

BDV/DV SHANK

MEGA MICRO CHUCK	P45
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NEW HI-POWER MILLING CHUCK	P52
FACE MILL ARBOR Type FMC	P53
DYNA TEST	P53



Coolant-through hole

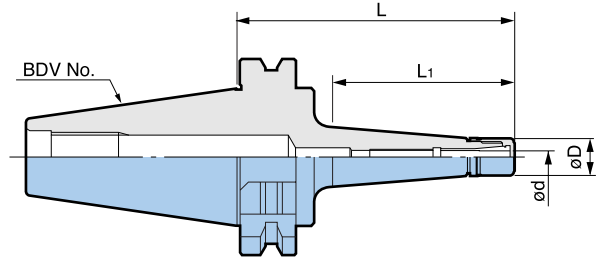
MEGA MICRO CHUCK[®] PAT. Clamping Range : \varnothing 0.45 - \varnothing 6.05

Type T



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






MAX.
35,000
min⁻¹



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

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L ₁	MAX. min ⁻¹	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA3S- 60T	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
-MEGA4S- 60T	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
-MEGA6S- 60T	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	MGN3S	MGR10	NBC3S-□	NBB3S	SC-NBC3S
MEGA4S	MGN4S	MGR12	NBC4S-□	NBB4S	SC-NBC4S
MEGA6S	MGN6S	MGR14	NBC6S-□	NBB6S	SC-NBC6S

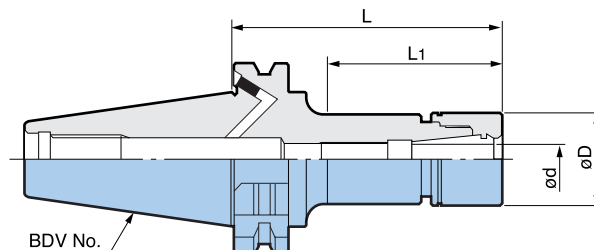
MEGA NEW BABY CHUCK[®] PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$

Coolant-through hole



MAX.
35,000
min⁻¹

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 ₁	MAX. min ⁻¹	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA 6N- 60	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
-MEGA 8N- 60	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
-MEGA10N- 60	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
-MEGA13N- 60	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
-MEGA16N- 60	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
-MEGA20N- 60	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

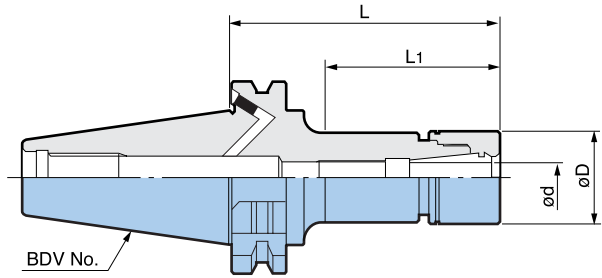
For ADJUSTING SCREW P47

Coolant-through hole

MEGA NEW BABY CHUCK[®] PAT. Clamping Range : $\varnothing 0.25 - \varnothing 20$



MAX.
20,000
min⁻¹



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

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

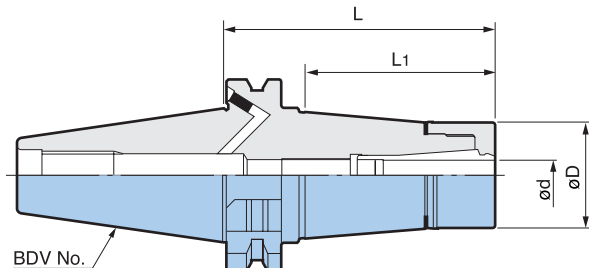
MEGA E CHUCK[®] PAT. Clamping Range : $\varnothing 3$ - $\varnothing 12$

Coolant-through hole



MAX.
30,000
min⁻¹





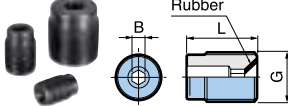
Exclusively designed with the advanced technology for high speed endmilling. The long gripping length of the collet provides a powerful gripping force.



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

Model	$\varnothing d$	$\varnothing D$	L	L ₁	MAX. min ⁻¹	Collet Model	Nut Model	Weight (kg)
BDV40-MEGA 6E- 60	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
-MEGA 8E- 60	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
-MEGA 10E- 60	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
-MEGA 13E- 60	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
BDV50-MEGA 6E-120	3 – 6	25	120	89	20,000	MEC 6-□	MEN 6	3.3
-165			165	134	14,000			3.8
-MEGA 8E-120	3 – 8	30	120	89	20,000	MEC 8-□	MEN 8	3.4
-165			165	134	16,000			3.9
-MEGA 10E- 90	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
-MEGA 13E- 90	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.

