

# BDV/DV SHANK

MEGA MICRO CHUCK .....	P45
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Coolant-through hole

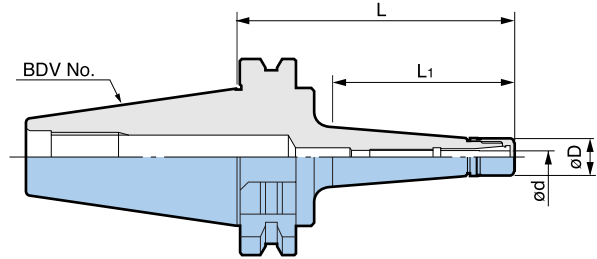
# MEGA MICRO CHUCK<sup>®</sup> PAT. Clamping Range : $\varnothing$ 0.45 - $\varnothing$ 6.05

Type T



Micro diameter design is ideal for high speed applications in tight areas with small diameter cutting tools.






**MAX.**  
**35,000**  
**min<sup>-1</sup>**



BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	MAX. min <sup>-1</sup>	Collet Model	Nut Model	Weight (kg)
<b>BDV40-MEGA3S- 60T</b>	0.45 – 3.25	10	60	29	35,000	NBC3S-□	MGN3S	0.95
- 90T			90	59	28,000			1.02
-120T			120	89	22,000			1.14
<b>-MEGA4S- 60T</b>	0.45 – 4.05	12	60	29	35,000	NBC4S-□	MGN4S	0.95
- 90T			90	59	28,000			1.03
-120T			120	89	22,000			1.17
<b>-MEGA6S- 60T</b>	0.45 – 6.05	14	60	29	35,000	NBC6S-□	MGN6S	0.96
- 90T			90	59	28,000			1.05
-120T			120	89	22,000			1.20

1. MEGA NUT is included.

	Spare Parts	Accessories			
	MEGA NUT 	MEGA WRENCH 	MICRO COLLET  P91	MICRO COLLET PROTECTIVE CASE 	α TAPER CLEANER 
MEGA MICRO CHUCK	Model	Model	Model	Model	Model
MEGA3S	<b>MGN3S</b>	<b>MGR10</b>	<b>NBC3S-□</b>	<b>NBB3S</b>	<b>SC-NBC3S</b>
MEGA4S	<b>MGN4S</b>	<b>MGR12</b>	<b>NBC4S-□</b>	<b>NBB4S</b>	<b>SC-NBC4S</b>
MEGA6S	<b>MGN6S</b>	<b>MGR14</b>	<b>NBC6S-□</b>	<b>NBB6S</b>	<b>SC-NBC6S</b>

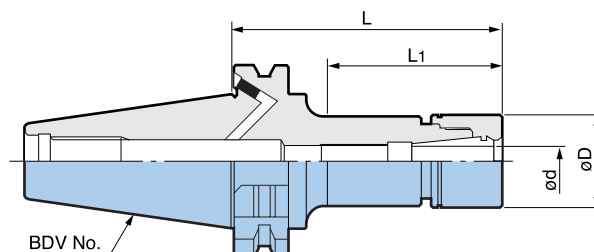
# MEGA NEW BABY CHUCK<sup>®</sup> PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$

Coolant-through hole



MAX.  
35,000  
min<sup>-1</sup>

Ideal ultra precision holders for high speed machining with carbide drills, reamers and endmills. Wide range of lengths and a variety of collet series sizes covers all machining applications.



BIG-PLUS tools can be used in machining centers with conventional spindles.

For BDV50, refer to the following page.

