		Aluminum Balance Weight  Weights can be adjusted according to the diameter.		Insert
	Model	Weight (kg)	Model	Weight (kg)	Model	Weight (kg)	
200 - 270	CKB7-SLN200ALDP-190	11.90	EWN200AL With ENH7-1 Insert Holder	0.80	BWN200FB-AL	0.80	TC11
NEW 270 - 340	CKB7-SLN270ALDP-190	12.50					

1. ENH7-1 Insert Holder is included.
2. Inserts are to be ordered separately.
3. Cutting edge and drive key grooves are located in the same orientation.

Smart Damper Large Diameter Rough Boring Tools, Ø 200 - 340

Fusing a lightweight aluminum slide with the built-in damper SMART DAMPER.

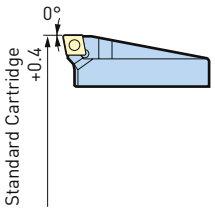


ØD	SMART DAMPER for Large-Diameter Boring 		Aluminum Clamp Base (2-piece set) 		Cartridge (2-piece set) 			Insert
	Model	Weight (kg)	Model	Weight (kg)	Model		Weight (kg)	
200 - 270	CKB7-SLN200ALDP-190	11.90	CB-TW200-AL	0.80	TW200A		0.69	SC12
270 - 340	CKB7-SLN270ALDP-190	12.50			TW200E		0.69	CC12
NEW 270 - 340	CKB7-SLN270ALDP-190	12.50			TW200EL		0.68	CC16

1. Clamp Bases and Cartridges are sold as a two-piece set. The weight in the table is that of 2 pieces.
2. Insert is to be ordered separately.
3. Cutting edge and drive keys are aligned in the same direction.

E Type Cartridge for Step Cutting

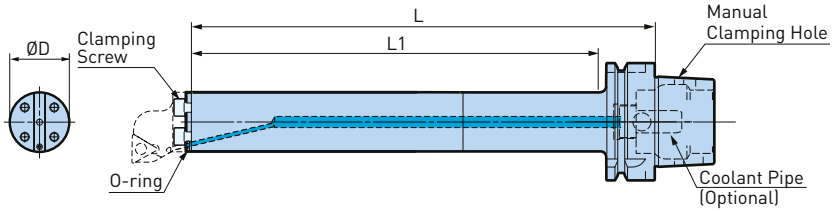
0.4mm higher cartridge enables larger depth of cut.



Model	Insert
TW200E-SC	CC12
TW200EL-SC	CC16

Offered by 1 pce.

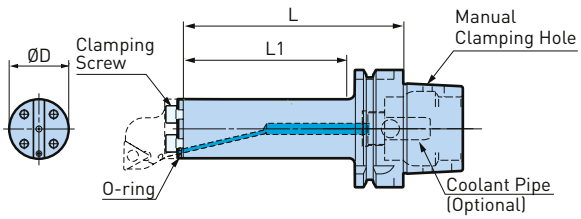
Smart Damper Turning Adapter



	Model	Article No.	Cartridge	ØD	L	L1	Clamp Screw	O-Ring	Weight (kg)
	HSK-T63-SDB40DP-172	101127.001.0	B32	32	172	145	C0510(M5x10L)	SDB20 OR-2P	1.90
	HSK-T63-SDB40DP-250	101127.002.0	B32	32	250	219	C0510(M5x10L)	SDB20 OR-2P	2.40
	HSK-T63-SDB50DP-235	101127.003.0	B40	40	235	204	C0610(M6x10L)	SDB20 OR-2P	3.40
	HSK-T63-SDB50DP-315	101127.004.0	B40	40	315	284	C0610(M6x10L)	SDB20 OR-2P	4.10
NEW	HSK-T63-SDB60DP-268	-	B40	50	268	237	C0610(M6x10L)	SDB20 OR-2P	5.50
NEW	HSK-T63-SDB60DP-368	-	B40	50	368	337	C0610(M6x10L)	SDB20 OR-2P	7.00
NEW	HSK-T100-SDB40DP-255	-	B32	32	255	221	C0510(M5x10L)	SDB20 OR-2P	3.60
NEW	HSK-T100-SDB50DP-320	-	B40	40	320	286	C0610(M6x10L)	SDB20 OR-2P	5.40
NEW	HSK-T100-SDB60DP-400	-	B40	50	400	366	C0610(M6x10L)	SDB20 OR-2P	8.70

1. Clamp bolts (3 pcs.) and o-rings (2 pcs.) are included.
2. Cartridge is to be ordered separately.
3. Coolant pipe (CL) and inserts are to be ordered separately.

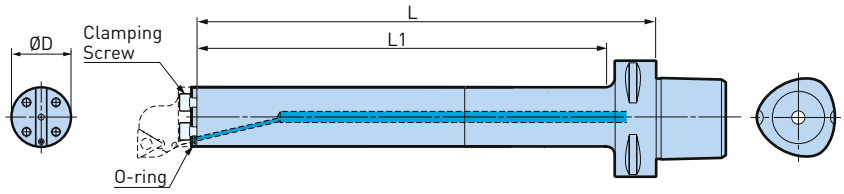
Turning Adapter



	Model	Article No.	Cartridge	ØD	L	L1	Clamp Screw	O-Ring	Weight (kg)
	HSK-T63-TAD40-125	101128.001.0	B32	32	125	94	C0510(M5x10L)	SDB20 OR-2P	1.30
	HSK-T63-TAD50-155	101128.002.0	B40	40	155	124	C0610(M6x10L)	SDB20 OR-2P	1.90
NEW	HSK-T63-TAD60-195	-	B40	50	195	166	C0610(M6x10L)	SDB20 OR-2P	3.10
NEW	HSK-T100-TAD40-130	-	B32	32	130	96	C0510(M5x10L)	SDB20 OR-2P	2.50
NEW	HSK-T100-TAD50-160	-	B40	40	160	126	C0610(M6x10L)	SDB20 OR-2P	3.10
NEW	HSK-T100-TAD60-200	-	B40	50	200	166	C0610(M6x10L)	SDB20 OR-2P	4.50

1. Clamp bolts (3 pcs.) and o-rings (2 pcs.) are included.
2. Cartridge is to be ordered separately.
3. Coolant pipe (CL) and inserts are to be ordered separately.

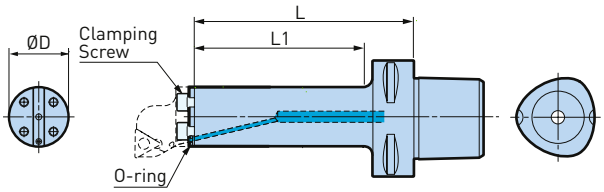
Smart Damper Turning Adapter



Model	Article No.	Cartridge	ØD	L	L1	Clamp Screw	O-Ring	Weight (kg)
C6-SDB40DP-168	101126.001.0	B32	32	168	145	C0510(M5x10L)	SDB20 OR-2P	2.00
C6-SDB40DP-245	101126.002.0	B32	32	245	218	C0510(M5x10L)	SDB20 OR-2P	2.50
C6-SDB50DP-230	101126.003.0	B40	40	230	203	C0610(M6x10L)	SDB20 OR-2P	3.40
C6-SDB50DP-310	101126.004.0	B40	40	310	283	C0610(M6x10L)	SDB20 OR-2P	4.20
NEW C6-SDB60DP-268	-	B40	50	268	241	C0610(M6x10L)	SDB20 OR-2P	5.70
NEW C6-SDB60DP-368	-	B40	50	368	341	C0610(M6x10L)	SDB20 OR-2P	7.20
NEW C8-SDB40DP-255	-	B32	32	255	220	C0510(M5x10L)	SDB20 OR-2P	3.40
NEW C8-SDB50DP-320	-	B40	40	320	285	C0610(M6x10L)	SDB20 OR-2P	5.10
NEW C8-SDB60DP-400	-	B40	50	400	365	C0610(M6x10L)	SDB20 OR-2P	8.50

1. Clamp bolts (3 pcs.) and o-rings (2 pcs.) are included.
2. Cartridge is to be ordered separately.
3. Inserts are not included.

Turning Adapter

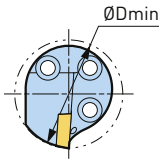


Model	Article No.	Cartridge	ØD	L	L1	Clamp Screw	O-Ring	Weight (kg)
C6-TAD40-120	101129.001.0	B32	32	120	93	C0510(M5x10L)	SDB20 OR-2P	1.40
C6-TAD50-150	101129.002.0	B40	40	150	123	C0610(M6x10L)	SDB20 OR-2P	2.00
NEW C6-TAD60-190	-	B40	50	190	163	C0610(M6x10L)	SDB20 OR-2P	3.20
NEW C8-TAD40-130	-	B32	32	130	95	C0510(M5x10L)	SDB20 OR-2P	2.30
NEW C8-TAD50-160	-	B40	40	160	125	C0610(M6x10L)	SDB20 OR-2P	2.90
NEW C8-TAD60-200	-	B40	50	200	165	C0610(M6x10L)	SDB20 OR-2P	4.20

1. Clamp bolts (3 pcs.) and o-rings (2 pcs.) are included.
2. Cartridge is to be ordered separately.
3. Inserts are not included.