Spare Parts		Accessories						
	MEGA E NUT 	MEGA WRENCH 	MEGA E COLLET 	SEALING NUT MEGA E PERFECT SEAL 	ADJUSTING SCREW 			
MEGA E CHUCK	Model	Model	Model	Model	Model	G	L	B
MEGA 6E	MEN 6	MGR25	MEC 6-□	EPS 6-□	NBA 6B	M 7	12	2
MEGA 8E	MEN 8	MGR30	MEC 8-□	EPS 8-□	NBA 8B	M 9	13	2.5
MEGA10E	MEN10	MGR35	MEC10-□	EPS10-□	NBA10B	M11	16	3
MEGA13E	MEN13	MGR42	MEC13-□	EPS13-□	NBA13B	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[®] PAT. Clamping Range : $\phi 16 - \phi 42$

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⁻¹

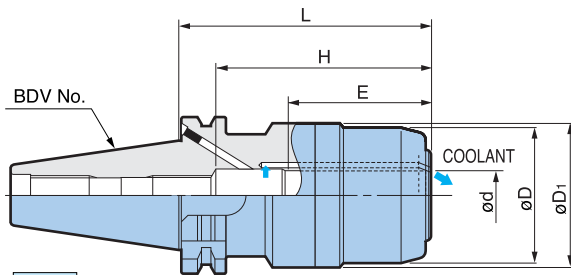


Fig.1

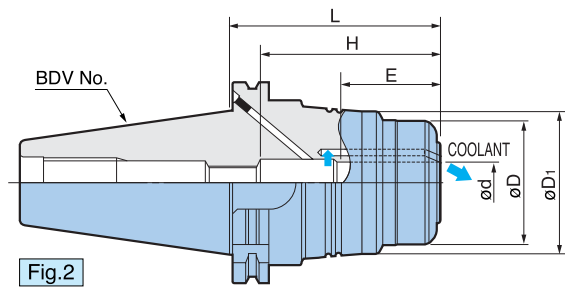


Fig.2

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

Model	Fig.	ϕd	ϕD	ϕD_1	L	H	Min Clamping Length E	MAX. min ⁻¹	Weight (kg)
BDV40-MEGA16DS- 90	1	16	46	55	92.4	73	52	25,000	1.9
-MEGA20DS-100		20	55	55.7	102.4	71 – 81	58	22,000	2.1
-MEGA25DS-100		25	62	62.7	102.4	71 – 81	58	18,000	2.4
-MEGA32DS-100		32	70	70.7	102.4	76 – 86	67	12,000	2.5
BDV50-MEGA16DS- 70	2	16	46	55	72.4	73	52	20,000	3.5
-MEGA20DS-100		20	60	69	102.4	71 – 81	58	20,000	4.9
-MEGA25DS-105		25	70	77	107.4	76 – 86	67	18,000	5.4
-MEGA32DS-105	1	32	80	86	107.4	80 – 94	73	15,000	5.7
-MEGA42DS-105		42	99	99.7	107.4	90 – 107		12,000	6.6

1. Wrench is ordered separately.

For STRAIGHT COLLET P95

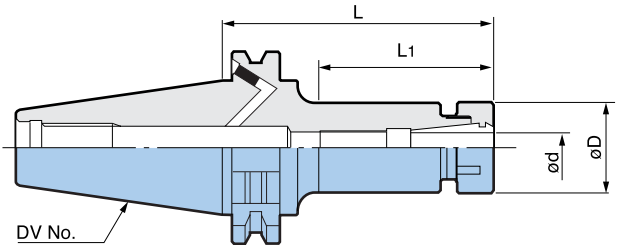
Accessories							
MEGA DOUBLE POWER CHUCK	MEGA WRENCH	ADJUSTING SCREW					
	Model	Model	ϕD	L	L ₁	G	W
BDV40-MEGA16DS	MGR46	—	—	—	—	—	—
-MEGA20DS	MGR55	HMA-M16	19	27	6	M16P1.5	8
-MEGA25DS	MGR62	HMA-M16					10
-MEGA32DS	MGR70	HMA-M16S					10
BDV50-MEGA16DS	MGR46	—	—	—	—	—	—
-MEGA20DS	MGR60	HMA-M16	19	27	6	M16P1.5	8
-MEGA25DS	MGR70	HMA-M16					8
-MEGA32DS	MGR80	HMA-M24					10
-MEGA42DS	MGR99	HMA-M24	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⁻¹



For DV50, refer to the following page.

Model	Clamping Range $\varnothing d$	$\varnothing D$	L	L ₁	Collet Model	Nut Model	Weight (kg)
DV40-NBS 6- 60	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
-NBS 8- 60	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
-NBS10- 60	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
-NBS13- 60	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
-NBS16- 60	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
-NBS20- 60	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⁻¹ is valid for DV40 with L = 60 or 90mm.