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	MAX. min <sup>-1</sup>	Collet Model	Nut Model	Weight (kg)
<b>BDV40-MEGA 6N- 60</b>	0.25 – 6	20	60	29	35,000	NBC 6-□	MGN 6	1.0
- 90			90	54	35,000			1.1
-135			135	99	20,000			1.2
-165			165	129	14,000			1.2
-200			200	165	9,000			1.3
<b>-MEGA 8N- 60</b>	0.5 – 8	25	60	29	35,000	NBC 8-□	MGN 8	1.0
- 90			90	56	35,000			1.1
-135			135	101	20,000			1.3
-165			165	131	14,000			1.4
-200			200	166	9,000			1.5
<b>-MEGA10N- 60</b>	1.5 – 10	30	60	29	35,000	NBC10-□	MGN10	1.1
- 90			90	58	35,000			1.2
-135			135	103	20,000			1.4
-165			165	133	15,000			1.6
-200			200	168	10,000			1.7
<b>-MEGA13N- 60</b>	2.5 – 13	35	60	33	35,000	NBC13-□	MGN13	1.1
- 90			90	60	35,000			1.3
-135			135	105	20,000			1.6
-165			165	135	15,000			1.8
-200			200	170	10,000			2.0
<b>-MEGA16N- 60</b>	2.5 – 16	42	60	34	30,000	NBC16-□	MGN16	1.2
- 90			90	63	30,000			1.5
-135			135	108	20,000			1.9
-165			165	138	15,000			2.2
-200			200	173	10,000			2.5
<b>-MEGA20N- 60</b>	2.5 – 20	46	60	39	30,000	NBC20-□	MGN20	1.3
- 90			90	69	30,000			1.6
-135			135	114	20,000			2.0
-165			165	144	15,000			2.3
-200			200	179	10,000			2.6

1. MEGA NUT is included.

For NEW BABY COLLET for ENDMILL P93

For NEW BABY COLLET P92

For MEGA WRENCH P47

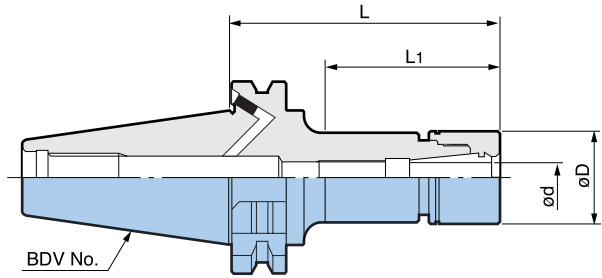
For ADJUSTING SCREW P47

# MEGA NEW BABY CHUCK<sup>®</sup> PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$

Coolant-through hole



MAX.  
20,000  
min<sup>-1</sup>



BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L1	MAX. min <sup>-1</sup>	Collet Model	Nut Model	Weight (kg)
<b>BDV50-MEGA 6N- 90</b>	0.25- 6	20	90	49	20,000	NBC 6-□	MGN 6	3.0
-120			120	79	20,000			3.0
-165			165	124	14,000			3.1
-200			200	159	9,000			3.2
<b>-MEGA 8N- 90</b>	0.5 - 8	25	90	49	20,000	NBC 8-□	MGN 8	3.1
-120			120	79	20,000			3.2
-165			165	124	16,000			3.3
-200			200	159	11,000			3.4
<b>-MEGA10N- 90</b>	1.5 - 10	30	90	54	20,000	NBC10-□	MGN10	3.2
-120			120	79	20,000			3.3
-165			165	124	16,000			3.5
-200			200	159	12,000			3.7
<b>-MEGA13N- 90</b>	2.5 - 13	35	90	54	18,000	NBC13-□	MGN13	3.2
-120			120	79	18,000			3.4
-165			165	124	16,000			3.7
-200			200	159	12,000			3.9
<b>-MEGA16N- 90</b>	2.5 - 16	42	90	54	17,000	NBC16-□	MGN16	3.4
-120			120	84	17,000			3.7
-165			165	129	16,000			4.1
-200			200	164	13,000			4.4
<b>-MEGA20N- 90</b>	2.5 - 20	46	90	54	16,000	NBC20-□	MGN20	3.5
-120			120	84	16,000			3.8
-165			165	129	15,000			4.3
-200			200	164	13,000			4.6

