

Note: Product parameters may be changed without prior notice, please understand!



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Official Website



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MicTTo[®]
CREATE VALUABLE PRODUCT AND SERVICE FOR CUSTOMER



PRECISION POWER CHUCK AND CLAMP

MICTTO

COMPANY INTRODUCTION

MicTTo
Registered Trademark

THREE
Number of Invention Patents

ISO9001:2015
Lloyd's Quality Management
System Certification
Certificate Number:
ISO 9001-0072312

MicTTo is headquartered in Ningbo, China, and is a high-tech enterprise integrating design and research, production and sales. It has factories in Ningbo, Xianyang and Thailand.

Up to now, **MicTTo** has obtained more than 30 patents, including 7 invention patents and 24 utility model patents, and more than 10 additional invention patents have entered the substantive examination. There are 5 registered trademarks, among which the trademark "MICTTO" is an international registered trademark. The import and export qualification of the company has been opened. Products have been exported to Vietnam, Malaysia, Egypt, Thailand, and other dozens of countries.

MicTTo

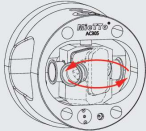
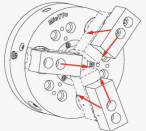
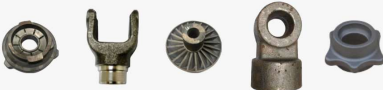
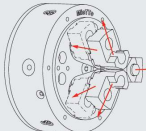
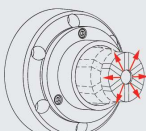
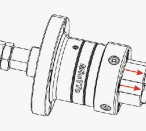
HONORARY PATENT



BRAND CUSTOMERS



PRODUCT DESCRIPTION

PRODUCT NAME	PRODUCT CHARACTERISTICS	FUNCTIONAL SCHEMATIC DIAGRAM OF CHUCK	APPLICATION FIELDS	TYPICAL PRODUCTS
INDEXING CHUCK 	The indexing chuck can be programmed to control the indexing function along the vertical position of the spindle axis, so as to realize one-step processing of polyhedral parts. There are 8-aliquot chuck and 6-aliquot chuck belonging to the standard models, which can realize the indexing function of 8x45° and 6x60° respectively. Furthermore, the non-standard indexing angle can be customized according to customer requirements.		The product has involved in many fields where their axes in the same plane and need turning or milling in one clamping. Typical industries are spider and tripod spider of automotive parts, industrial valves, water pumps and valves, fluid valves, refrigeration and other valve industries, solenoid valves, oil cylinders, hydraulic fittings and other construction machinery industries.	
OD DOWN CHUCK 	The outside draw-down chuck provides an axial force towards the inner side of the chuck while realizing the radial clamping of the product, so that the product can realize the radial clamping and axial bearing. At present, there are three kinds of standard diagonal chucks like two-jaw type, three-jaw type and six-jaw type.		In the field of turning or milling with heavy cutting, products with draft angle, needs air tightness detection and requires high parallelism. The typical industries are automobile parts gearbox industry, casting product processing industry, long shaft processing industry, welding flange processing industry for engineering, etc. The chuck can be superimposed on the vertical seat to realize the product clamping on the machining center.	
ID DOWN CHUCK 	The inside draw-down chuck provides an axial force towards the inner side of the chuck while realizing the radial expansion of the product, so that the product can realize the radial expansion and axial bearing. The standard diagonal internal expansion chuck is mainly a three-jaw type.		In the field of internal clamping large hole diameter (which is greater than 100mm) , needs air tightness detection and requires high parallelism. It is widely used in the second order precision process of products, which clamps the turned inner hole and uses the turned end surface as the end position, turning the outer contour and another end surface. The chuck can be superimposed on the vertical seat to realize the product clamping on the machining center.	
RUBBER COLLET CHUCK 	Rubber collet chuck provides strong locking force and also has ultra-high clamping accuracy when realizing all-inclusive clamping of the product. Compared with the metal collet chuck, the rubber collet of the rubber collet chuck has more elastic space and more product clamping space.		In the field of heavy cutting, high precision machining and automatic machining of bar products, hardness end position or air tightness detection. It can be superimposed to meet the requirements of rough surface clamping and precision process position clamping. The chuck can be superimposed on the vertical seat to realize the product clamping on the machining center.	
RUBBER MANDREL CHUCK 	Rubber mandrel chuck realizes all inclusive expansion of the product, which has better expansion rigidity and higher expansion accuracy. Compared with metal mandrel chuck, rubber mandrel of rubber mandrel chuck has more elastic space and product clamping space.		Parts such as collects that need to be processed with internal holes, products with high coaxiality between internal holes and external dimensions, and in the field of automatic processing metal-type internal expansion can't meet the space requirements of parts loading and unloading. It can be superimposed with hardness end position or air tightness detection, meet the requirements of rough surface clamping and precision process position clamping. The chuck can be superimposed on the vertical seat to realize the product clamping on the machining center.	
HYDRAULIC FACE DRIVER 	The hydraulic end driver takes the top as the product benchmark, and the end face pin teeth provide auxiliary support, and the built in compensation mechanism automatically adjusts the error within the end face range. Compared to ordinary centers, the clamping is more stable.		Motor shafts, transmission shafts, steering shafts, crankshafts and other shaft products can be clamped to complete the processing of outer diameter size.	