Cartridges for Turning Adapter

Positive



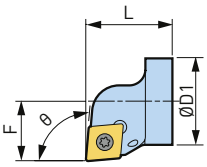


Fig. 1

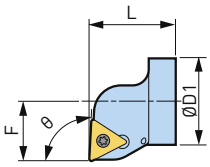


Fig. 2

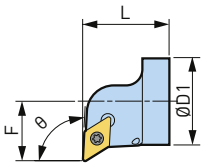


Fig. 3

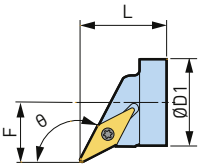
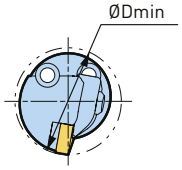


Fig. 4

Model	Article No.	Fig.	Type	Insert	Hand	ØD1	L	F	Entering Angle	Screw Set	Weight (kg)
B32-SDUCR-22032-11	806.426	3	B32	DC11T3	R	32	32	22	93°	S4 S-15IP	0.10
B32-STUCR-22032-11	806.802	2	B32	TC1102	R	32	32	22	93°	S2.5S-7IP	0.12
B32-SCLCR-22032-12	806.424	1	B32	CC1204	R	32	32	22	95°	S5 S-20IP	0.11
B32-STUPR-22032-16	806.425	2	B32	TP1604	R	32	32	22	93°	S4 S-15IP	0.11
B32-SVUBR 22032-16	-	4	B32	VB1604	R	32	32	22	93°	S3.5S-15IP	0.10
NEW B32-SVPBR-22032A-16	-	4	B32	VB1604	R	32	32	22	117.5°	S3.5S-15IP	0.09
B40-SDUCR-27032-11	806.429	3	B40	DC11T3	R	40	32	27	93°	S4 S-15IP	0.16
B40-STUCR-27032-11	806.803	2	B40	TC1102	R	40	32	27	93°	S2.5S-7IP	0.18
B40-SCLCR-27032-12	806.427	1	B40	CC1204	R	40	32	27	95°	S5 S-20IP	0.17
B40-STUPR-27032-16	806.428	2	B40	TP1604	R	40	32	27	93°	S4 S-15IP	0.17
B40-SVUBR-27032-16	-	4	B40	VB1604	R	40	32	27	93°	S3.5S-15IP	0.20
NEW B40-SVPBR-27032A-16	-	4	B40	VB1604	R	40	32	27	117.5°	S3.5S-15IP	0.13

Negative



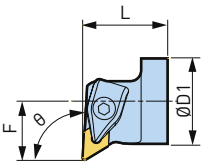


Fig. 1

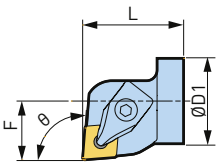


Fig. 2

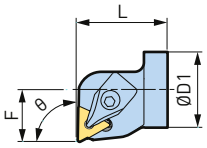


Fig. 3

Model	Article No.	Fig.	Type	Insert	Hand	ØD1	L	F	Entering Angle	Weight (kg)
B32-DDUNR-22032-11	807.404	1	B32	DN1104	R	32	32	22	93°	0.12
B32-DCLNR-22038-12	807.405	2	B32	CN1204	R	32	38	22	95°	0.15
B32-DTFNR-22038-16	-	3	B32	TN1604	R	32	38	22	91°	0.16
B40-DDUNR-27032-15	807.407	1	B40	DN1506*/ DN1504	R	40	32	27	93°	0.18
B40-DCLNR-27038-12	807.408	2	B40	CN1204	R	40	38	27	95°	0.23
B40-DTFNR-27038-16	-	3	B40	TN1604	R	40	38	27	91°	0.23

1. Wrench is included.
2. Inserts are to be ordered separately.
3. Carbide shim for 6.35 mm thick DN1506 insert is included as standard. In case of DN1504 insert (thickness of 4.76 mm), please replace the standard carbide shim with DNS1506 (option).

Application	Inner angle face machining	Copy machining		Blind hole machining	
Shape	80° rhombic	55° rhombic	35° rhombic	Triangular	
Screw-on type (for positive insert)	CC1204	DC11T3	VB1604	TP1604	TC1102
Double clamp type (for negative insert)	CN1204	DN1104 DN1504 DN1506	—	TN1604	

SF Hydraulic Chuck

Coolant Through Hole

BIG-PLUS Dual-Contact

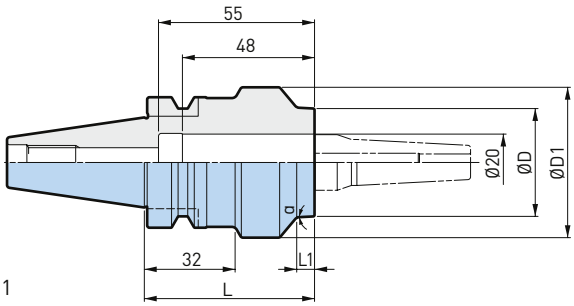


Fig. 1

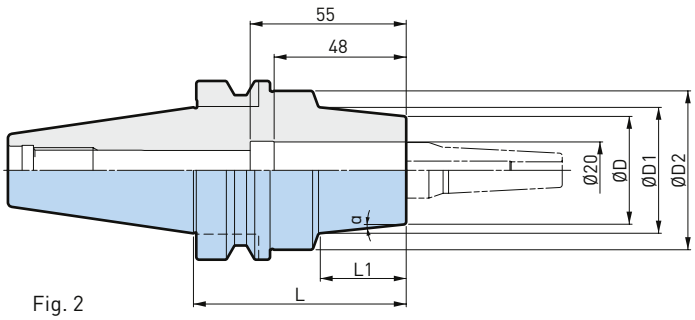


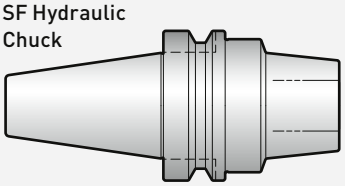
Fig. 2

	Model	Article No.	Fig.	ØD	ØD1	ØD2	L	L1	α	Weight (kg)
NEW	BBT30-HDC20SF-60	-	1	38	53	-	60	5	3	0.75
NEW	BBT40-HDC20SF-75	-	2	38	45	56	75	30	6	1.40

1. Adjusting screw cannot be used.

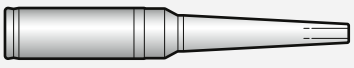
Combination according to application

SF Hydraulic Chuck



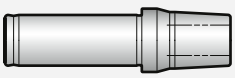
Combination example

SF Sleeve



ST20SF-SRM3-135

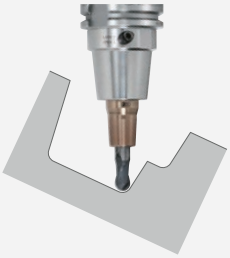
Minimizes work/jig interference,
For deep drilling and difficult
to access milling operations.



ST20SF-SRM12-90

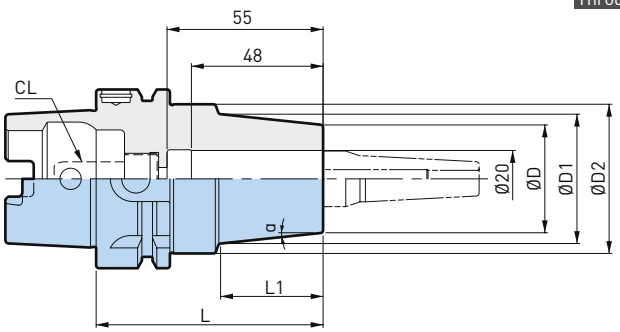
Reduces unnecessary tool projection
and increases machining efficiency.

Easy exchange of SF Sleeve with one wrench.



SF Hydraulic Chuck

Coolant Through Hole



	Model	Article No.	ØD	ØD1	ØD2	L	L1	α	Weight (kg)
NEW	HSK-A63-HDC20SF-80	-	38	46	53	80	36	6	1.20

1. Adjusting screw cannot be used.

SF Sleeve

Ø3-4: Made of Stainless Steel
Ø6-12: Made of Steel

⚠ Caution
Please do not shrink cutting tools with assembled SF Sleeve / SF Hydraulic Chuck combination.