1. MEGA NUT is included.

Spare Parts		Accessories							
MEGA NUT		MEGA WRENCH	NBC COLLET	SEALING NUT	ADJUSTING SCREW				
MEGA NEW BABY CHUCK	Model	Model	Model	Model	Model	G	L	B	
	MEGA 6N	MGN 6	MGR20	NBC 6-□	MPS 6-□	NBA 6B	M 7	12	2
	MEGA 8N	MGN 8	MGR25	NBC 8-□	MPS 8-□	NBA 8B	M 9	13	2.5
	MEGA10N	MGN10	MGR30	NBC10-□	MPS10-□	NBA10B	M11	16	3
	MEGA13N	MGN13	MGR35	NBC13-□	MPS13-□	NBA13B	M14	20	4
	MEGA16N	MGN16	MGR42	NBC16-□	MPS16-□	NBA16B	M18	20	4
	MEGA20N	MGN20	MGR46	NBC20-□	MPS20-□	NBA20B	M21	20	4

1. Please be aware that the rubber seal in the Adjusting Screw may be stripped off due to high pressure coolant.

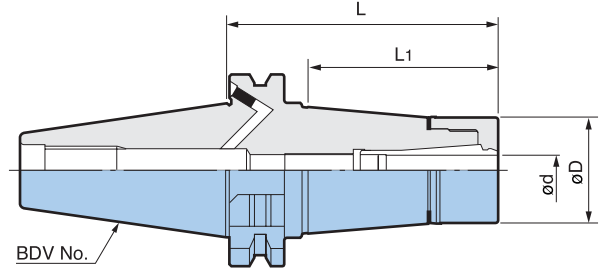
# MEGA E CHUCK<sup>®</sup> PAT. Clamping Range : $\varnothing 3$ - $\varnothing 12$

Coolant-through hole



Exclusively designed with the advanced technology for high speed endmilling. The long gripping length of the collet provides a powerful gripping force.

MAX.  
30,000  
min<sup>-1</sup>



BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	$\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	MAX. min <sup>-1</sup>	Collet Model	Nut Model	Weight (kg)
<b>BDV40-MEGA 6E- 60</b>	3 – 6	25	60	30.4	30,000	MEC 6-□	MEN 6	1.1
- 90			90	59	30,000			1.2
-120			120	92	29,000			1.4
<b>-MEGA 8E- 60</b>	3 – 8	30	60	30.4	30,000	MEC 8-□	MEN 8	1.2
- 90			90	62	30,000			1.3
-120			120	93	29,000			1.5
<b>-MEGA 10E- 60</b>	3 – 10	35	60	33	30,000	MEC10-□	MEN10	1.3
- 90			90	63	30,000			1.4
-120			120	92	29,000			1.7
<b>-MEGA 13E- 60</b>	3 – 12	42	60	35	30,000	MEC13-□	MEN13	1.5
- 90			90	60	30,000			1.7
-120			120	95	29,000			1.9
<b>BDV50-MEGA 6E-120</b>	3 – 6	25	120	89	20,000	MEC 6-□	MEN 6	3.3
-165			165	134	14,000			3.8
<b>-MEGA 8E-120</b>	3 – 8	30	120	89	20,000	MEC 8-□	MEN 8	3.4
-165			165	134	16,000			3.9
<b>-MEGA 10E- 90</b>	3 – 10	35	90	59	20,000	MEC10-□	MEN10	3.3
-120			120	89	20,000			3.6
-165			165	134	16,000			4.1
<b>-MEGA 13E- 90</b>	3 – 12	42	90	59	18,000	MEC13-□	MEN13	3.6
-120			120	89	18,000			3.8
-165			165	136	16,000			4.4

1. MEGA E NUT is included.

MEGA E CHUCK	Spare Parts	Accessories			
	MEGA E NUT	MEGA WRENCH	MEGA E COLLET	SEALING NUT MEGA E PERFECT SEAL	ADJUSTING SCREW
	Model	Model	Model	Model	G L B
MEGA 6E	<b>MEN 6</b>	<b>MGR25</b>	<b>MEC 6-□</b>	<b>EPS 6-□</b>	<b>NBA 6B</b> M 7 12 2
MEGA 8E	<b>MEN 8</b>	<b>MGR30</b>	<b>MEC 8-□</b>	<b>EPS 8-□</b>	<b>NBA 8B</b> M 9 13 2.5
MEGA10E	<b>MEN10</b>	<b>MGR35</b>	<b>MEC10-□</b>	<b>EPS10-□</b>	<b>NBA10B</b> M11 16 3
MEGA13E	<b>MEN13</b>	<b>MGR42</b>	<b>MEC13-□</b>	<b>EPS13-□</b>	<b>NBA13B</b> M14 20 4

1. Please be aware that the rubber seal in the Adjusting Screw may be stripped off due to high pressure coolant.

# MEGA DOUBLE POWER CHUCK<sup>®</sup> PAT. Clamping Range : $\varnothing 16 - \varnothing 42$

Coolant-through hole

**Type DS** For coolant to cutting tool periphery

Close to integral rigidity and precision of a solid toolholder. Flange contacting nut assures highest rigidity.

