BDV/DV SHANK

COLLET CHUCK	B1
MILLING CHUCK	B7
HYDRAULIC CHUCK	B11
CK BORING SYSTEM	B13
TAPPER	B14
GENERAL TOOLHOLDER	B16
ANGLE HEAD	B19
HIGH-SPEED AIR SPINDLE	B26
SPEED INCREASER	B27
COOLANT FEED	B28
OTHER TOOLS	B29







Ultra-slim design with ø10mm nut outer diameter. High speed collet chuck with minimized interference.



Models for ultra-small endmilling are newly added!





[High Rigidity Taper Type]

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	DV SHANK Model	Clamping diameter ød	øD	L	Lı	G	Collet Model	Nut Model	Weight (kg)
_	DV30-MEGA6S- 60T	0.45 - 6.05	14	60	36	M7P0.75	NBC6S-	MGN6S	0.41
_	-MEGA8S- 75T	2.95 - 8.05	18	75	51	M9P0.75	NBC8S-	MGN8S	0.48
BDV40-MEGA3S- 90T	—	0.45 - 3.25	10	90	60	M4P0.7	NBC3S-	MGN3S	0.9
-MEGA4S- 90T	—	0.45 - 4.05	12	90	60	M5P0.8	NBC4S-	MGN4S	1.0
-MEGA6S- 60T	1			60	30				0.9
- 90T	-	0.45 - 6.05	14	90	60	M7P0.75	NBC6S-	MGN6S	1.0
-120T	—			120	90				1.1
-MEGA8S- 90T	-	2.95 - 8.05	18	90	60	M9P0.75	NBC8S-	MGN8S	1.0

1. Nut is included. Collet and wrench must be ordered separately.

2. Weight includes the nut but not the collet.

3. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

When using, slowly ramp up to the appropriate speed starting from slow speeds.





[Straight Type]	aight Type] BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV sp						V spindles.	
BIG-PLUS BDV SHANK Model	Clamping diameter ød	øD	L	L1	G	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA6S- 90	0.45 - 6.05	14	90	55	M7P0.75	NBC6S-	MGN6S	0.9

1. Nut is included. Collet and wrench must be ordered separately.

2. Weight includes the nut but not the collet.

3. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

When using, slowly ramp up to the appropriate speed starting from slow speeds.

Standard Accessory	Optional Accesso	ories			
MEGA NUT	Mega Wrench	Micro Collet	MEGA MICRO SEAL NUT (for 6S and 8S)	Collet Case	Adjusting
	0		MEGA MICRO COOLANT NUT (for 6S)		Screw
For Spares	🕞 G33	(7 G4)	C ⊋G 6	G	🖉 🗇 🖓 🖓







High speed version of NEW BABY CHUCK boasting a history of results.

Makes high speed machining possible in addition to its high accuracy and versatility.







BIG-PLUS (BDV Shank) tools can be used	on both BIG-PLUS spindles and conve	ntional DV spindles .
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BIG-PLUS BDV SHANK Model	Clamping diameter ød	øD	L	Lı	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA 6N- 90	0.25 6	20	90	55			1.1
-135	0.25 - 0	20	135	100			1.2
-MEGA 8N- 90	0.5 - 8	25	90	57		MGN 8	1.1
-135		25	135	102			1.3
-MEGA10N- 90	1.5 10	20	90	59		MCN10	1.2
-135	1.5 - 10		135	104		MGINTO	1.4
-MEGA13N- 90	2.5 - 13		90	61		MGN13	1.3
-135		35	135	106	NBC13-		1.6
-165			165	136			1.8
-MEGA16N- 90	2.5 - 16	6 42	90	65	NBC16-	MGN16	1.5
-135			135	110			1.9
-165			165	140			2.2
-MEGA20N- 60			60	40			1.3
- 90			90	70			1.6
-135	2.5 - 20	46	135	115	NBC20-	MGN20	2.0
-165			165	145			2.3
-200			200	180			2.6
-MEGA25N- 90	155 - 254	60	90	70		MCNIDE	1.8
-120	10.0 - 20.4	00	120	100		WIGIN25	2.3

1. Nut is included. Collet, wrench, and Adjusting Screw must be ordered separately.

2. Weight includes the nut but not the collet.

3. Through holes are provided, allowing switching between center through and flange through use.

4. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

When using, slowly ramp up to the appropriate speed starting from slow speeds.





Center through

Not BIG-PLUS (DUAL CONTACT) specification **DV30 SHANK**

DV SHANK Model	Clamping diameter ød	øD	L	Lı	Collet Model	Nut Model	Weight (kg)
DV30-MEGA10N- 75	1.5 - 10	30	75	54	NBC10-	MGN10	0.60

1. Nut is included. Collet, wrench, and Adjusting Screw must be ordered separately.

2. Weight includes the nut but not the collet.

3. Center through coolant supply is available.

4. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance. When using, slowly ramp up to the appropriate speed starting from slow speeds.





The DUAL CONTACT BIG-PLUS system has been standardized. The abundant variety is also ideal as reliable general-purpose holders.







BIG-PLUS (BDV Shank) tools	can be used on both BIG-PLU	JS spindles and conventional DV spindles.
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BIG-PLUS BDV SHANK Model	Clamping diameter ød	øD	L	Lı	Collet Model	Nut Model	Weight (kg)
BDV50-MEGA 6N- 90			90	50			3.0
-120	0.25 - 6	20	120	80	NBC 6-	MGN 6	3.0
-165		165 125		3.1			
-MEGA10N- 90			90	55			3.2
-120	1.5 - 10	30	120	80	NBC10-	MGN10	3.3
-165			165	125			3.5
-MEGA13N- 90	2.5 - 13	35	90	55		MGN13	3.2
-120			120	80	NBC13-		3.4
-165			165	125			3.7
-MEGA16N- 90			90	55	NBC16-	MGN16	3.4
-120	25 16	10	120	85			3.7
-165	2.5 - 10	42	165	130			4.1
-200			200	165			4.4
-MEGA20N- 90			90	55			3.5
-120	2.5 20	16	120	85		MCN20	3.8
-165	2.5 - 20	40	165	130		MGN20	4.3
-200			200	165			4.6
-MEGA25N-105	155 254	60	105	77		MCN25	4.0
-135	15.5 - 25.4	00	135	107		MGN25	4.6

1. Nut is included. Collet, wrench, and Adjusting Screw must be ordered separately.

2. Weight includes the nut but not the collet.

3. Through holes are provided, allowing switching between center through and flange through use.

4. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance. When using, slowly ramp up to the appropriate speed starting from slow speeds.