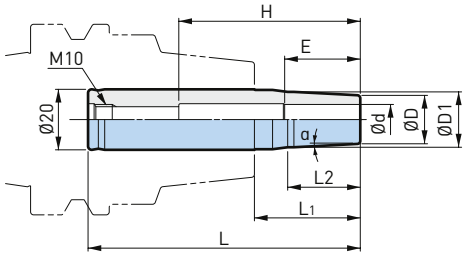


Fig. 1

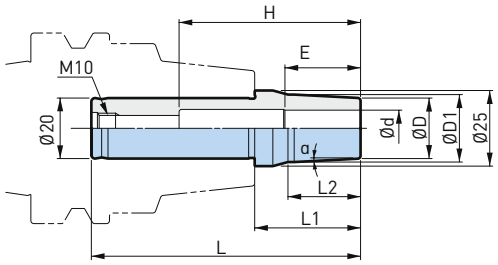
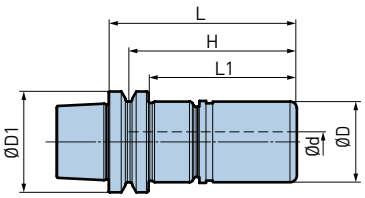


Fig. 2

	Model	Article No.	Fig.	Ød	ØD	ØD1	L	L1	α	H	E	Weight (kg)
NEW	ST20SF-SRM3-90 *	-	1	3	7.5	9.6	90	35	3	-	9	0.20
NEW	ST20SF-SRM3-110 *	-	1	3	7.5	11.7	110	55	3	-	9	0.20
NEW	ST20SF-SRM3-135 *	-	1	3	7.5	14.3	135	80	3	-	9	0.25
NEW	ST20SF-SRM4-90 *	-	1	4	10	12.1	90	35	3	-	12	0.20
NEW	ST20SF-SRM4-110 *	-	1	4	10	14.2	110	55	3	-	12	0.18
NEW	ST20SF-SRM4-135 *	-	1	4	10	16.8	135	80	3	-	12	0.25
NEW	ST20SF-SRM6-90	-	1	6	12	14.1	90	35	3	-	18	0.15
NEW	ST20SF-SRM6-110	-	1	6	12	16.2	110	55	3	-	18	0.18
NEW	ST20SF-SRM6-135	-	1	6	12	-	135	80	3	-	18	0.23
NEW	ST20SF-SRM8-90	-	1	8	14	16.1	90	35	3	-	20	0.15
NEW	ST20SF-SRM8-110	-	1	8	14	18.2	110	55	3	-	20	0.20
NEW	ST20SF-SRM8-135	-	1	8	14	-	135	80	3	-	20	0.23
NEW	ST20SF-SRM10-90	-	1	10	16	18.3	90	35	3	60	25	0.15
NEW	ST20SF-SRM10-110	-	1	10	16	-	110	55	3	60	25	0.20
NEW	ST20SF-SRM10-135	-	1	10	16	-	135	80	3	60	25	0.25
NEW	ST20SF-SRM12-90	-	2	12	20	22.3	89	35	3	60	25	0.18
NEW	ST20SF-SRM12-110	-	2	12	20	-	109	55	3	60	25	0.25
NEW	ST20SF-SRM12-135	-	2	12	20	-	134	80	3	60	25	0.30

1. *Models are made of stainless steel.

HSK-EZ15 MEGA Micro Chuck

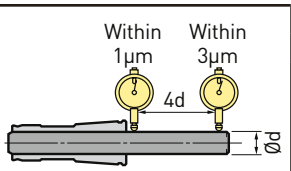


	Model	Article No.	Ød	ØD	ØD1	L	L1	H	Collet Model	Nut Model	Weight (kg)
NEW	HSK-EZ15-MEGA3S-25	-	0.45 - 2.35	10	15	25	18	22	NBC3S-	MGN3S	0.30
NEW	HSK-EZ15-MEGA4S-28	-	0.45 - 2.35	12	15	28	21	25	NBC4S-	MGN4S	0.30
NEW	HSK-EZ15-MEGA6S-30	-	0.45 - 2.35	14	15	30	23	27	NBC6S-	MGN6S	0.30

1. MEGA nut is included in delivery.
2. "H" is the max. tool shank length that can be inserted for these models.
3. Collet and wrench are to be ordered separately.

Micro Collets

For MEGA Micro Chuck
Available in 0.1 mm diameter increments to suit all the cutting tool shank sizes with maximum accuracy. Despite their compact size, high clamping force and accuracy are achieved.



Collet class	Max. runout	
	At nose	At end of test bar
AA	Within 1 µm	Within 3 µm

For MEGA 3S

Model	Article No.	Clamping Range
NBC3S-1.00AA	968.306	0.95 - 1.05 mm
NBC3S-2.00AA	968.316	1.95 - 2.05 mm
NBC3S-3.00AA	968.326	2.95 - 3.05 mm

For MEGA 4S

Model	Article No.	Clamping Range
NBC4-1.00AA	961.462	0.95 - 1.05 mm
NBC4-2.00AA	961.466	1.95 - 2.05 mm
NBC4-3.00AA	961.470	2.95 - 3.05 mm
NBC4-4.00AA	961.474	3.95 - 4.05 mm

For MEGA 6S

Model	Article No.	Clamping Range
NBC6S-1.00AA	961.477	0.95 - 1.05 mm
NBC6S-2.00AA	961.481	1.95 - 2.05 mm
NBC6S-3.00AA	961.485	2.95 - 3.05 mm
NBC6S-4.00AA	961.489	3.95 - 4.05 mm
NBC6S-5.00AA	961.493	4.95 - 5.05 mm
NBC6S-6.00AA	961.497	5.95 - 6.05 mm

1. More sizes are available. Please check our online catalogue.

MEGA Wrench

For MEGA Micro Chuck

Model	Article No.	Ød	MEGA Micro Chuck
MGR10	969.449	10	MEGA3S
MGR12	969.450	12	MEGA4S
MGR14	969.452	14	MEGA6S

MEGA Torque Wrench

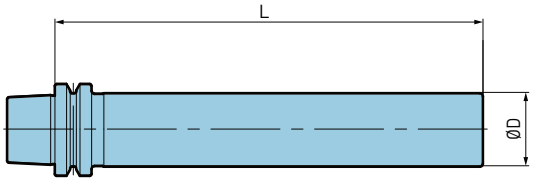
Engineered for accurate and secure nut tightening on MEGA Micro Chucks.

Model	Article No.	Ød	MEGA Micro Chuck
MGR10TL	805.460	10	MEGA3S
MGR12TL	969.451	12	MEGA4S
MGR12TLS	804.117		
MGR14TL	969.453	14	MEGA6S
MGR14TLS	978.379		

1. TLS models are recommended to tighten 3mm or smaller inner diameter collets.

Dyna Test

Regular inspection of the machine spindle to ensure production stability and operational precision.



Model	ØD	L
HSK-EZ15-12-L70	12	70

CKN with BBT Shank

With drive key grooves and orientation notch.

BIG-PLUS Dual-Contact

Coolant Through Hole

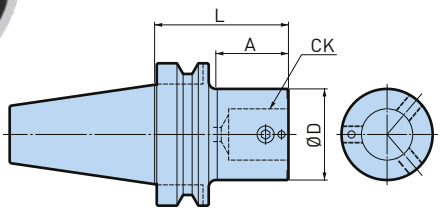


Fig. 1

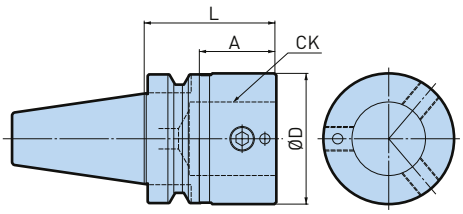


Fig. 2

	Model	Article No.	Fig.	CK	ØD	L	A	Weight (kg)
NEW	BBT40-CKN6-64	-	1	6	64	64	37	1.60
NEW	BBT50-CKN6-94	-	1	6	64	94	51	4.60
NEW	BBT50-CKN7-93	-	2	7	90	93	52	5.70

1. Cutting edge and drive key grooves are located in the same orientation.
2. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.

CKN with BDV Shank

With drive key grooves and orientation notch.

BIG-PLUS Dual-Contact

Coolant Through Hole

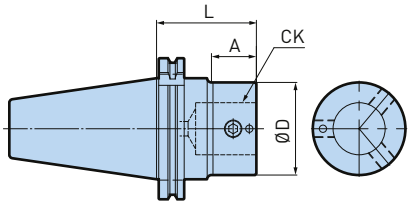


Fig. 1

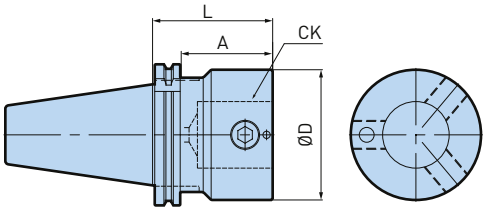


Fig. 2

	Model	Article No.	Fig.	CK	ØD	L	A	Weight (kg)
NEW	BDV40-CKN6-59	-	1	6	64	59	39	1.30
NEW	BDV50-CKN6-69	-	1	6	64	69	31	3.60
NEW	BDV50-CKN7-83	-	2	7	90	83	63	4.90

1. Cutting edge and drive key grooves are located in the same orientation.
2. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.