MAX.  
**25,000**  
min<sup>-1</sup>

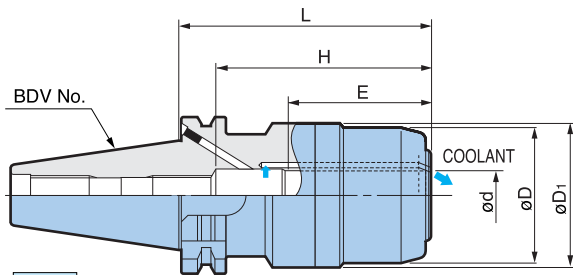


Fig.1

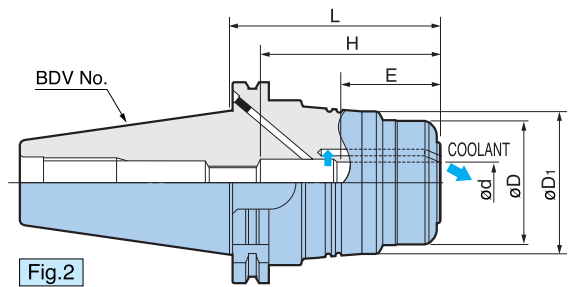


Fig.2

BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	Fig.	$\varnothing d$	$\varnothing D$	$\varnothing D_1$	L	H	Min Clamping Length E	MAX. min <sup>-1</sup>	Weight (kg)
<b>BDV40-MEGA16DS- 90</b>	1	16	46	55	92.4	73	52	25,000	1.9
<b>-MEGA20DS-100</b>		20	55	55.7	102.4	71 – 81	58	22,000	2.1
<b>-MEGA25DS-100</b>		25	62	62.7	102.4	71 – 81	58	18,000	2.4
<b>-MEGA32DS-100</b>		32	70	70.7	102.4	76 – 86	67	12,000	2.5
<b>BDV50-MEGA16DS- 70</b>	2	16	46	55	72.4	73	52	20,000	3.5
<b>-MEGA20DS-100</b>		20	60	69	102.4	71 – 81	58	20,000	4.9
<b>-MEGA25DS-105</b>		25	70	77	107.4	76 – 86	67	18,000	5.4
<b>-MEGA32DS-105</b>	1	32	80	86	107.4	80 – 94	73	15,000	5.7
<b>-MEGA42DS-105</b>		42	99	99.7	107.4	90 – 107		12,000	6.6

1. Wrench is ordered separately.

For STRAIGHT COLLET P95

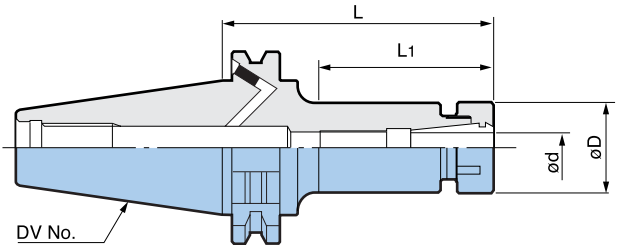
Accessories							
MEGA DOUBLE POWER CHUCK	MEGA WRENCH	ADJUSTING SCREW					
	Model	Model	$\varnothing D$	L	L <sub>1</sub>	G	W
BDV40-MEGA16DS	<b>MGR46</b>	—	—	—	—	—	—
-MEGA20DS	<b>MGR55</b>	<b>HMA-M16</b>	19	27	6	M16P1.5	8
-MEGA25DS	<b>MGR62</b>	<b>HMA-M16</b>					10
-MEGA32DS	<b>MGR70</b>	<b>HMA-M16S</b>					10
BDV50-MEGA16DS	<b>MGR46</b>	—	—	—	—	—	—
-MEGA20DS	<b>MGR60</b>	<b>HMA-M16</b>	19	27	6	M16P1.5	8
-MEGA25DS	<b>MGR70</b>	<b>HMA-M16</b>					10
-MEGA32DS	<b>MGR80</b>	<b>HMA-M24</b>					10
-MEGA42DS	<b>MGR99</b>	<b>HMA-M24</b>	30	36	9.5	M24P1.5	10