INDEXING CHUCK

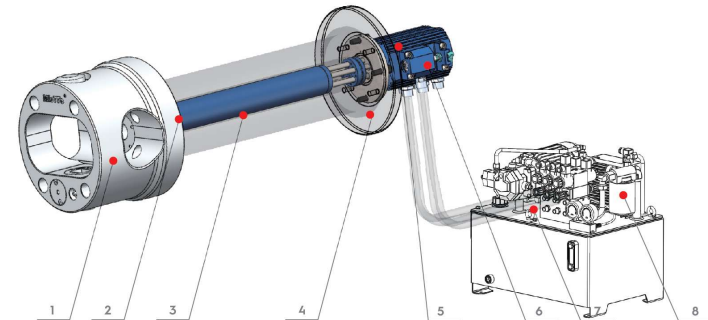


MicTo®

CLASSIC CASE

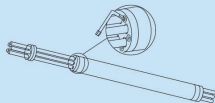


SYSTEM COMPOSITION



NO.	NAME	FUNCTION DESCRIPTION
1	Indexing chuck	Implement clamping and indexing of workpieces
2	Front end flange	Used to connect the shaft nose and indexing chuck
3	Telescopic connecting rod	The oil circuit used to connect the chuck and oil separator
4	Tail flange	Used to connect the oil separator and the tail end of the machine tool
5	Oil separator	Realizing the distribution and supply of oil circuits in a rotating state
6	Stuck alarm mechanism	Provide in-place detection signals for the 45 ° and 90 ° top rods of the chuck
7	Oil pipe assembly	The oil circuit used to connect the oil separator and hydraulic station
8	Hydraulic station (optional)	Provide clamping and indexing pressure to the chuck