CKN with HSK-A Shank

With drive key grooves and orientation notch.

Coolant Through Hole

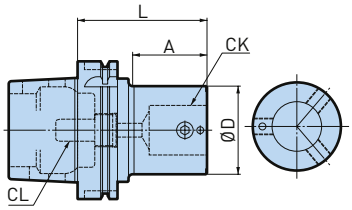


Fig. 1

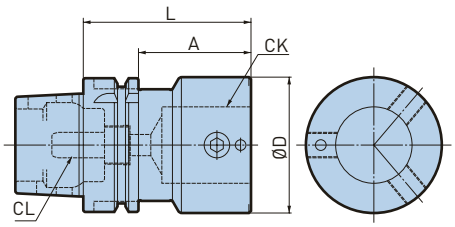


Fig. 2

	Model	Article No.	Fig.	CK	ØD	L	A	Weight (kg)
NEW	HSK-A63-CKN6-79	-	1	6	64	79	53	1.50
NEW	HSK-A100-CKN6-94	-	1	6	64	94	54	3.40
NEW	HSK-A100-CKN7-93	-	2	7	90	93	64	4.40

1. Coolant pipe (CL) is to be ordered separately.
2. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.
3. Cutting edge and drive key grooves are located in the same orientation.

CKN Double Connector

Coolant Through Hole

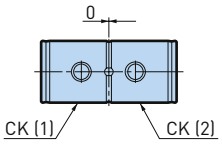


Fig. 1

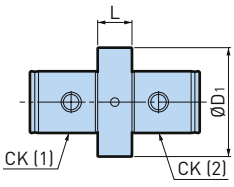


Fig. 2

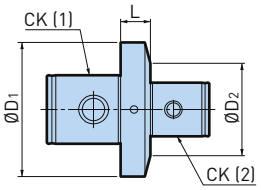


Fig. 3

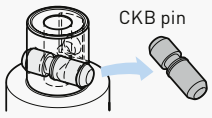
	Model	Article No.	Fig.	CK (1)	CK (2)	ØD1	ØD2	L	Weight (kg)
NEW	CKN66-0DC	-	1	6	6	-	-	0	0.45
NEW	CKN77-0DC	-	1	7	7	-	-	0	0.95
NEW	CKN66-20DC	-	2	6	6	64	-	20	0.95
NEW	CKN76-20DC	-	3	7	6	90	64	20	1.66
NEW	CKN77-25DC	-	2	7	7	90	-	25	2.00

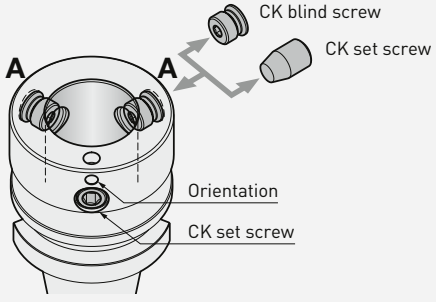
1. 2 pcs. of CK-screws are included.

CKN and CKB products: Composite screws

CKN connection system products (head side) come pre-installed with one CK set screw and two CK blind screws. When combining CKN products, replace the CK blind screw marked A with the CK set screw.

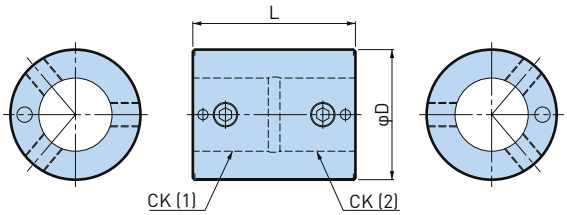
Installation of CKB products
For products with a CKB attached, please remove the CKB pin and connect the parts together.





CKN Extensions Aluminum

Coolant Through Hole

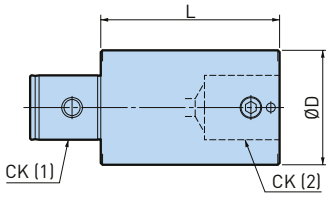


	Model	Article No.	CK (1)	CK (2)	ØD	L	Weight (kg)
NEW	CKN66N-80ALT	-	6	6	64	80	0.52
NEW	CKN66N-120ALT	-	6	6	64	120	0.82
NEW	CKN77N-100ALT	-	7	7	90	100	1.53
NEW	CKN77N-150ALT	-	7	7	90	150	2.25
NEW	CKN77N-200ALT	-	7	7	90	200	3.00

1. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.
2. 3 pcs. of CK-Screws on the Shank side are assembled.

CKN Extensions

Coolant Through Hole

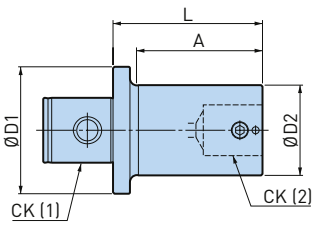


	Model	Article No.	CK (1)	CK (2)	ØD	L	Weight (kg)
NEW	CKN66-100	-	6	6	64	100	2.30
NEW	CKN77-105	-	7	7	90	105	4.78

1. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.
2. 2 pcs. of CK-screws are included.

CKN Reductions

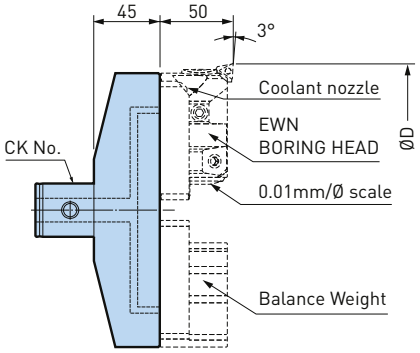
Coolant Through Hole



	Model	Article No.	CK (1)	CK (2)	ØD1	ØD2	L	A	Weight (kg)
NEW	CKN76-106	-	7	6	90	64	106	89	2.88

1. 2 pcs. of Blind Screws and 1 piece of CK-Screw are assembled.
2. 2 pcs. of CK-screws are included.

CKN Bridge Tools

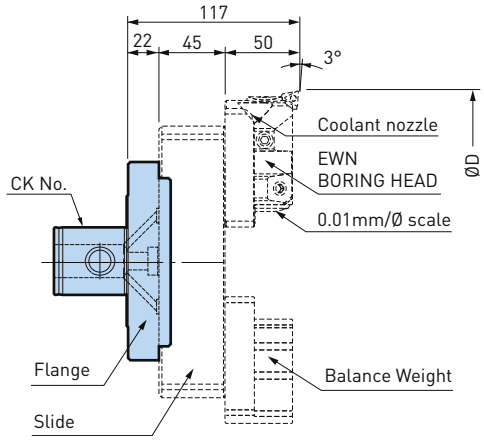


Coolant Through Hole

	Model	Article No.	CK	ØD	Weight (kg)
NEW	CKN6-FL200-270	-	6	200-270	1.83
NEW	CKN6-FL270-340	-	6	270-340	2.32

1. 2 pcs. of CK-screws are included.
2. Clamp base and Insert Holders can also be used for roughing.

CKN Bridge Tools



Coolant Through Hole

	Model	Article No.	CK	ØD	Weight (kg)
NEW	CKN7-FLN135	-	7	200-550	2.39
NEW	CKN7-FLN135-90	-	7	200-550	2.39

1. 2 pcs. of CK-screws are included.
2. Clamp base and Insert Holders can also be used for roughing.

Blindscrew

To connect CKN and CKB.

	Article No.	CK	M	Wrench
NEW CK6BS	-	6	M12XP1.0	4mm
NEW CK7BS	-	7	M20XP1.5	6mm

1. 1 piece per package.

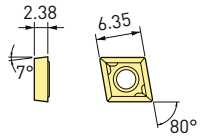
Clamping screw Set

CKN Clamping screw Set consists of 2 screws and one key.