Coolant-through hole

# NEW BABY CHUCK PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$

Great variety in length in order to support high precision machining.

※MAX.  
20,000  
min<sup>-1</sup>



For DV50, refer to the following page.

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L <sub>1</sub>	Collet Model	Nut Model	Weight (kg)
<b>DV40-NBS 6- 60</b>	0.25 – 6	20	60	28	NBC 6-□	NBN 6	1.0
- 90			90	54			1.1
-135			135	99			1.2
-165			165	129			1.2
-200			200	164			1.3
<b>-NBS 8- 60</b>	0.5 – 8	25	60	28	NBC 8-□	NBN 8	1.0
- 90			90	56			1.1
-135			135	101			1.3
-165			165	131			1.4
-200			200	166			1.5
<b>-NBS10- 60</b>	1.5 – 10	30	60	28	NBC10-□	NBN10	1.1
- 90			90	58			1.2
-135			135	103			1.4
-165			165	133			1.6
-200			200	168			1.8
<b>-NBS13- 60</b>	2.5 – 13	35	60	31	NBC13-□	NBN13	1.1
- 90			90	60			1.3
-135			135	105			1.6
-165			165	135			1.8
-200			200	170			2.0
<b>-NBS16- 60</b>	2.5 – 16	42	60	33	NBC16-□	NBN16	1.2
- 90			90	63			1.5
-135			135	108			1.9
-165			165	138			2.2
-200			200	173			2.5
<b>-NBS20- 60</b>	2.5 – 20	46	60	39	NBC20-□	NBN20	1.3
- 90			90	69			1.6
-135			135	114			2.0
-165			165	144			2.3
-200			200	179			2.6

1. NEW BABY NUT is included.  
2. ※Max. 20,000 min<sup>-1</sup> is valid for DV40 with L = 60 or 90mm.

For NEW BABY COLLET for ENDMILL P93

For NEW BABY COLLET P92

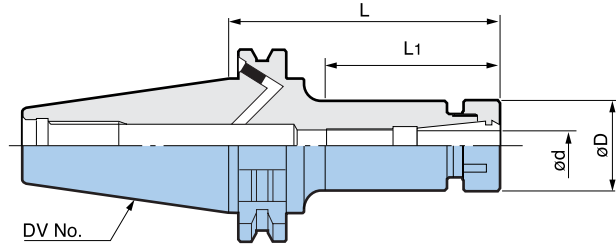
For WRENCH P51

For ADJUSTING SCREW P51

For TAP DRIVING BACK STOP P94

Coolant-through hole

# NEW BABY CHUCK PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$



Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L1	Collet Model	Nut Model	Weight (kg)
<b>DV50-NBS 6- 90</b>	0.25 – 6	20	90	49	NBC 6-□	NBN 6	3.0
-120			120	79			3.0
-165			165	124			3.1
-200			200	159			3.2
<b>-NBS 8- 90</b>	0.5 – 8	25	90	49	NBC 8-□	NBN 8	3.1
-120			120	79			3.2
-165			165	124			3.3
-200			200	159			3.4
<b>-NBS10- 90</b>	1.5 – 10	30	90	49	NBC10-□	NBN10	3.2
-120			120	79			3.3
-165			165	124			3.5
-200			200	159			3.7
<b>-NBS13- 90</b>	2.5 – 13	35	90	54	NBC13-□	NBN13	3.3
-120			120	79			3.4
-165			165	124			3.7
-200			200	159			3.9
<b>-NBS16- 75</b>	2.5 – 16	42	75	39	NBC16-□	NBN16	3.5
- 90			90	54			3.6
-120			120	84			3.9
-165			165	129			4.3
-200			200	164			4.6
<b>-NBS20- 75</b>	2.5 – 20	46	75	39	NBC20-□	NBN20	3.5
- 90			90	54			3.7
-120			120	84			4.0
-165			165	129			4.5
-200			200	164			4.8