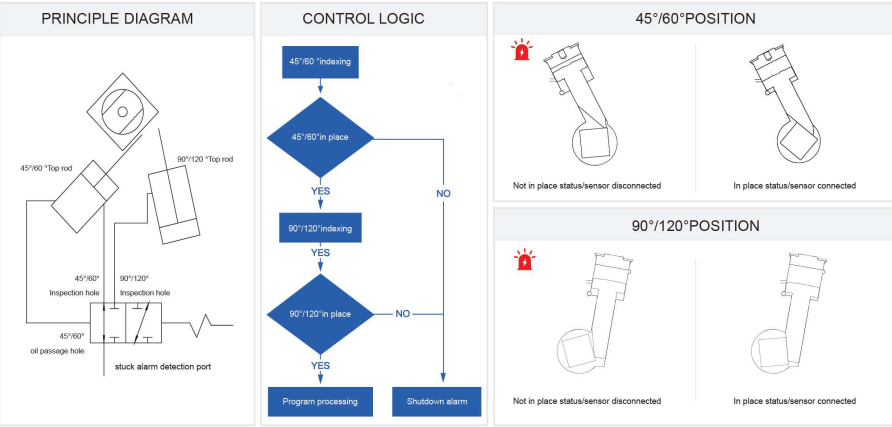
PRODUCT ADVANTAGES

ADVANTAGES	MICCTO	OTHER BRANDS																								
Have High Precision And Long Service Life	☒ Imported multi-axis linkage equipment one step manufacturing, good position tolerance. ☒ Lloyd's quality system certification. (Certificate Number: ISO 9001-0072312) ☒ The core standard parts are imported from Germany, Italy and Japan (like Schaeffler, etc.)	☒ Ordinary equipment manufactured by the sub-process processing, poor position tolerance. ☒ No Lloyd's quality system certification. ☒ Standard parts are domestic brands (Harbin etc.)																								
	☒ Lifelong paid maintenance service. ☒ Standardized production, components and accessories are interchangeable. ☒ Quality traceability of core accessories in the whole life cycle.	☒ During the warranty period, some manufacturers begin to evade the after-sales service. ☒ Single-piece or small-batch produce, spare parts can't be interchanged. ☒ No quality traceability.																								
Excellent After-Sales Service																										
Reliable And Safe	☒ Reasonable design and excellent processing quality bring extremely low failure rate. ☒ One oil circuit detects two locked positions, which is simple and reliable.	☒ Internal processing quality detection is uneven, and the failure rate is high. ☒ There is no detection or complicated detection mechanism.																								
	☒ The structural design based on CAE optimization has good rigidity and less weight. ☒ The clamp-force and lock-force are higher than those of other brand chucks of the same kind.<table><tr><td></td><td>MicTto</td><td>Other Brands</td><td>Difference</td></tr><tr><td>Downforce N</td><td>14530</td><td>13786</td><td>MicTto is larger than5%</td></tr><tr><td>Locking Force N</td><td>7543</td><td>5499</td><td>MicTto is larger than5%37%</td></tr></table>		MicTto	Other Brands	Difference	Downforce N	14530	13786	MicTto is larger than5%	Locking Force N	7543	5499	MicTto is larger than5%37%	☒ The products use the open design, the opening is easy to deform, and the chuck is deformed by force. ☒ The clamp-force and lock-force are lower than those of MicTto chucks.												
	MicTto	Other Brands	Difference																							
Downforce N	14530	13786	MicTto is larger than5%																							
Locking Force N	7543	5499	MicTto is larger than5%37%																							
High Rigidity, Light Weight	☒ Due to lightweight design, the average weight is 15%-40% lighter than competing brands.<table><tr><td>spec</td><td>AC168</td><td>AC203</td><td>AC225</td><td>AC226</td><td>AC305</td></tr><tr><td>Weight/kg</td><td>15</td><td>24</td><td>30</td><td>42</td><td>64</td></tr></table>	spec	AC168	AC203	AC225	AC226	AC305	Weight/kg	15	24	30	42	64	☒ Due to the bulky structural, the average weight is 15%-40% heavier than MicTto.<table><tr><td>spec</td><td>AC168</td><td>AC203</td><td>AC225</td><td>AC226</td><td>AC305</td></tr><tr><td>Weight/kg</td><td>20</td><td>31</td><td>42</td><td>53</td><td>70</td></tr></table>	spec	AC168	AC203	AC225	AC226	AC305	Weight/kg	20	31	42	53	70
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Simple Installation And Maintenance	☒ The length of the connecting rod is telescopic, convenient operation. Patent Number: CN2018111004402.0 	☒ The connecting rod needs to be cut off on site. 																								
	☒ The clamping side bearing is built-in design, and the upper fit is easy to install.	☒ When installing the upper fit, it is necessary to install the bearing matched, which is complicated to operate.																								

ALARM DEVICE

01 Principle Description

Core Principle: Check whether the 45-degree ejector rod and the 90-degree ejector rod reach the required position.
Principle Description:When the chuck is divided by 45 degrees /60 degrees:When the 45-degree ejector rod /60-degree ejector rod moves, the position of the stuck alarm detection hole is switched to the position of the 45-degree /60-degree detection hole. Only when the 45-degree /60-degree ejector rod is moved in place, the oil circuit of the detection hole will be connected to drive the detection mechanism to reach the preset position, otherwise the detection mechanism can't reach the preset position, and an alarm signal will be sent through the industrial control board. When the chuck is divided by 90 degrees /120 degrees:The principle is the same as that of the 45-degree /60-degree ejector rod, but the difference is that the position of the stuck alarm detection hole will be switched to the position of the 90-degree /120-degree detection hole.