	Model	Article No.	CK	M	Wrench
NEW	CK6S	805.892	6	M12XP1.0	6mm
NEW	CK7S	-	7	M20XP1.5	10mm

1. 2 screws and 1 wrench are included

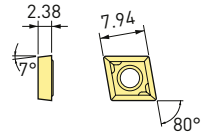
CC_0602



for ENH4-1F ~ ENH5-3F SW2026E, SW2531E, SW2533E, SW3240E

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	CCGP060204FLB(H1)	0.4	2	Aluminum	Carbide (K10)

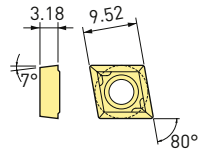
CC_0702



for ENH6-1F ~ ENH6-3F, ENH7-1F

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	CCGP070204FLB(H1)	0.4	2	Aluminum	Carbide (K10)

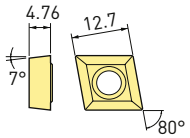
CC_0903



for SW3242E, SW4151E, SW4154E, SW5366E

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	CCGM090304FLB(H1)	0.4	2	Aluminum	Carbide (K10)

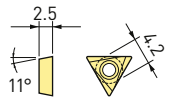
CC_1204



for SW5370E, SW6986E, SW6890E, SW88110E, SW98126E, SW125153E, SW148176E, SW175203E
TW200E, TW200E-SC

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	CCGM120404FLB(H1)	0.4	2	Aluminum	Carbide (K10)

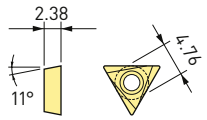
TP07



for ENH1-1TP07/ENH2-1TP07 Boring Bar ST7W-EB8/EB12

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	TPGD070202FN(CW10HA)	0.2	3	Hardened Steel	Coated Carbide
NEW	2	TPGD070204FN(CW10HA)	0.4	3	Hardened Steel	Coated Carbide

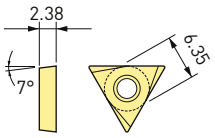
TP08



for EBH3-1 / ENH1, 2, 3 / ENH3, 4, 5 / EB09N-46N

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	TPGD080204FN(CW10HA)	0.2	3	Hardened Steel	Coated Carbide
NEW	2	TPGD080202FN(CW10HA)	0.4	3	Hardened Steel	Coated Carbide

TC11



for ENH4~ENH7 ENH6-1J - ENH6-3J ENH7-1J EBH4~6 EB17AJ~EB40AJ

	No.	Model	R	Cutting edges	Workpiece	Material / coating
NEW	1	TCGT110202FN(CW10HA)	0.2	3	Hardened Steel	Coated Carbide
NEW	2	TCGT110204FN(CW10HA)	0.4	3	Hardened Steel	Coated Carbide

CC_0602 CC_0702 CC_0903 CC_1204 TP07 TP08 TC11

Square Bit Holder Spike Screw Type

C4S (Extra short version)

C4 (ATC version)

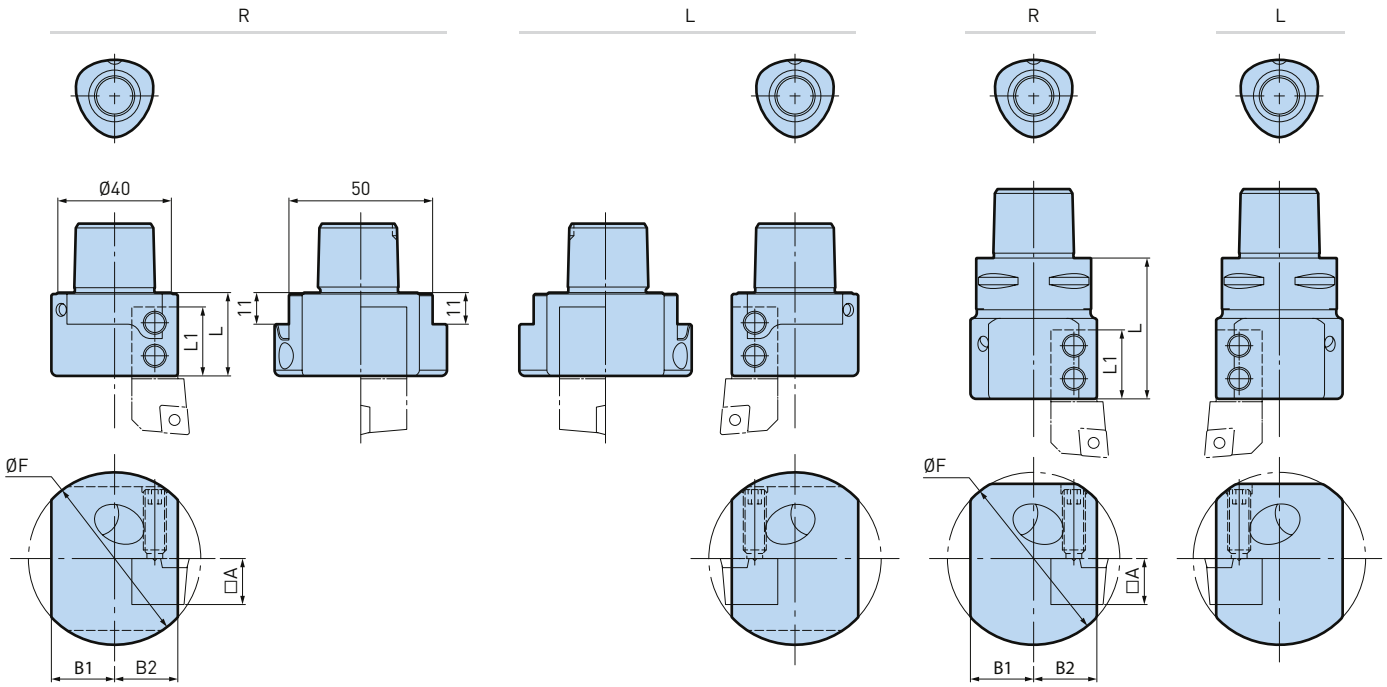


Fig. 1 Fig. 2 Fig. 3 Fig. 4

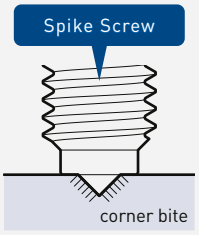
Model	Article No.	Fig.	Hand	□A	B1	B2	L	L1	ØF	Weight (kg)
NEW C4S-180-BHS16L-2229	-	2	L	16	22	22	29	24	60	0.52
NEW C4S-180-BHS16R-2229	-	1	R	16	22	22	29	24	60	0.52
NEW C4-180-BHS16L-2249	-	4	L	16	22	22	49	24	60	0.69
NEW C4-180-BHS16R-2249	-	3	R	16	22	22	49	24	60	0.69

1. Screws are included in delivery.
2. Before use, cut the square tool to be attached so that it protrudes as little as possible from the holder.
3. C4S Models are not compatible with ATC.

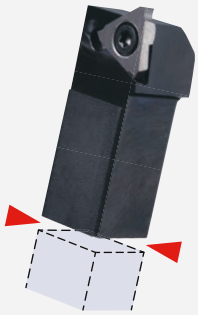
Spike Screw

Model
BHS0824-2P

1. 2 pcs. in a set

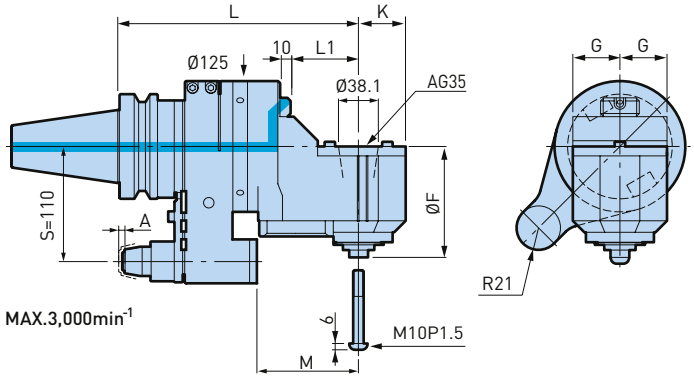


Spike screw type
The spike (protruding part) at the tip of the screw bites into the square bit to prevent slippage.



Please prepare a square bit of □16 mm and cut it so that the holder protrudes as little as possible before use.

Angle Head Build up Type with center through coolant



Model	Article No.	ØF	L	L1	G	K	M	Head	Weight (kg)
BBT50-TAG90-AGH35-230-110	-	106	230	65	45	45	97	AG35	15.60
BBT50-TAG90-AGH35-230S-110	-	106	230	65	45	45	97	AG35	16.90

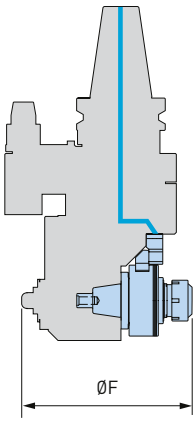
Model	Article No.	ØF	L	L1	G	K	M	Head	Weight (kg)
BDV50-TAG90-AGH35-230-110	-	106	230	65	45	45	97	AG35	15.60
BDV50-TAG90-AGH35-230S-110	-	106	230	65	45	45	97	AG35	16.90

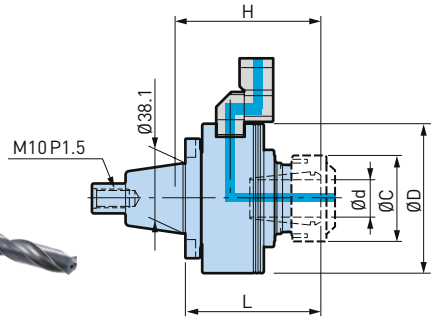
1. BIG-PLUS® tools can be used in machining centers with non BIG-PLUS® spindles.
2. Exclusive Stop Block is required.
3. Models with a "S" are high rigidity type.
4. The standard length A is 6 mm.
5. Coolant can be supplied through the locating pin.