- A high precision, high speed and high rigidity collet chuck especially for endmilling.
- Tapered body enhances damping effect by varying vibration frequency.
- Uses the MEGA E Collet designed for endmilling, delivering optimal clamping performance.





BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Clamping diameter ød	øD	L	Lı	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA 6E- 90	3-6	25	90	60	MEC 6-	MEN 6	1.2
-MEGA 8E- 60	3 . 8	20	60	30		MEN 8	1.2
- 90	3- 0	30	90	63			1.3
-MEGA 10E- 60	2 10	25	60	33			1.3
- 90	3-10		90	64		IVIENTO	1.4
-MEGA 13E- 60	3 - 12		60	35		MEN13	1.5
- 90		42	90	61	MEC13-		1.7
-120			120	95			1.9
BDV50-MEGA 6E-120	3-6	25	120	90	MEC 6-	MEN 6	3.3
-MEGA 8E-120	3-8	30	120	90	MEC 8-	MEN 8	3.4
-MEGA 10E-120	3 - 10	35	120	90	MEC10-	MEN10	3.6
-MEGA 13E- 90			90	60		MEN13	3.6
-120	3 - 12	42	120	90	MEC13-		3.8
-165			165	137			4.4

1. The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.

2. Weight includes the nut but not the collet.

3. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

When using, slowly ramp up to the appropriate speed starting from slow speeds.

4. Through holes are provided, allowing switching between center through and flange through use.

Standard Accesso	ory	Optional Accessories							
MEGA E Nut	O-ring	Mega Wrench	MEGA E Collet	MEGA E PERFECT	Adjusting Screw				
	O-ring			SEAL	10				
For Spares 37 G18	For Spares Tor Spares	🕞 G33	🕝 🖓 🖓 🖓	🝞 G19	🖤 🝞 G23				





A wide-ranging variety with sizes from short through long meets all the needs of high precision machining.

Coolant-through hole





DV SHANK Model	Clamping diameter ød	øD	L	Lı	Collet Model	Nut Model	Weight (kg)
DV40-NBS 6- 60			60	34			0.9
- 90	0.25 - 6	20	90	60	NBC 6-	NBN 6	1.0
-135			135	105			1.0
-NBS 8- 60			60	34			0.9
- 90	0.5 - 8	25	90	62	NBC 8-	NBN 8	1.0
-135			135	107			1.2
-NBS10- 60	1.5 - 10		60	34		NBN10	1.0
- 90		30	90	64	NBC10-		1.1
-135			135	104			1.4
-NBS13- 60		2.5 - 13 35	60	37	NBC13-	NBN13	1.0
- 90	2.5 - 13		90	66			1.2
-135			135	106			1.6
-NBS16- 60			60	38			1.1
- 90	2.5 - 16	42	90	68	NBC16-	NBN16	1.4
-135			135	113			1.8
-NBS20- 60			60	40			1.3
- 90			90	70			1.6
-135	2.5 - 20	46	135	115	NBC20-	NBN20	2.0
-165			165	145			2.3
-200			200	180			2.6

The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.
 Through holes are provided, allowing switching between center through and flange through use.

3. Weight includes the nut but not the collet.

Standard Accessory	Optional Accessories												
New Baby	New Baby Wrench	Collet	BABY PERFECT SEAL	Adjusting Screw	Tap Adjusting Screw								
Nut		ŢŢ Ţ	() ()() ()()() ()										



4.8

Clamping diameter: ø0.	25 - ø20		NEW BABY CHUCK								
DV SHANK Model	Clamping diameter ød	øD	L	L1	Collet Model	Nut Model	Weight (kg)				
DV50-NBS 6-120	0.25 6	20	120	85			2.8				
-165	0.25 - 0	20	165	125		INDIN O	3.1				
-NBS 8-120	05 8	25	120	85			2.9				
-165	0.5 - 8	25	165	130		INDIN O	3.0				
-NBS10- 90			90	60			2.9				
-120	1.5 - 10	30	120	85	NBC10-	NBN10	3.0				
-165			165	130			3.2				
-NBS13- 90			90	60			3.0				
-120	2.5 - 13	35	120	80	NBC13-	NBN13	3.4				
-165			165	125			3.7				
-NBS16- 90			90	60			3.1				
-120	0.5 10	40	120	85			3.9				
-165	2.5 - 10	42	165	130		INBIN 10	4.3				
-200			200	165			4.6				
-NBS20- 75			75	45			3.1				
- 90			90	60			3.2				
-120	2.5 - 20	46	120	85	NBC20-	NBN20	4.0				
-165			165	130			4.5				

200

1. The nut is included but the collet, wrench and Adjusting Screw must be ordered separately.

-200

2. Through holes are provided, allowing switching between center through and flange through use.

3. Weight includes the nut but not the collet.

165





Clamping diameter: ø16 - ø42

Complete contact with the nut and body in conjunction with the BIG-PLUS specifications for double effect. High rigidity equal to integration with the machine spindle. [Jet Through Type]







5.7

6.7

6.1

MGR80L

MGR99L

Fig. 1		[Fig. 2] UPU								
			BIG-PLUS (B	DV Shank) too	ls can be used	l on both BIG-F	PLUS spindles	and conventior	nal DV spindles .	
BIG-PLUS BDV SHANK Model	Fig.	Clamping diameter ød	øD	ØD1	L	Н	E	Mega Wrench	Weight (kg)	
BDV40-MEGA16DS- 90A		16	42	53	92	73	48	MGR42L	1.8	
-MEGA20DS-100A		20	50	55	102	71 _ 91	50	MODEOL	1.9	
-135A		20	50		137	71-01	50	MGNOOL	2.5	
-MEGA25DS-100A	1	25	62	63	102	73 - 83	56	MGB62I	2.4	
-135A			02	05	137	75-05	50	MGH02L	3.0	
-MEGA32DS-100A		20	70	71	102	70 00	60	MCP70I	2.2	
-135A		52	70	71	137	78-88	00		3.0	
BDV50-MEGA16DS- 70		16	46	55	72.5	73	48	MGR46L	3.5	
-MEGA20DS-100		20	60	60	102.5	71 01	50	MCREOL	4.9	
-135	2	20	00	09	137.5	71-01	50	MGROUL	5.7	
-MEGA25DS-105		05	70	77	107.5	70 00	78 - 88 56	MGR70L	5.4	
-135		25	10		137.5	10-00			6.3	

86

100

ð

107.5

137.5

107

80 - 97

90 - 107

60

-MEGA42DS-105 1. Wrench is not included. Please order separately.