02 Hardware Module

Oil Circuit Switching Mechanism

The oil circuit is switched by this mechanism, so that one oil circuit position can detect two locked positions.

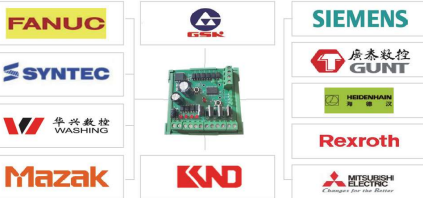
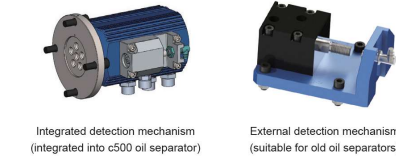


Industrial Control Board

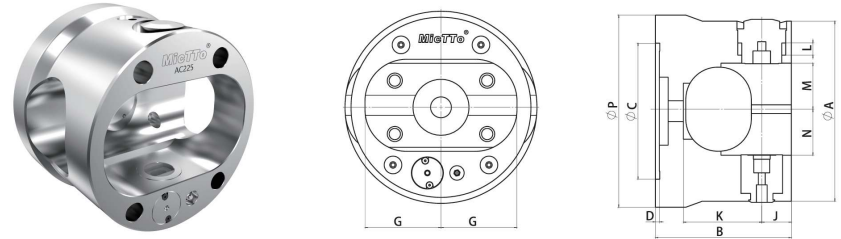
It can simplify the wiring installation of the stuck alarm, and realize the alarm function without modifying the CNC system, PLC. And it can adapt to all the mainstream CNC systems on the market at present.

Testing agency

Convert internal oil circuit signals into position signals and detect them externally through sensors.



1 AC SERIES STANDARD INDEXING CHUCK



PRODUCT ADVANTAGES

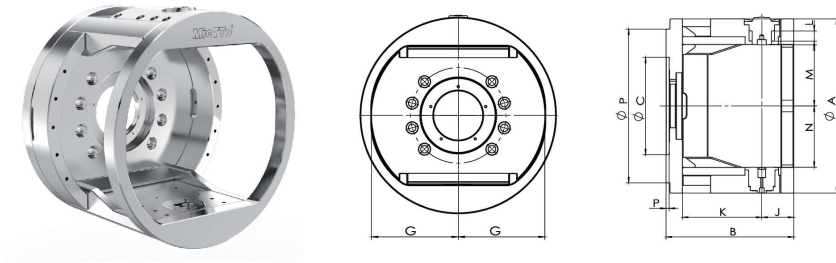
- Multi-Surface Machining**
The same body can be clamped at one time to realize multi-surface machining of 8x45° or 6x60°.
- Quick Die Change**
The products use the plug-in fixture fixing scheme, fixture replacement can be realized within 3 minutes.
- High Accuracy**
The angular indexing accuracy is less than 1', and the repeated positioning is less than 0.01 mm.
- Angle Customization**
Non-standard angles can be customized, please consult our sales personnel or service hotline.
- Floating Backer**
The floating backer with patented technology is superimposed, which extends when positioning and retracts when indexing. Patent Number: CN2014107207703

PRODUCT SIZE TABLE

Models/ Dimensions	A mm	B mm	C mm	D mm	G mm	J mm	K mm	M mm	N mm	P mm
AC-168A/C	168	142	140	3.5	68	35	70	37.9	37.9	190
AC-203A/C	203	158	140	5	82	36	82	48.5	43.5	216
AC-225A/C	225	170	170	5	95	37	95	59.3	54.5	240
AC-256A/C	256	187	220	5	105	42	105	61.5	60	276
AC-305A/C	305	212	220	5	130	45	130	86	84.5	330
AC-400A/C	400	278	300	8	175	58	175	118.8	114.5	416
AC-460A/C	460	308	300	8	205	58	205	137	133	490