1. NEW BABY NUT is included.

Spare Parts		Accessories						
NEW BABY NUT		WRENCH	NBC COLLET	BABY PERFECT SEAL	ADJUSTING SCREW			
NEW BABY CHUCK	Model	Model	Model	Model	Model	G	L	B
NBS 6	<b>NBN 6</b>	<b>NBK 6</b>	<b>NBC 6-□</b>	<b>BPS 6-□</b>	<b>NBA 6B</b>	M 7	12	2
NBS 8	<b>NBN 8</b>	<b>NBK 8</b>	<b>NBC 8-□</b>	<b>BPS 8-□</b>	<b>NBA 8B</b>	M 9	13	2.5
NBS10	<b>NBN10</b>	<b>NBK10</b>	<b>NBC10-□</b>	<b>BPS10-□</b>	<b>NBA10B</b>	M11	16	3
NBS13	<b>NBN13</b>	<b>NBK13</b>	<b>NBC13-□</b>	<b>BPS13-□</b>	<b>NBA13B</b>	M14	20	4
NBS16	<b>NBN16</b>	<b>NBK16</b>	<b>NBC16-□</b>	<b>BPS16-□</b>	<b>NBA16B</b>	M18	20	4
NBS20	<b>NBN20</b>	<b>NBK20</b>	<b>NBC20-□</b>	<b>BPS20-□</b>	<b>NBA20B</b>	M21	20	4

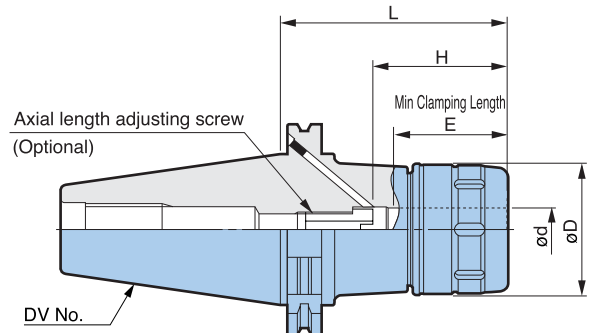
1. Please be aware that the rubber seal in the Adjusting Screw may be stripped off due to high pressure coolant.

For TAP DRIVING BACK STOP **P94**

# NEW Hi-POWER MILLING CHUCK

Coolant-through hole  
Clamping Range :  $\varnothing 20 - \varnothing 42$

BIG's original design of slit structure supports heavy and finish end milling with high power and precision.



Model	$\varnothing d$	$\varnothing D$	L	H	Min. Clamping Length E	C-Spanner Model	Weight (kg)
<b>DV40-HMC20- 85</b>	20	52	85	69 – 79	56	FK52- 55	1.7
<b>-105</b>			105				1.9
<b>-120</b>			120				2.1
<b>-HMC25- 95</b>	25	62	95	71 – 81	56	FK58- 62	2.0
<b>-105</b>			105				2.2
<b>-HMC32- 95</b>	32	70	95	79 – 84	65	FK68- 75	2.1
<b>-105</b>			105				2.4
<b>-135</b>			135				2.9
<b>DV50-HMC20-105</b>	20	60	105	69 – 79	56	FK58- 62	4.6
<b>-135</b>			135				5.2
<b>-HMC25-105</b>	25	62	105	74 – 84	65	FK58- 62	4.6
<b>-135</b>			135				5.3
<b>-HMC32-105</b>	32	80	105	78 – 95	71	FK80- 90	5.2
<b>-135</b>			135				6.3
<b>-165</b>			165				7.4
<b>-HMC42-105</b>	42	89	105	93 – 105	73	FK92-100	6.0
<b>-135</b>			135				7.4
<b>-165</b>			165				9.1

1. Wrench and Axial Adjusting Screw is ordered separately.  
2. "H" indicates the adjustment length with an Adjusting Screw.