-MEGA32DS-105

-135

2. Please note that the practical spindle speed may be considerably influenced by the machine rigidity and tool balance.

32

42

80

99

When using, slowly ramp up to the appropriate speed starting from slow speeds.

3. Tool adjustment amount "H" indicates the adjustment length with an Adjusting Screw.

4. Through holes are provided, allowing switching between center through and flange through use.

1

MEGA16DS requires the hex socket head screw (M8) for axial adjustment. However, please contact us if using for center through applications. H dimension is the max. tool shank length that can be inserted into the holder.

DS types have jet-through coolant supply, thus tools with oil holes cannot be used.







A holder equipped with tool Non-Pullout mechanism. The unique Key Grip locking mechanism prevents the tool from slipping or pulling out during heavy machining.









DV SHANK Model	ød	øD	øD1	L	Lı	н	H1	Mega Wrench	Weight (kg)	
DV50-MEGA20DPG -105ADF	20	60	69		27	49	24	MGR60L	5.1	
-MEGA25DPG -105ADF	25	70	77	105	33	55	22	MGR70L	5.4	
-MEGA32DPG -105ADF	32	80	86	i 41		59	23	MGR80L	5.6	

Key Grip and Spring are included.
 Wrench is not included. Please order separately.

3. H_1 is the dimension from the center of the Key Grip to the front end of the chuck.

Key Grips are consumable products. Do not use a damaged Key Grip.

For coolant through tools, a seal bushing (optional) is required instead of a spring. Please contact us for details.

Standard Accessories

Chuck size	Key Grip 2 pcs	Spring
ø20	PKG20-2P	PSP1823
ø25	PKG25-2P	PSP2420
ø32	PKG32-2P	PSP3128

1. Key Grips are sold as 2-piece sets.







SHANK

NEW Hi-POWER MILLING CHUCK Clamping diameter: ø20 - ø42

The BIG original slit mechanism supports high power and high-precision endmilling from heavy cuts to fine cuts.







BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS	DV SHANK Model	Clamping	øD	1	н	Min. clamp	oing length	Wrench	MEGA WRENCH	Weight
BDV SHANK Model		diameter ød	00	_		E	E1		Model	(kg)
BDV40-HMC20S- 85	DV40-HMC20S- 85			85						1.6
-105	-105	20	50	105	69 - 79	50	56	FK45-50L	MGR50L	1.9
-120	-120			120						2.1
-HMC25S- 95	-HMC25S- 95	25	50	95	71 01	56	57	EKEO 601	MCR50I	2.0
-105	-105	25	59	105	/1- 01	50	57	FR30-02L	Manual	2.2
-HMC32S- 95	-HMC32S- 95			95						2.1
-105	-105	32	68	105	79 - 89	60	64	FK68-75L	MGR68L	2.3
-135	-135			135						3.0
BDV50-HMC20S-105	DV50-HMC20S-105	20	50	105	60 70	50	FC			3.9
-135	-135	20	50	135	09 - 79	50	50	FK40-00L	MGROUL	4.3
-HMC25S-105	-HMC25S-105	05	50	105	76 96	FC	57			4.2
-135	-135	25	59	135	/0- 00	50	57	FN00-02L	MGROOL	4.8
-HMC32S-105	-HMC32S-105			105						4.4
-135	-135	32	68	135	88 - 98	60	72	FK68-75L	MGR68L	5.2
-165	-165			165						6.0
-HMC42S-135	-HMC42S-135	42	85	135	93 - 105	70	73	FK80-90L	MGR85L	6.3

1. Wrench and Axial Adjusting Screw are not included. Please order separately.

2. When using center through coolant;

3. Tool adjustment amount "H" indicates the adjustment length with an Axial Adjusting Screw. 4. When using center through coolant, insert a tool shank into E_1 or more.

• MEGA WRENCH can also be used to tighten/remove tools.

• Set screw with sealing compound applied (standard accessory) should be used to plug an air bleeding hole.

• Oil hole type should be chosen when Straight Collet is required.



MILLING CHUCK NEW HI-POWER MILLING CHUCK



Coolant-through hole

[HMC12J Type]

A slim yet highly rigid milling chuck with ø32 outer diameter nut for reduced interference.





DUAL CONTACT

BIG-PLUS[®]

BIG

	B	IG-PLUS	(BDV Shank) to	<mark>ols can b</mark>	e used o	n both Bl	G-PLUS sp	indles and conve	ntional DV s	spindles.
BIG-PLUS BDV SHANK Model	DV SHANK Model	Fig.	Clamping Diameter ød	øD1	L	L1	H Max.	E	Wrench	Weight (kg)
BDV40-HMC12J- 90	DV40-HMC12J- 90	1			90	55				1.4
-120	-120	2	10	25	120		6F	40	EK21 22	1.6
BDV50-HMC12J-105	DV50-HMC12J-105	1	1 12 2	35	105	70	05	43	FK31-33	3.5
-135	-135	2			135]				3.8

1. Wrench is not included. Please order separately.

2. MEGA WRENCH cannot be used.





For versatile high-precision machining including molds and automotive components.

• Slim design minimizes workpiece interference, ideal for mold making.



[SUPER SLIM Type PAT.] Clamping diameter: ø4 - ø12





BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Clamping diameter ød	øD	øD1	øD2	L	Lı	L2	E	Weight (kg)
BDV40-HDC 4S-110	4	14		26		57	69	19	10
-HDC 6S-110	6	14	43	20		57	00	25	1.2
-HDC 8S-110	8	17		28	110		60	31	
-HDC10S-110	10	19	4.4	30	-	52	69	33	1.3
-HDC12S-110	12	21	44	32			70	36	

1. Adjusting Screw cannot be used.

 It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. (30)

Caution

• Use only cutting tools that have a shank tolerance within h6.

- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)
- We do not recommend use with roughing endmills.Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping length E.

[Jet Through Type PAT.] Clamping diameter: ø4 - ø12





Coolant-through hole



		BIG	-PLUS (BDV S	Shank) tools ca	n be used on l	ooth BIG-PLU	S spindles and	conventional	DV spindles.
-PLUS V SHANK Model	Clamping diameter ød	øD	øD1	øD2	L	Lı	н	E	Weight (kg)
0-HDC 4J-90	4	20	20	25		50		19	
-HDC 6J-90	6	20		25		50		25	1.1
-HDC 8J-90	8	22	40	27	90		(125)	31	
-HDC10J- 90	10	24	42	29		52		33	1.2
-HDC12J- 90	12	26	44	31				36	

1. Adjusting Screw cannot be used.

BIG BD BDV

2. H dimensions in () are reference length up to the PULLSTUD BOLT.

 It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. (30)

Caution

• Use only cutting tools that have a shank tolerance within h6.

• Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)

We do not recommend use with roughing endmills.Do not clamp without a tool.

• Always insert the cutting tool into the holder beyond min. clamping length E.





HYDRAULIC CHUCK

[Standard Type] Clamping diameter: ø6 - ø20



Adjusting Screw Left-hand thread (Optional) Fig. 1



BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Fig.	ød	øD	ØD1	L	L1	L2	н	E	Adjusting Screw (Optional)	Weight (kg)
BDV40-HDC 6 - 90		6	26			12		29 50	20	HDA 6-05032	
-HDC 8 - 90		8	28			40		20 - 30	20	HDA 8-06032	
-HDC10 - 90		10	30			44		33 - 55	33	HDA10-08032	1.5
-HDC12 - 90] _	12	32	10.5	00			29 60	38	HDA12-10032	
-HDC14 - 90	'	14	34	49.5	90		_	38 - 00	30	HDA12-10032	
-HDC16 - 90		16	38			47		43 - 70		HDA16-12037	14
-HDC18 - 90		18	40			49			43		1.4
-HDC20 - 90		20	42			51					
BDV50-HDC12L-105	2	12	32	45	105	44	63	100 - 120	38	HDA 6-20010	3.2
-HDC20L-105	2	20	42	50	105	46	63	71 - 111	43	HDA20-12047	3.3

 Adjusting Screw with hexagon sockets on both sides is also available, allowing adjustment from the shank side as well. Add the letter "W" at the end of the model number when ordering. (Example: HDA6-05032W)

 It is recommended to use a Grip Bar to periodically confirm the gripping force of the Hydraulic Chuck. (30)

Caution

- Use only cutting tools that have a shank tolerance within h6.
- Do not use with cutting tools made with a flat on the shank. (ie: Weldon type shank)

Straight Collets G25

• We do not recommend use with roughing endmills.

- Do not clamp without a tool.
- Always insert the cutting tool into the holder beyond min. clamping length E.

















Not BIG-PLUS (DUAL



DV	Shank	models	are n	nounted	on DIN	standard	spindles.

DV SHANK Model	Fig.	CK No.	ØD1	øD	L	A	Weight (kg)
DV40-CKB1- 75	1	CK1		19	75	35	1.1
-CKB2- 85		CK2	44.7	24	85	45	1.1
-CKB3- 95	2	CK3	44.7	31	95	55	1.3
-CKB4- 90		CK4		39	90	54	1.4
-CKB5- 80	0	CK5	10.6	50	80	60	1.5
-CKB6- 65	5	CK6	49.0	64	65	45	1.4
DV50-CKB1-105	1	CK1		19	105	39	3.0
-CKB2-115		CK2		24	115	74	3.0
-CKB3-125		CK3		31	125	95	3.2
-CKB4-120		OK4		20	120	90	3.5
-180		014		39	180	150	4.0
-CKB5-105	0		70.1		105	75	3.7
-180	2	CK5		50	180	150	4.8
-225					225	195	5.5
-CKB6- 95					95	59	4.1
-170		CK6		64	170	134	6.0
-230					230	194	7.4
-CKB7- 95	3	CK7	80	90	95	75	5.3

1. The L_1 and A diameters in the table are the values when the EWN BORING HEAD is attached.

<CAT and ANSI standard shanks are also available upon request.>

Heads A41

2. Cutting edges and drive keys are aligned with boring heads mounted.

3. Center through coolant supply is available.

4. Mounting the DV Shank model on an ISO standard spindle may cause



MEGA SYNCHRO TAPPING HOLDER PAT.

TAPPER DUAL CONTACT R PAT. BDV/DV SHANK

Coolant-through hole

DUAL CONTACT

BIG-PLUS[®]

Improves thread quality and tap life by reducing thrust loads caused by synchronization errors up to 90%.





		BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spin							
BIG-PLUS BDV SHANK Model	DV SHANK Model	Tap Holder Model	Tapping range d	øD	ØD1	L	L1	L2	Weight (kg)
		MGT 6-d- 30	NO NO			110		30	
BDV40-MGT 6- 80	DV40-MGT 6- 80	- 70	M2 - M6 No.3 - U1/4	36	16	150	80	70	1.3
		-100				180		100	
		MGT12-d- 30	M6 - M12			110		30	
-MGT12- 80	-MGT12- 80	- 70	U1/4 - U7/16	41	20 · 30	150	80	70	1.3
		-100	P1/8			180		100	
		MGT20-d- 35	M12 - M20			140		35	
-MGT20-105	-MGT20-105	- 85	U1/2 - U3/4	54	30	190	105	85	1.9
		-115	P1/4 - P3/8			220		115	
		MGT 6-d- 30				115		30	
BDV50-MGT 6- 85	DV50-MGT 6- 85	- 70	M2 - M6 No.3 - U1/4	36	16	155	85	70	3.2
		-100				185		100	
		MGT12-d- 30	M6 - M12			115		30	
-MGT12- 85	-MGT12- 85	- 70	U1/4 - U7/16	41	20 · 30	155	85	70	3.2
		-100	P1/8			185		100	
-MGT20-105		MGT20-d- 35	M12 - M20			140		35	3.8
	-MGT20-105	- 85	U1/2 - U3/4	54	30	30 190	105	85	
		-115	P1/4 - P3/8			220		115	

1. MGT Set Screw is included.

2. Tap holder and wrench are not included. Please order separately. Cannot be used with machining center without synchronized tapping function.



Tap with eccentric thread relief, having no margin on tap periphery, may cause oversize threads. In such case, tap with con-eccentric thread relief is recommended. **A135**

I

Tap holders A136

Tapping range (DIN/ISO)

Tap Holder		DIN Standard		ISO St		
Size	DIN371	DIN376	DIN353	ISO529	ISO2284	
MGT 6	M3 - M 6	M 5-M 8		M 3 - M5		
MGT12	M5 - M10	M 8 - M12	1/8	M6, M8, M12	1/8	
MGT20	M10	M12 - M20	1/4 - 1/2	M10 - M20	1/4 - 3/8	Tap holders A136





TAPPER MEGA SYNCHRO TAPPING HOLDER PAT. M2 - M20

[Large Diameter Tap MGT36 PAT.]

With a structure that smoothly tracks under high cutting torque of large diameter tapping, it compensates for axial deviation due to synchronization error, greatly reducing load during tapping.