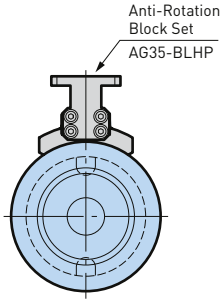
Anti-Rotation Block Set for Build-up type

Model	Article No.
AG35-BLHP	-

Adapter New Baby Chuck Type



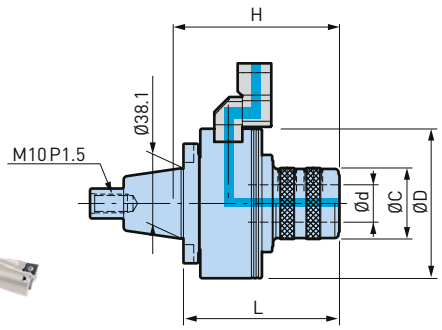


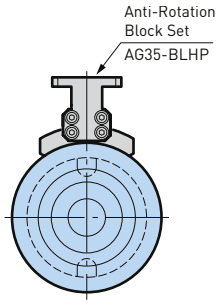


Model	Article No.	Ød	ØD	L	ØC	ØF	H	Head	Weight (kg)
NEW AG35-ONBS20HP	-	3-20	80	72.5	46	195	78	AG35	1.40

1. Baby Perfect Seal nut with sealing mechanism is required. (optional)
2. Wrench is to be ordered separately.
3. Anti-rotation block set is to be ordered separately. (Model: AG35-BL)
4. Max. coolant flow rate: 30 l/min, max. coolant pressure: 70 Bar.
5. "H" indicates the maximum cutting tool insertion length.
6. Applicable only for water-solved coolant.

Adapter Side Lock Type

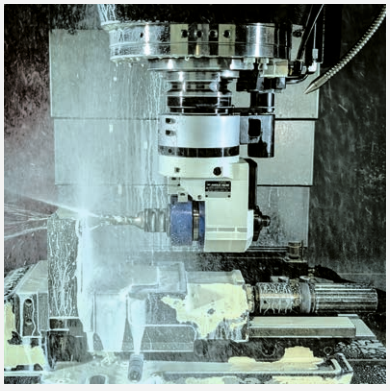




Model	Article No.	Ød	ØD	L	ØC	ØF	H	Head	Weight (kg)
NEW AG35-OSL20HP	-	20	80	83.5	38	198	89	AG35	1.60

1. Anti-rotation block set is to be ordered separately. (Model: AG35-BL)
2. Max. coolant flow rate: 30 l/min, max. coolant pressure: 70 Bar.
3. "H" indicates the maximum cutting tool insertion length.
4. Applicable only for water-solved coolant.

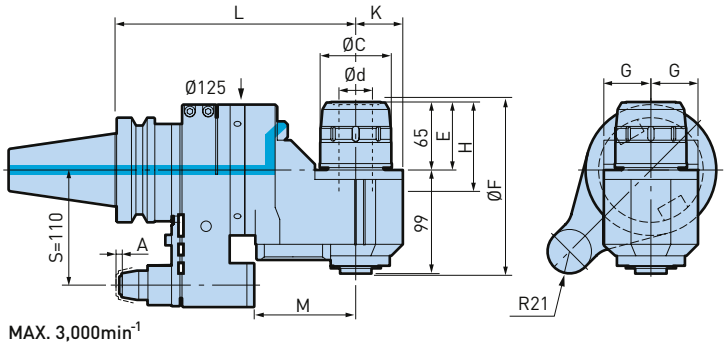
Machining Examples -Drilling



Angle Head	BBT50-TAG90/AGH35-230S	
Adapter	AG35-ONBS20HP	AG35-OSL20HP
Tools	Ø 10 Solid carbide drill	Ø17 cutting-edge interchangeable drill
Workpiece	SUS304 C50	C50
Cutting Depth	50 mm (5xD)	50 mm (3xD)
Cutting Speed	80 m/min	120 m/min
Feed per Revolution	0.2 mm/rev	0.1 mm/rev
Rotation Speed	2,546 min-1	2,247 min-1
Table Feed	509 mm/min	225 mm/min
Coolant	70 Bar	50 Bar

Results: Chip evacuation and edge cooling improved machining conditions.

Angle Head HMC Type

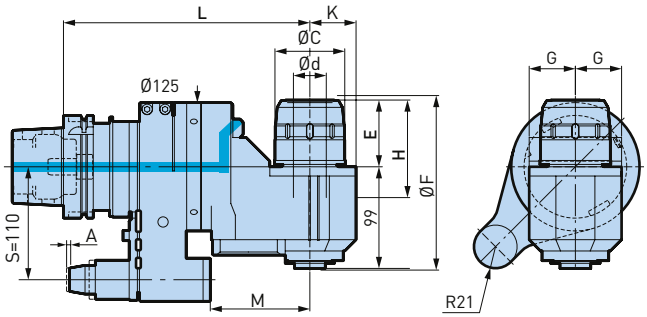


MAX. 3,000min^{-1}

Model	Article No.	Ød	E	H	ØC	ØF	L	G	K	M	Weight (kg)
BBT50-TAG90-HMC32S-230-110	-	32	65	95	68	170	230	45	45	97	16.80
BBT50-TAG90-HMC32S-230S-110	-	32	65	95	68	170	230	45	45	97	18.10

Model	Article No.	Ød	E	H	ØC	ØF	L	G	K	M	Weight (kg)
BDV50-TAG90-HMC32S-230-110	-	32	65	95	68	170	230	45	45	97	16.80
BDV50-TAG90-HMC32S-230S-110	-	32	65	95	68	170	230	45	45	97	18.10

1. BIG-PLUS® tools can be used in machining centers with non BIG-PLUS® spindles.
2. Exclusive Stop Block is required.
3. Models with a "S" are high rigidity type.
4. The standard length A is 6 mm.
5. Wrench (FK80-90) is included.
6. „ØF" indicates the minimum dimension for access into the bore.



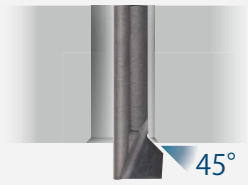
MAX. 3,000min^{-1}

Model	Article No.	Ød	E	H	ØC	ØF	L	G	K	M	Weight (kg)
HSK-A100-TAG90-HMC32S-240-110	-	32	65	95	68	170	240	45	45	97	16.00
HSK-A100-TAG90-HMC32S-240S-110	-	32	65	95	68	170	240	45	45	97	17.30

1. Exclusive Stop Block is required.
2. Models with a "S" are high rigidity type.
3. The standard length A is 6 mm.

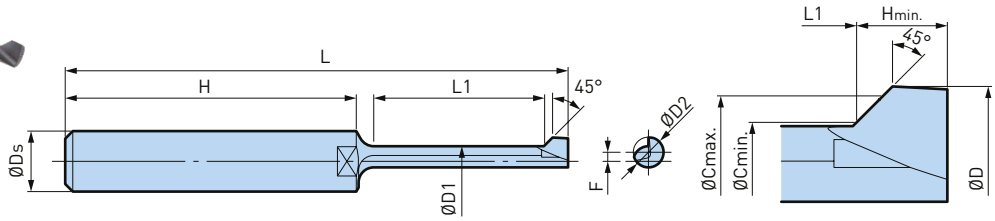
C-CUTTER MICRO (For Back Chamfering)

For small Tap Hole M4 and M5.



Tap bottom hole size: M4 and M5

M4 M5



Model	Article No.	ØD	ØD1	ØDs	L	L1	H	ØC min.	ØC max.	H min	F	Weight (kg)
NEW ST6W-CM04-45B-14	-	5.9	3.1	6	58	14	38	3.3	4.5	2.4	1.1	0.02
NEW ST8W-CM05-45B-17	-	7.9	4	8	62	17	38	4.2	5.6	3.1	1.2	0.04
NEW ST8W-CM05-45B-22	-	7.9	4	8	67	22	38	4.2	5.6	3.1	1.2	0.04

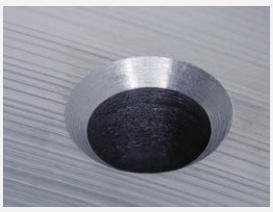
1. The cutting edge is made of CIN-coated carbide.
2. When aligning the machine spindle, the offset direction and phase position of the cutting edge should be within 0.1 mm when measured on a flat surface with a test indicator.