For NEW BABY COLLET for ENDMILL P93

For NEW BABY COLLET P92

For WRENCH P51

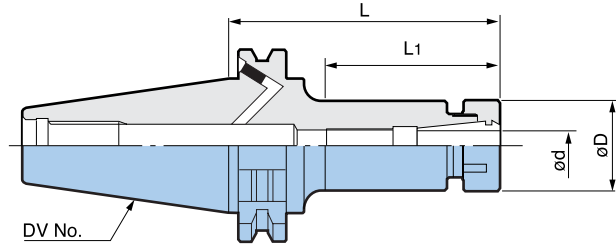
For ADJUSTING SCREW P51

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)
DV50-NBS 6- 90	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
-NBS 8- 90	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
-NBS10- 90	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
-NBS13- 90	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
-NBS16- 75	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
-NBS20- 75	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 FOR ENDMILL COLLET P92 P93	BABY PERFECT SEAL P98	ADJUSTING SCREW Rubber L B G			
NEW BABY CHUCK	Model	Model	Model	Model	Model	G	L	B
NBS 6	NBN 6	NBK 6	NBC 6-□	BPS 6-□	NBA 6B	M 7	12	2
NBS 8	NBN 8	NBK 8	NBC 8-□	BPS 8-□	NBA 8B	M 9	13	2.5
NBS10	NBN10	NBK10	NBC10-□	BPS10-□	NBA10B	M11	16	3
NBS13	NBN13	NBK13	NBC13-□	BPS13-□	NBA13B	M14	20	4
NBS16	NBN16	NBK16	NBC16-□	BPS16-□	NBA16B	M18	20	4
NBS20	NBN20	NBK20	NBC20-□	BPS20-□	NBA20B	M21	20	4

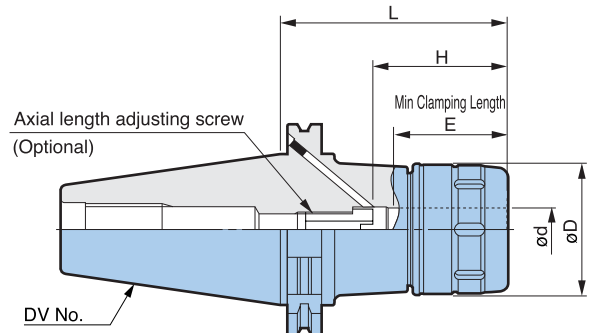
1. Please be aware that the rubber seal in the Adjusting Screw may be stripped off due to high pressure coolant.

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)
DV40-HMC20- 85	20	52	85	69 – 79	56	FK52- 55	1.7
-105			105				1.9
-120			120				2.1
-HMC25- 95	25	62	95	71 – 81	56	FK58- 62	2.0
-105			105				2.2
-HMC32- 95	32	70	95	79 – 84	65	FK68- 75	2.1
-105			105				2.4
-135			135				2.9
DV50-HMC20-105	20	60	105	69 – 79	56	FK58- 62	4.6
-135			135				5.2
-HMC25-105	25	62	105	74 – 84	65	FK58- 62	4.6
-135			135				5.3
-HMC32-105	32	80	105	78 – 95	71	FK80- 90	5.2
-135			135				6.3
-165			165				7.4
-HMC42-105	42	89	105	93 – 105	73	FK92-100	6.0
-135			135				7.4
-165			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 ₁	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

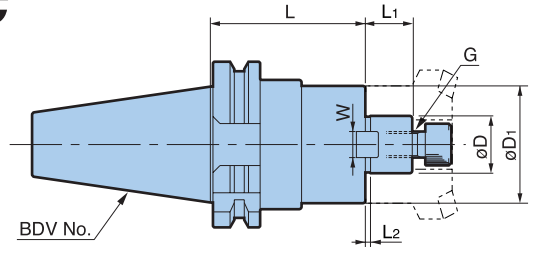


Fig.1

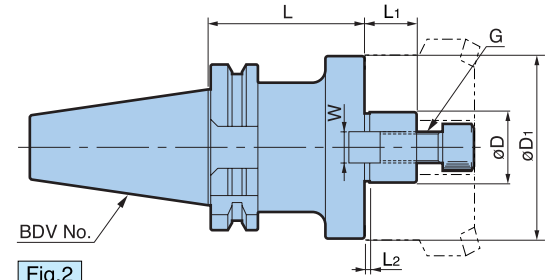


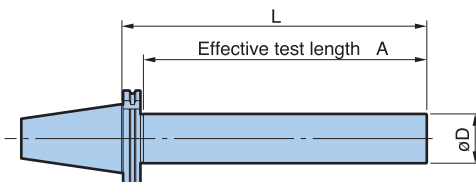
Fig.2

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)
BDV40-FMC16- 60	1	40	16	32	60	16	5	8	M 8	1.2
- 90					90					1.6
-FMC22- 60		50, 63	22	45	60	18	5	10	M10	1.4
- 90					90					1.7
-FMC27- 60	2	80	27	70	60	20	6	12	M12	2.0
- 90					90					2.6
-FMC32- 60		100	32	85	60	22	7	14	M16	2.1
- 90					90					2.5
BDV50-FMC22- 60	1	50, 63	22	45	60	18	5	10	M10	4.0
- 90					90					4.4
-150					150					4.8
-FMC27- 60		80	27	70	60	20	6	12	M12	4.3
- 90	90				5.1					
-150	150				6.9					
-FMC32- 60	2	100	32	85	60	22	7	14	M16	4.7
- 90					90					6.0
-150					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
BDV40-50-L200SD	200	170	50
-L340SD	340	310	
BDV50-50-L200SD	200	178	
-L340SD	340	318	