1. MGT Set Screw is included.

2. Tap holder must be ordered separately.

Cannot be used with machining center without synchronized tapping function.

Large Diameter Tap Holder MGT36 PAT.



For DIN

Tap holder model	Tap size gd			u	aD		Weight	
Tap holder model	DIN376	DIN353	ØUI		п	00	L	(kg)
MGT36-180145-65	M22,24	P5/8	18	14.5	45	38		1.4
-200160-65	M27	P3/4	20	16	51	40		1.4
-220180-65	M30	P7/8	22	18	53	42	65	1.5
-250200-65	M33	P1	25	20	58	49		1.6
-280220-65	M36	_	28	22	62	52		1.6
1. Adjusting Screw is included			0	— 110 T		A 100		



p holders A139







FACE MILL ARBOR TYPE H



Securely supplies coolant/air to the cutting edge







Fig. 2

			BIG-PLU	S (BDV Shank	<) tools can be	e used on bot	h BIG-PLUS	spindles and c	onventional	DV spindles.						
BIG-PLUS BDV SHANK Model	Fig.	øD	øD1	L	Lı	L2	W	G	Weight (kg)	Min. flange diameter øC						
BDV40-FMH16-37- 40		16	37	40	16	5	8	M 8	1.1	28						
-FMH22-47- 45				45					1.2	38						
- 60	1	22	47	60	10	5	10	M10	1.4							
- 90]	22	47	90	10		10	MITO	1.8	36						
-150				150					2.5							
-60- 50		22	60	50	18	5	10	M10	1.4	38						
- 90				90	10		10	- WITO	2.0							
-FMH27-60- 50		27	60	50	20	6	12	M12	1.4	46						
- 90	2	21		90	20		12	WITZ	2.0							
-76- 60		27	76	60	20	6	12	M12	1.9	- 48						
- 90				90			12	WITZ	2.3							
-FMH32-96- 60		32	96	60	22	7	14	M16	2.1	58						
BDV50-FMH16-37-105		16	37	105	16	5	8	M 8	3.4	28						
-FMH22-47- 60				60					3.1	38						
-105	ļ			105					3.7							
-150		22	22	22	22	22	22	22	47	150	18	5	10	M10	4.3	36
-200				200					4.9	-						
-250		250					5.6									
-60- 60				60					3.5	-						
-105		22	60	105	18	5	10	M10	4.4	- 38						
-150	1			150					5.4							
-200				200					6.5							
-FMH27-60- 45				45					3.2	-						
- 90		27	60	90	20	6	12	M12	4.1	46						
-150				200					5.4							
-200				200					0.5							
- 90				4J QN					5.0	-						
- 50		27	76	150	20	6	12	M12	7.2	- 48						
-200				200					8.9	-						
-EMH32-96- 50				50					4.1							
- 90				90					6.2	-						
-150		32	96	150	22	7	14	M16	8.4	- 58						
-200	2			200					10.4	-						
-FMH40-100- 50	1			50			3.5 16		4.3							
- 75	1	40	100	75	5 26	8.5		M20	5.6	70						
-105	1			75				(IVIBA-IVI20H)	6.9	1						

1. Center through coolant supply only is available.

2. The weight does not include the cutter.

3. Cutter clamping screw is included.

If the provided clamping screw is not compatible, separately select one from the clamping screw table on A121.

4. When using a cutter without oil holes, an optional clamping screw with a through hole allows coolant supply.

5. For the detailed dimensions of clamping screw MBA-M20H, see A121.





Built-in Damper SMART DAMPER

Dynamic damper eliminates chatter.



DUAL CONTACT





BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	ØD1	L	L	L2	Weight (kg)	Applicable damper head
BDV50-SDF36-47-170	47	350	170	325	4.9	SDF36-FMH22DP-47
-60-170	60	350	170	325	6.2	SDF36-FMH22DP-60
-60-220	00	400	220	375	7.3	-FMH27DP-60
-SDF57-76-170 Ø	76	350	170	325	8.5	SDF-57-FMH27DP-76
-76-220 💋	70	400	220	375	10.2	-FMH32DP-96



[Damper Head]



Model Description

SDF36 - FMH 22 DP - 47 - 180										
		L dimension ØD1 dimension								
		 Built-In Damper Type 								
	• s	pigot diameter								
	FACE M	ILL ARBOR TYPE H								





Model	Fig.	øD	øD1	øD₃	L	Lı	L2	w	G	Weight (kg)	Wrench Model	Min. flange diameter øC
SDF36-FMH22DP-47-180		22	47	47	180	18	5	10	M10	3.0	FK45-50L	36
-60-180	1	22	60	60	180	18	5	10	M10	4.5		49
-FMH27DP-60-180		27	60	60	180	20	6	12	M12	4.5	FR30-02L	46
SDF57-FMH27DP-76-180 🔊	1	27	76	76	180	20	6	12	M12	8.1	FK68-75L	48
-FMH32DP-96-180 🔊	2	32	76	96	180	22	7	14	M16	8.7	FK92-100	58

1. Refer to the operation manual regarding the mounting method to the basic holder.

2. The weight does not include the cutter.

3. Hook wrench and cutter clamping screw are included.

4. If the standard clamping screw does not fit the cutter, select the suitable one from the clamping screw table and order it separetely. (7A121)

5. øC indicates the smallest mounting surface diameter of the cutter that can be mounted on the arbor. Be careful when using a cutter with the mounting diameter considerably smaller than the cutting diameter, as it may not fit.





L dimension Tip Diameter Thread Size BIG-PLUS DV No.



BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	ød	ØD1	øD2	L	L1	G	Weight (kg)
BDV40-M10-19- 65	10.5	10	25	65		M10	1.0
-110	10.5	19		110		MITO	1.2
-M12-24- 60	10.5	04	40	60	10	M10	1.0
-105	12.5	24	40	105	10	IVI 12	1.3
-M16-29- 55	17	20	45	55		MIC	1.1
100	17	29	40	100			1.4





DUAL CONTACT



to perform tapping. (NBS10 or larger)	to perform tapping. (NBS10 or larger)													
BIG-PLUS BDV SHANK Model	Fig.	Clamping diameter ød	øD	G	к	L	Lı	М	Ρ	Q	øF	Collet Model	Speed Ratio Input:Output	Weight (kg)
BDV40-AG90/NBS 6 -180						180	55	77						5.1
-210	1	0.25 - 6	20	21	17	210	85	107 137 167 33 29 67 NBC 6		5.3				
-240	'	0.23 - 0	20	21		240	115	137	55	29	07			5.5
-270						270	145	167						5.7
-AG90/NBS10 -180						180	55	77						5.5
-210	2	1.5 - 10	30	30	0 25	210	85	107	45	43	91	NBC10	1:1	5.9
-240						240	115	137						6.2
-AG90/NBS13 -180						180	55	77						5.6
-210	2	2.5 - 13	35	31	28	210	85	107	52	45	101	NBC13		6.0
-240						240	115	137	1					6.3
-AG90/NBS20S-175S	3	2.5 - 20	46	35	33	175	53	72	65	62	132	NBC20		8.0

1. The cutting tool rotates in reverse to the machine spindle.

2. Nut and wrench are included. Collet is not included.

 The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.