Cutting Conditions

Workpiece material	Cutting speed Vc (m/min)	Feed rate per insert fz (mm/t)
Unalloyed Steel, Carbon Steel, Alloy Steel	30 - 60	0.02 - 0.08
Cast Iron/Ductile Cast Iron	30 - 80	0.04 - 0.10
Aluminum/Non-ferrous	50 - 100	0.03 - 0.10

1. This table is a guideline for selecting cutting parameters. Adjust them as needed according to the machine and workpiece conditions.
2. Generally, wet cutting provides a better surface finish.
3. Lower the feed if secondary burrs appear.

Machining examples / M4 tapped hole backfilling

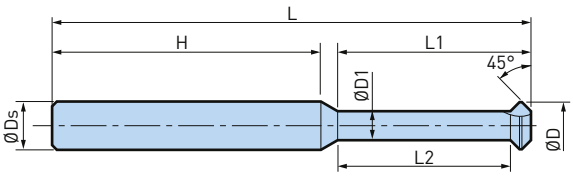


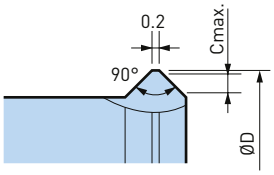
C-Cutter Micro Model	ST6W-CM04-45B-14
Workpiece Material	C50
Hole Diameter	Ø 3.3
Chamfer Diameter	Ø 4.5
Cutting Speed Vc (m/min)	50
Rotation Speed n (min^{-1})	3,537
Feed Rate f (mm/rev)	0.05
Feed Rate Vf (mm/min)	177

⚠ Caution

Keep the tool projection length as short as possible. Stop using the tool if it receives strong impact such as collision. The tool becomes hot during cutting. There is a risk of burn if touched immediately after use. Use protective equipment such as safety enclosures and glasses against scattering chips or tool breakage caused by accidents.

C-CUTTER MICRO (For Standard type)





	Model	Article No.	ØD	ØD1	ØDs	L	L1	L2	H	ØC max.	Weight (kg)
NEW	ST3W-CS2-45B-04	-	2.9	1.1	3	40	4	3	-	0.3	0.01
NEW	ST3W-CS2-45B-08	-	2.9	1.2	3	40	8	7	-	0.25	0.01
NEW	ST3W-CS3-45B-06	-	2.9	1.7	3	40	6	4.5	33	0.5	0.01
NEW	ST3W-CS3-45B-12	-	2.9	1.9	3	40	12	10.5	27	0.4	0.01
NEW	ST4W-CS4-45B-08	-	3.9	2.1	4	45	8	6	35.5	0.8	0.01
NEW	ST4W-CS4-45B-16	-	3.9	2.4	4	45	16	14	27.5	0.65	0.01
NEW	ST5W-CS5-45B-10	-	4.9	2.5	5	50	10	7	37.5	1.1	0.02
NEW	ST5W-CS5-45B-20	-	4.9	2.8	5	50	20	17.5	28	0.95	0.02
NEW	ST6W-CS6-45B-12	-	5.9	3	6	50	12	8.5	35.5	1.35	0.02
NEW	ST6W-CS6-45B-24	-	5.9	3.4	6	60	24	21	33.5	1.15	0.02
NEW	ST8W-CS8-45B-16	-	7.9	4	8	60	16	11.5	40.5	1.85	0.04
NEW	ST8W-CS8-45B-32	-	7.9	4.5	8	70	32	28	35	1.6	0.04

1. Cutting edge material is CrN coated carbide. All models have 3 cutting edges.

Cutting Conditions

Workpiece material	Cutting speed Vc (m/min)	Feed rate per insert fz (mm/t)
Unalloyed Steel, Carbon Steel, Alloy Steel	70 - 100	0.05 - 0.1
Stainless Steel	60 - 80	0.03 - 0.08
Cast Iron/Ductile Cast Iron	40 - 80	0.05 - 0.1
Aluminum/Non-ferrous	80 - 150	0.05 - 0.12

1. This table is a guideline for selecting cutting parameters. Adjust them as needed according to the machine and workpiece conditions.
2. Generally, wet cutting provides a better surface finish.
3. Back chamfering may require lower cutting conditions than front.
4. Lower the feed if secondary burrs appear.

⚠ Caution

Keep the tool projection length as short as possible. Stop using the tool if it receives strong impact such as collision.
The tool becomes hot during cutting. There is a risk of burn if touched immediately after use. Use protective equipment such as safety enclosures and glasses against scattering chips or tool breakage caused by accidents.

ACCU Stand - Magnetic Base Type

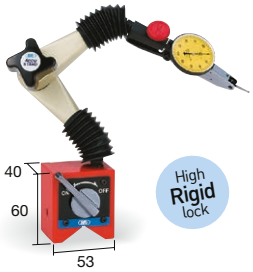
Flexible arm stand which locks solidly by the special cam mechanism.

Standard Type

Model
ASP-M

Mini Rigid Type

Model
AMP-M



Mini Type

Model
AM-M

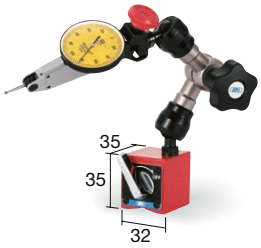
Firmly fixed with a powerful magnet.

1. Test indicators and dial gauges are not included with any model.

Compact yet tough arm and powerful clamp.

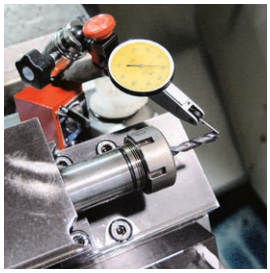
Mini-Mini Type (Short arm)

Model
AMM-M



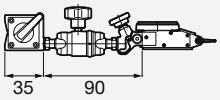
Mini-Mini Type (Long arm)

Model
AML-M

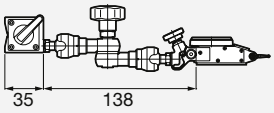


1. Test indicators and dial gauges are not included with any model.

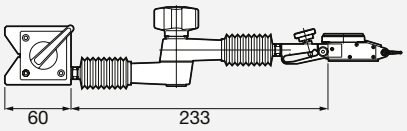
AMM-M



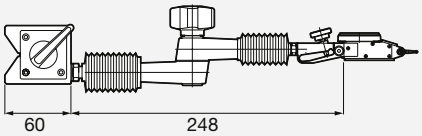
AML-M



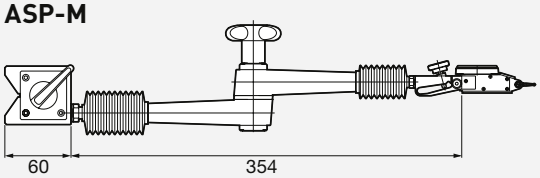
AM-M



AMP-M



ASP-M



The thread size of the joint between the magnet and arm is M8 x P1.25 for AMM, AML and AM and M10 x P1.5 for AMP and ASP.

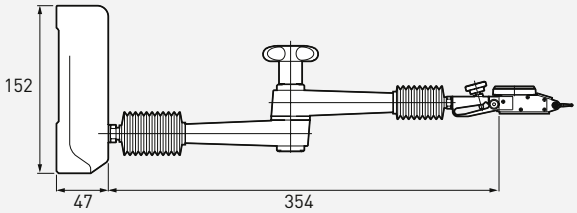
ACCU Stand - Cast Base Type

The base shape is designed for stability, with a precision-ground bottom surface that enables high-precision measurement.
The side is also ground perpendicular to the bottom, allowing measurement while sliding.
Cast base type ideal for precision measurement on a surface plate.

Standard Type

Model
ASP-B

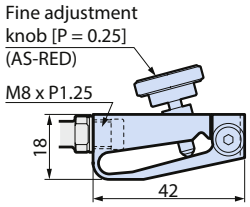
ASP-B



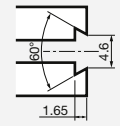
The thread size of the joint between the cast base and arm is M10 x P1.5.

Gauge support set

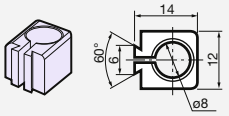
Standard/Mini Type



Set Model
DGH-3



Test indicator mounting groove

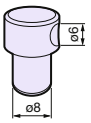


Adapter for ø8 Dial Gauge (ASA8)
Dial Gauge mounting hole

Optional Products

Clamp Piece for ø6

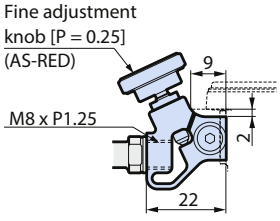
Procure when using a ø6 Dial Gauge.