For STRAIGHT COLLET P95

Accessories									
NEW Hi-POWER MILLING CHUCK	C-SPANNER	MEGA WRENCH ※	ADJUSTING SCREW						
	Model	Model	Model	$\varnothing D$	L	L <sub>1</sub>	G	W	
DV40-HMC20	FK52- 55	MGR52	HMA-M16	19	27	6	M16P1.5	8	
-HMC25	FK58- 62	MGR62	HMA-M16	19	27	6	M16P1.5	8	
-HMC32	FK68- 75	MGR70	HMA-M16S	19	27	6	M16P1.5	10	
DV50-HMC20	FK58- 62	MGR60	HMA-M16	19	27	6	M16P1.5	8	
-HMC25	FK58- 62	MGR62	HMA-M16	19	27	6	M16P1.5	8	
-HMC32	FK80- 90	MGR80	HMA-M24	30	36	9.5	M24P1.5	10	
-HMC42	FK92-100	MGR99	HMA-M24	30	36	9.5	M24P1.5	10	

※ MEGA WRENCH is also available to clamp / release the clamping nut.

# FACE MILL ARBOR Type FMC

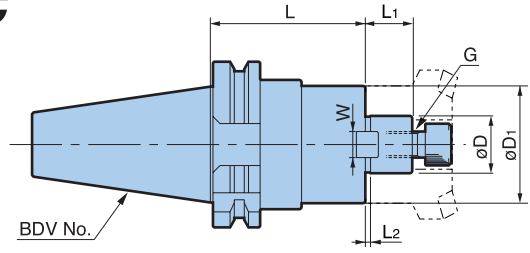


Fig.1

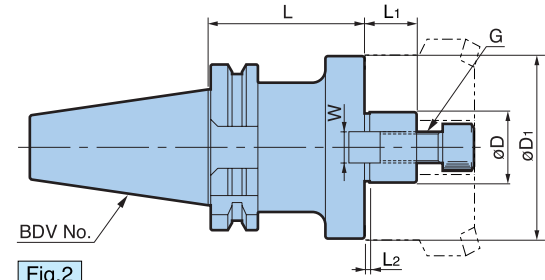


Fig.2

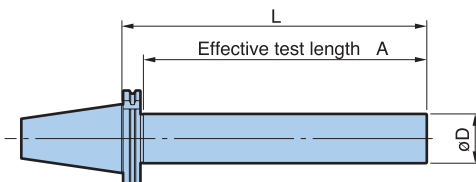
BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	Fig.	Cutter Dia.	øD	øD1	L	L1	L2	W	G	Weight (kg)
<b>BDV40-FMC16- 60</b>	1	40	16	32	60	16	5	8	M 8	1.2
- 90					90					1.6
<b>-FMC22- 60</b>		50, 63	22	45	60	18	5	10	M10	1.4
- 90					90					1.7
<b>-FMC27- 60</b>	2	80	27	70	60	20	6	12	M12	2.0
- 90					90					2.6
<b>-FMC32- 60</b>		100	32	85	60	22	7	14	M16	2.1
- 90					90					2.5
<b>BDV50-FMC22- 60</b>	1	50, 63	22	45	60	18	5	10	M10	4.0
- 90					90					4.4
<b>-150</b>					150					4.8
<b>-FMC27- 60</b>		80	27	70	60	20	6	12	M12	4.3
- 90	90				5.1					
<b>-150</b>	150				6.9					
<b>-FMC32- 60</b>	2	100	32	85	60	22	7	14	M16	4.7
- 90					90					6.0
<b>-150</b>					150					8.0

1. Clamping Screw is Hexagon Socket Head Cap Screw.

2. Body: With coolant-through hole / Clamping Bolt: Without coolant-through hole.

# DYNA TEST



Precision test bar of the highest quality.

- Periodic inspection of machine tools to control production stability.
- Shorter models are ideal for measuring ATC repeatability.

BIG-PLUS tools can be used in machining centers with conventional spindles.

Model	L	A	øD
<b>BDV40-50-L200SD</b>	200	170	50
<b>-L340SD</b>	340	310	
<b>BDV50-50-L200SD</b>	200	178	
<b>-L340SD</b>	340	318	