4. A Stop Block is required when mounting on machines. Please order separately.

5. When supplied through the Stop Block, coolant can be ejected from the housing.

6. Automatic tool change may not be available depending on machine tool models.

7. New Baby Endmill Collets cannot be used.













 Model Description BDV50 - AG90 / NBS 6 - 215 GG ΙøD øD ø125 _{ø97} L dimension ød ød ø97 Maximum clamping diameter NEW BABY CHUCK System Min. access bore øF din.access 90° Head type bore øF BIG-PLUS DV No. Pitch 110 0 R21 M Fig. 3 Max.3,000min-1 Fig. 2 Max.6,000min-1

 Tap Collet with tension mechanism can also be used to perform tapping. (NBS10 or larger)

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Fig.	Clamping diameter ød	øD	G	к	L	Lı	М	Р	Q	øF	Collet Model	Speed Ratio Input:Output	Weight (kg)
BDV50-AG90/NBS 6 -215						215	55	82						12.6
-245		0.25 - 6		17	245	85	112	22	22 20				12.8	
-275	'		20	21	17	275	115	142	00 29	29	9 07	NBC 6		13.0
-305						305	145	172						13.2
-AG90/NBS10 -215						215	55	82						13.0
-245	2	1.5 - 10	30	30	25	245	85	112	45	43	91	NBC10	1:1	13.4
-275	1					275	115	142						13.7
-AG90/NBS13 -215						215	55	82						13.1
-245	2	2.5 - 13	35	31	28	245	85	112	52	45	101	NBC13		13.5
-275						275	115	142						13.8
-AG90/NBS20 -230	3	2.5 - 20	46	35	35	230	70	97	65	62	132	NBC20		14.2

1. The cutting tool rotates in reverse to the machine spindle.

2. Nut and wrench are included. Collet is not included.

3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.

 $\ensuremath{\mathsf{4.}}$ A Stop Block is required when mounting on machines. Please order separately.

5. When supplied through the Stop Block, coolant can be ejected from the housing.

6. Automatic tool change may not be available depending on machine tool models.

7. New Baby Endmill Collets cannot be used.

NEW BABY CHUCK Insertion Length List

Model	Max. Insertion Length	Model	Max. Insertion Length
BDV40-AG90/NBS 6	33	BDV50-AG90/NBS6	33
-AG90/NBS10	45	-AG90/NBS10	45
-AG90/NBS13	52	-AG90/NBS13	52
-AG90/NBS20S-175S	70	-AG90/NBS20	70
-AGU/NBS13 -280	50	-AGU/NBS20 -315	50











- 4. When supplied through the Stop Block, coolant can be ejected from the housing.
- 5. Automatic tool change may not be available depending on machine tool models
- 6. Wrench is included. (Model: FK80-90)





order separately.

ANGLE HEAD AG90 SERIES

Face Milling Type

- Tool life is improved by high-rigidity bearings and optimum spindle dimensions!
- Series' highest rotation transmission force of 20kw (at 1,500min⁻¹)
- 90° indexing mechanism is used to allow index of 90° increments after adjustment. (Indexing accuracy ±5')







IG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles .							
BIG-PLUS BDV SHANK Model	Speed Ratio Input:Output	Weight (kg)					
BDV50-AG90-EMA25 4S-190S	1:1	19.2					

Figures in () indicate dimensions when 80mm diameter and 50mm high face mill cutter is mounted.

- 1. The cutting tool rotates in reverse to the machine spindle.
- 2. A Stop Block is required when mounting on machines. Please order separately
- Coolant cannot be supplied through the Locating Pin.
 The angles of the Locating Pin to the drive key groove and direction
- of cutting edge are freely adjustable. 5. Automatic tool change may not be available depending on machine tool



Stop Blocks A170

■ Cutting edge direction freely adjustable in 360° The cutting edge direction can be easily set at any angle through 360 degrees simply by loosening its adjustment bolts (8 positions).

models.

- Cutting edge adjusting bolt
- Cutting edge direction indexable in 90° increments Indexing can be done in 90°

increments after the cutting edge is adjusted. (Remove the support pin to adjust the cutting edge direction in 90° increments)



Caution: Be sure to remove from the machine before setting in 90° increments.





Offset design provides optimum tool projection with each adapter.



BUILD-UP Type [Standard type]





Max. 3,000 min⁻¹

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Speed Ratio Input:Output	Weight (kg)
BDV50-AG90/AGH35-230	1.1	15.0 (Pitch 110)

1. The cutting tool rotates in forward to the machine spindle.

2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable

- 3. A Stop Block is required when mounting on machines. Please order separately.
- 4. When supplied through the Stop Block, coolant can be ejected from the housing.
- 5. Automatic tool change may not be available depending on machine tool models.
- 6. Wrench is included. (Model: FK80-90)



[High rigidity S type]

Model Description

BIG-PLUS DV No

BDV50 - AG90 / AGH35 - 230

90° Head type

About 30% higher rigidity compared to standard type

S

High rigidity S type

L dimension

AG35 ADAPTER





BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional **DV spindles**.

BIG-PLUS BDV SHANK Model	Speed Ratio Input:Output	Weight (kg)		
BDV50-AG90/AGH35-230S	1:1	16.3 (pitch 110)	15.6 (pitch 80)	

1. The cutting tool rotates in forward to the machine spindle.

2. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.

- 3. A Stop Block is required when mounting on machines. Please order separately.
- 4. When supplied through the Stop Block, coolant can be ejected from the housing.
- 5. Automatic tool change may not be available depending on machine tool models.

6. Wrench is included. (Model: FK80-90)





BDV50 - AG90 / AGH35 - 230



Model Description

DUAL CONTACT ANGLE HEAD **ANGLE HEAD** AG90 SERIES BDV/DV

BUILD-UP Type AG35 ADAPTER

Abundant adapters support various machining applications.



used to perform tapping.