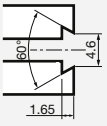
Model
ASA8-6

1. Set Contents: Gauge support/Fine adjustment knob / Adapter for ø8 Dial Gauge

Mini-Mini Type



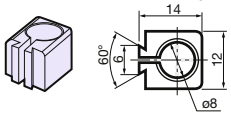
Set Model
DGH-MM



Test indicator mounting groove

Optional Products

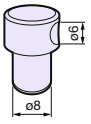
Adapter for ø8 Dial Gauge



Model
ASA8

Clamp Piece for ø6

Procure when using a ø6 Dial Gauge.



Model
ASA8-6

1. Set Contents: Gauge support/Fine adjustment knob

ACCU Stand - Cylindrical Shank Type

Flexible arm stand which locks solidly by the special cam mechanism.

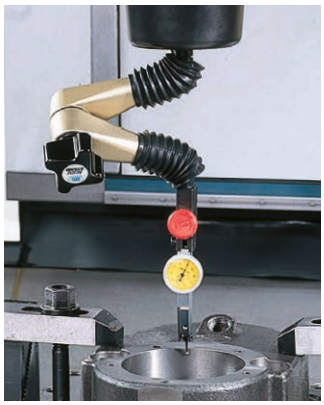
Standard Type

Model	Shank diameter
ASP-32	32
ASP-42	42

Mini Type

Model	Shank diameter
AM-20	20
AM-32	32

⚠ Caution
Not suitable for horizontal machines.



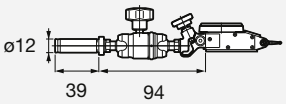
Mini-Mini Type (Short arm)

Model	Shank diameter
AMM-12	12
AMM-20	20

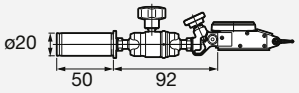
Mini-Mini Type (Long arm)

Model	Shank diameter
AML-12	12
AML-20	20

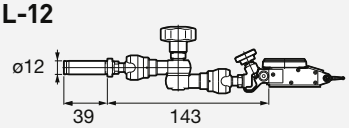
AMM-12



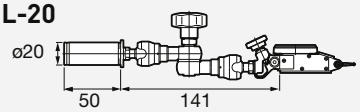
AMM-20



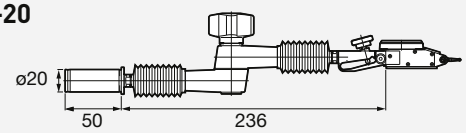
AML-12



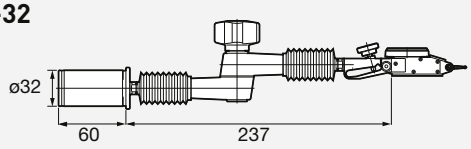
AML-20



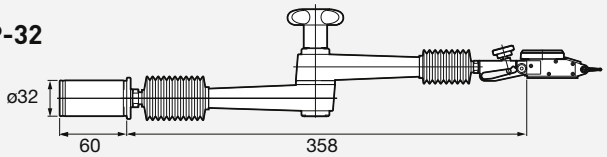
AM-20



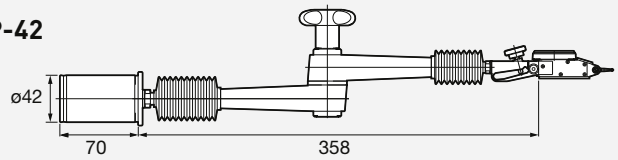
AM-32



ASP-32



ASP-42



The thread size of the joint between the cylindrical shank and arm is M8 x P1.25 for AMM, AML, and AM and M10 x P1.5 for ASP.

ACCU Stand - HSK Shank Type

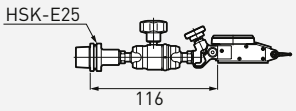
For small machining centers with HSK-E spindles.
HSK-E Shank type can be directly mounted on spindle.

Mini-Mini Type

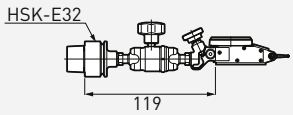
Model	Shank No.
HSK-E25-AMM	HSK-E25
HSK-E32-AMM	HSK-E32

1. Test indicators and dial gauges are not included with any model.

HSK-E25-AMM



HSK-E32-AMM



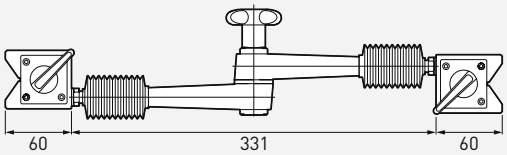
The thread size of the joint between the HSK shank and arm is M8 x P1.25.

ACCU Stand - Double Magnetic Base Type

For workpiece machining and cutting.

Model
ASP-WM

ASP-WM



The thread size of the joint between the magnet and arm is M10 x P1.5.

ACCU Stand - Arm Only Type

For various applications according to your idea.

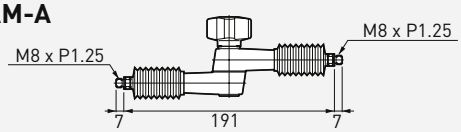
Standard Type

Model
ASP-A

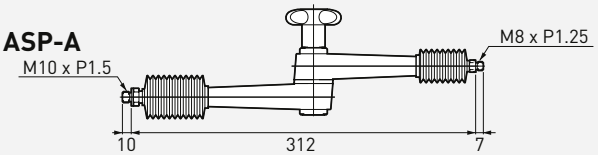
Mini Type

Model
AM-A

AM-A



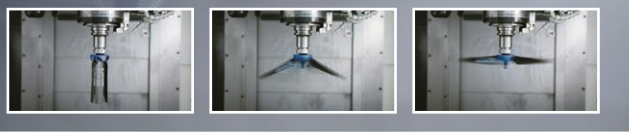
ASP-A



NEW

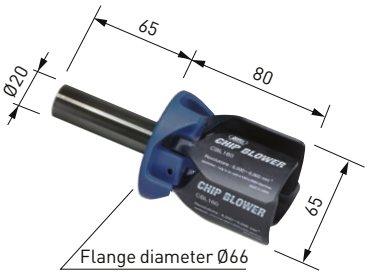
CHIP BLOWER

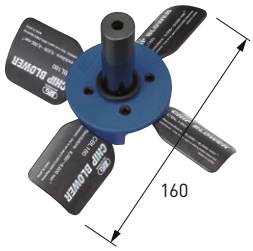
The propellor's air flow removes cutting chips and coolant from workpieces, work tables and clamping devices.



Ø160 Type

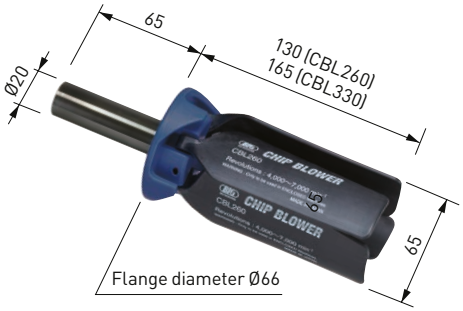
Model	ST20S-CBL160
Startup Spindle Speed * 1	500 min^{-1} (0.5sec) → 1,000 min^{-1} (0.5sec) → 2,000 min^{-1} (0.5sec) →
Recommended Spindle Speed	min. 6,000 - max. 9,000min^{-1}
Rotation Direction	Forward
Distance to the Workpice Surface to be Cleaned (with wing opened to maximum)	100 -150mm
Recommended Movement Feed	3,000 - 10,000 mm/min
Weight (kg)	0.27





1. The propeller may open during tool change, when it is used in a machining center with an ultra-high speed ATC.

Ø260 Ø330 Type



Model	ST20S-CBL260	ST20S-CBL330
Startup Spindle Speed * 1	500 min^{-1} (0.5sec) → 1,000 min^{-1} (0.5sec) → 2,000 min^{-1} (0.5sec) →	
Recommended Spindle Speed	min. 4,000 - max. 7,000min^{-1}	min. 3,000 - max. 6,000min^{-1}
Rotation Direction	Forward	
Distance to the Workpice Surface to be Cleaned (with wing opened to maximum)	100 -150mm	
Recommended Movement Feed	3,000 - 10,000 mm/min	
Weight (kg)	0.29	0.30

1. The propeller may open during tool change, when it is used in a machining center with an ultra-high speed ATC.

First: High-presure washing with center through

Next: Cleans workpieces and jigs with high Air flow.

When using a chip blower.

The cylindrical shank diameter of the chip blower is 20mm. Use a **NEW BABY CHUCK** or **NEW Hi-POWER MILLING CHUCK** for clamping.

The complete product overview
and accessories can be found in the
BIG DAISHOWA main catalogue.
www.bigdaishowa.eu

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