Tap Collet with tension mechanism can also be

[]

Insertion Length List A154

Spindle angle 90°

SHANK









1. Collet and wrench must be ordered separately. (See wrench G36) 2. Adjusting Screw is included.

NEW HI-POWER MILLING CHUCK

Model	ød	øD	L	øF	Н	Min. clamping length E	Weight (kg)
AG35-HMC20S	20	50	60	176	71.5	49	1.5
1. Wrench is included. (Model: FK45-50L)							

Through Hi-JET HOLDER

NEW BABY CHUCK

Model ød	øC	øD	L	øF	Weight (kg)
AG35-ONBS13N 3 - 1	3 35	65	68	186	1.1
-ONBS20N 3 - 2	0 46	65	68	188	1.2

1. Baby Perfect Seal nut with sealing mechanism is required. (optional accessory) 2. Collet and wrench must be ordered separately.

3. Anti-rotation block set must be ordered separately. (Model: AG35-BL)



TC Tap Collets A144

Tap Collets G17







AUTO TAPPER B (with Tap Depth Control)

Model	d	øD	L	L1	F1	F2	F₃	Weight (kg)
AG35-ATB12	M3 - M12	40	95	65	0.5	5	4	0.8
-ATB20	M7 - M20	54	125	100	0.5	6.5	5	1.5

1. Tap Collet must be ordered separately.

FACE MILL ARBOR

Model	øD	L	н	Weight (kg)
AG35-FMA25.4-20	25.4	20	22	1.0
-30	25.4	30	22	1.0
AG35-FMH22 -30	22	30	18	1.0
-FMH27 -20	27	20	20	1.0

* Cutter face protrudes by 7.5mm from the 125mm diameter housing with the following combinations; AG35-FMA25.4-20 + 50mm thick tool, AG35-FMA25.4-30/AG35-FMH22-30 + 40mm thick tool and AG35-FMH27-20 + 50mm thick tool.

MORSE TAPER ADAPTER

Model	ød	MT.No.	øD	L	øF	Weight (kg)
AG35-MT1	12.065	1	25	50	164	0.6
-MT2	17.78	2	32	60	175	0.7





The cutting edge angle can be freely adjusted, making it ideal for machining the corners of molds in deep areas.

- The original 1° indexing mechanism allows easy angle adjustment.
- Robust clamping mechanism allows secure endmilling.



Universal Type

Model Description

BIG-PLUS DV No.

BDV40 - AGU / NBS 13 - 280

Universal Type



L dimension Maximum clamping diameter

NEW BABY CHUCK System



Indexing mechanism in 1° increments

Accurate angle adjustment is possible simply by tightening the angle setting pin.



The spindle angle can be adjusted in the range of 0° to 90°

The 1° angle indexing mechanism allows the angle to be easily set. (Indexing accuracy ±5')





Fig. 2 Max. 4,000min-1

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles									
BIG-PLUS BDV SHANK Model	Fig.	Collet Model	Speed Ratio Input:Output	Weight (kg)					
BDV40-AGU/NBS13-280	1	NBC13	1.1	9.7					
BDV50-AGU/NBS20-315	2	NBC20	1.1	20.8					

1. The cutting tool rotates in reverse to the machine spindle.

2. Nut and wrench are included. Collet is not included.

3. The angles of the Locating Pin to the drive key groove and direction of cutting edge are freely adjustable.

4. A Stop Block is required when mounting on machines. Please order separately.

5. Automatic tool change may not be available depending on machine tool models



Tap Collet with tension mechanism can also be used to perform tapping



Machining examples Easy angle setup

 Drilling or endmilling on angled surfaces





Profiling with ball endmill





HIGH-SPEED AIR SPINDLE AIR TURBINE SPINDLE

Machine spindle

rotation zero

66,000

43,000

0.4

58,000

38,000

90,000

80,000

Spindle speed (min⁻¹) 20,000 60,000 20,000 40,000 40,000

30,000

0.3

Spindle speed against air pressure (reference)

DUAL CONTACT

(BIG

80,000

50,000

0.6

22

ø12 ø

MEGA4S

ð

ht

RBX7

RBX5

(High torque type)

BIG-PLUS[®]

73,000

47,000

Air pressure (MPa)

Lı

0.5

The ultra-precision spindle enables challenging micromachining!

Ceramic ball bearing type **RBX** Series

	RBX5	RBX7			
Operating spindle speed (min ⁻¹)	40,000 - 50,000	60,000 - 80,000			
Clamping diameter	ø0.45 - 4.05mm (MEGA4S)				
Spindle nose runout accuracy	Within	1µm			
Air pressure	0.3 - 0.6MPa				
Air flow rate	300L/min [AN	R] (at 0.6MPa)			

[Center Through Type]



ATC compatible

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Operating spindle speed (min ⁻¹)	Clamping diameter ød	Usable tool diameter	L	L1	øD	Weig (kg
BDV40-RBX5C-4S-150	40,000 - 50,000	0.45 4.05	ø1.5 or smaller	150	12	96	4.1
-RBX7C-4S-150	60,000 - 80,000	0.45 - 4.05	ø1.0 or smaller	150	43	78	3.*
BDV50-RBX5C-4S-145	40,000 - 50,000	0.45 4.05	ø1.5 or smaller	145	20	96	6.8
-RBX7C-4S-145	60,000 - 80,000	0.45 - 4.05	ø1.0 or smaller	145	30	78	5.8

1. Nut, exclusive wrench (RBX5, 7 → XW27) and Mega Wrench (MGR12) are included. Collet is not included. Please order separately.

2. Air filter regulator (XF1) is required.

Micro Collets G4 3



· Clean air is an essential condition for the use of this product. Therefore, coolant should never be supplied through the spindle of the machine using the Air Turbine Spindle.

[Side Through Type]



BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional DV spindles.

BIG-PLUS BDV SHANK Model	Operating spindle speed (min ⁻¹)	Usable tool diameter	L	L1	øD	S	Weight (kg)
BDV40-RBX5-4S-165-65	40,000 - 50,000	ø1.5 or smaller	165	57	96	65	5.0
-RBX7-4S-165-65	60,000 - 80,000	ø1.0 or smaller	105	57	80	05	4.0
BDV50-RBX5-4S-170-80	40,000 - 50,000	ø1.5 or smaller	170	60	100	<u>00</u>	9.7
-RBX7-4S-170-80	60,000 - 80,000	ø1.0 or smaller	170	02	100	60	8.7

1. Nut, exclusive wrench (RBX5, 7 → XW27) and Mega Wrench (MGR12) are included. Collet is not included. Please order separately.

2. Air filter regulator (XF1) is required.

3. A Stop Block is required when mounting on machines. Please order separately.



DUAL CONTACT

BDV/DV

SHANK

Max

80,000min⁻¹





Accelerates the machine spindle. Improves productivity for machines with low spindle speeds.

BIG's gear drive with a long track record is used for the drive system. High torque and low heat generation are achieved.



B SPEED INCREASER





G-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and nventional DV spindles .					Pleas cause powd	e contac e fire, or g lery chips	t our age grinding o s such as	ent when us or machinin s carbide.	ing neat oil g materials	coolant that that generation	at may ate
BIG-PLUS BDV SHANK Model	ød	L	L1	øD1	ØD2	K1	S	Collet Model	Speed ratio	Max. (min ⁻¹)	Weight (kg)
BDV40-GTG5-10-155	1.5 - 10	155	20	30	80	58	65	NBC10	4.67	20,000	5.0
BDV50-GTG6-10-163	1.5 - 10	163	20	30	100	63	80	NBC10	5.67	20,000	9.0
-GTG4-16-182	2.5 - 16	182	25.5	42	110	63	80	NBC16	3.80	15.000	10.8

1. The allowable torque is a calculated value of the drive system, and not the actual torque in cutting.

4. For continuous rotation of over 30 minutes, the spindle speed should be set within 80% of the maximum speed.

2. The maximum diameter when using an endmill is ø8 5. Nut, wrench, and exclusive spanner are included.

(GTG5, GTG6) and ø12 (GTG4). 3. A Stop Block is required when mounting on machines.

Body Model	Included Collet Model (1 pc)
GTG5-10	NBC10-10AA
GTG6-10	NBC10-10AA
GTG4-16	NBC16-16AA

GTX Type

- Bending rigidity is significantly improved.
- Long nose design ideal for mold machining.



Stop Blocks A170





Collets G7

BIG-PLUS (BDV Shank) tools can be used on both BIG-PLUS spindles and conventional **DV spindles**.

BIG-PLUS BDV SHANK Model	ød	L	K1	S	Collet Model	Max. speed (30 min) min ⁻¹	Continuous speed min ⁻¹	Weight (kg)
BDV50-GTX6-8-205	0.5 - 8	205	62	80	NBC8	24,000	20,000	9.5
1. The allowable torque is a calcula	e svsten	4. For	continuous operation	of over 30 minutes. the	continuous			



and not the actual torque in cutting. 2. The maximum clamping diameter when using a drill is ø4mm. 3. A Stop Block is required when mounting on machines.

5. Collet is not included. Please order separately.

speed is recommended.

6. Nut, wrench, and exclusive spanner are included.





Unique separate sealing structure extends life.

- Independent bearing and sealing sections eliminate infiltration of coolant into bearings.
- The seal replacement system allows maintenance and thus helps reduce costs.

NEW BABY CHUCK Type





DV SHANK Model	Clamping diameter ød	øD	L	øC1	øC2	S	Collet Model	Max. (min ⁻¹)	Merit Set	Weight (kg)
DV40-ONBS13N-165	3 - 13	35	165	81.6	73	65	NBC13	10,000	MES-40	4.0
-ONBS16N-165	3 - 16	42			80		NBC16	8,000	MES-50	4.3
-ONBS20N-165	3 - 20	46					NBC20	8,000		4.3
DV50-ONBS13N-165	3 - 13	35					NBC13			7.3
-ONBS16N-165	3 - 16	42	165	99.6	80	80	NBC16	8,000	MES-50	7.3
-ONBS20N-165	3 - 20	46]				NBC20			7.5

1. Max. coolant pressure is 2MPa.

2. Wrench, nut (BPS), collet and Adjusting Screw are sold separately.

Order together with a Baby Perfect Seal of appropriate size.

3. For L1, refer to the Baby Perfect Seal (7G15)

4. A Stop Block is required when mounting on machines. Please order separately.

Using neat oil coolant carries a risk of fire due to excessive heat generation or ignition of the holder.



Maintenance parts for seal Merit Set

If excessive coolant leak occurs while using the Hi-JET holder due to wear of the seal, purchase the seal replacement part "Merit Set". The model name is indicated in the dimension table for each Hi-JET Holder type.

<Merit Set contents>
Merit Ring
Merit Plate
O-rings for Merit Case, 2 pcs each



Stop Blocks A170

B

COOLANT FEED





SIDE LOCK TYPE

For cylindrical shank oil hole drills.

Not BIG-PLUS (DUAL CONTACT) specification





DV SHANK Model	ød	øD	L	øC1	øC2	S	Max. (min⁻¹)	Merit Set	Weight (kg)								
DV40-OSL16N-150	16		150	81.6	80	65	8,000	MES-50	4.4								
-OSL20N-150	20	48	81.6		80				4.3								
-OSL25N-165	25								4.4								
-OSL32N-165	32	58	105	99.6	98		6,000	MES-65	5.7								
DV50-OSL16N-150	16		48 150	-	80	-	8,000	MES-50	7.5								
-OSL20N-150	20	48			00				7.4								
-OSL25N-165	25			99.6	00	<u>00</u>			7.5								
-OSL32N-165	32	58	165		00	00	00	00	00	00	00	00	08	00	6.000		7.9
-OSL40N-165	40	64			90		0,000	IVIE5-05	8.0								
-OSL50N-185	50	84	185	129.6	121		4,000	MES-90	11.9								
. Max. coolant pressure is 2MPa. 2. A Stop Block is required when mounting on machines. Please order separately.							eler	Stop Blo	cks Δ170								

Using neat oil coolant carries a risk of fire due to excessive heat generation or ignition of the holder.



For Side Lock type SL Sleeve



Model	ød	øD	L	L1	
OSL25-16	16	25	62	5.5	
-20	20	25	02	5.5	
OSL32-16	16				
-20	20	32	66	5.5	
-25	25				Γ

Model	ød	øD	L	L1	Н
OSL40-16	16	40			48
-20	20		76	5.5	50
-25	25				56
-32	32				60

BDV/DV SHANK OTHER TOOLS

BIG-PLUS SPINDLE FLANGE FACE CLEANER

Cleans the spindle flange face of BIG-PLUS machines. • Removes oil and chips on the spindle flange face.







Model	øD	L
SDV40-ASC-40T	45	40
SDV50-ASC-60T	70	60

1. When the Flange Face Cleaner is mounted on the BIG-PLUS machine tool spindle, a 1mm gap exists between the flanges of the spindle and the cleaner.