Models/ Specifications	Maximum Processing Dimension mm	Clamping Force KN	Clamping Stroke mm	Highest Rotation Speed r.p.m	Spindle Nose No	Spindle Through Hole mm	Net Weight kg
AC-168A/C	136	10.6	9	3500	A2-5	45	15
AC-203A/C	164	11.3	15.2	3000	A2-5	45	24
AC-225A/C	190	11.3	15.2	2800	A2-6	45	30
AC-256A/C	210	14.5	19.1	2500	A2-8	45	42
AC-305A/C	260	14.5	19.1	2200	A2-8	45	61
AC-400A/C	350	31.4	30	1800	A2-11	45	120
AC-460A/C	410	31.4	30	1500	A2-11	45	161

2 LC SERIES LARGE SIZE INDEXING CHUCK



PRODUCT ADVANTAGES



Multi-Surface Machining

The same body can be clamped at one time to realize multi-surface machining of 8x45° or 6x60°.



Lightweight

Lightweight design based on CAE technology, suitable for smaller machine tools.



There Is No Rnd To It

Customizable to a maximum size of 2m.



Convenient Maintenance

Patented modular structure, detachable and easy to maintain.



Flexible Clamping

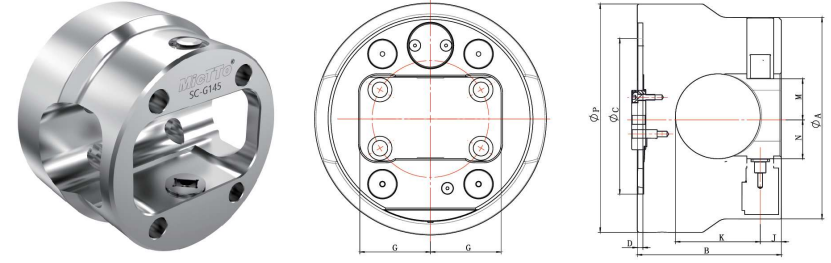
Patent technology ball head clamping seat, which can adaptively and perfectly press irregular products.
Patent: CN202010993384.7

PRODUCT SIZE TABLE

Models/ Dimensions	A mm	B mm	C mm	D mm	G mm	J mm	K mm	M mm	N mm	P mm
LC-570A/C	570	429	380	12	250	105	260	193.5	195	500
LC-680A/C	680	484	380	15	300	110	310	239	239.5	600
LC-850A/C	850	617	520	15	375	150	380	299	199	800
LC-1000A/C	1000	748	720	15	420	201	450	339	344	900
LC-1200A/C	1200	948	720	15	530	201	650	439	444	900

Models/ Specifications	Maximum Processing Dimension mm	Clamping Force KN	Clamping Stroke mm	Highest Rotation Speed r.p.m	Spindle Nose No	Spindle Through Hole mm	Net Weight kg
LC-570A/C	460	56.5	42	1200	A2-15	60	306
LC-680A/C	560	56.5	42	1000	A2-15	60	412.3
LC-850A/C	720	66.3	55	800	A2-20	60	660.6
LC-1000A/C	860	80.0	65	500	A2-28	60	1298
LC-1200A/C	1060	80.0	65	500	A2-28	60	1558

3 SC SERIES SUPER SMALL SIZE INDEXING CHUCK



PRODUCT ADVANTAGES



Multi-Surface Machining

The same body can be clamped at one time to realize multi-surface machining of 8x45° or 6x60°. The angular indexing accuracy is less than 1'.



Centrifugal Compensation

The products use built-in patented centrifugal compensation device, which is suitable for high rotation speed. Patent Number: CN201810318464.5



High Rotation Speed

The highest rotation speed can reach 4000 r.p.m.



Wide Adaptability

The products are suitable for A2-4 spindle nose and other machine tools with smaller spindles.

PRODUCT SIZE TABLE

Models/ Dimensions	A mm	B mm	C mm	D mm	G mm	J mm	K mm	M mm	N mm	P mm
SC-G145A/C	145	102	110	4	50	15	60	29	27.5	164

Models/ Specifications	Maximum Processing Dimension mm	Clamping Force KN	Clamping Stroke mm	Highest Rotation Speed r.p.m	Spindle Nose No	Spindle Through Hole mm	Net Weight kg
SC-G145A/C	110	3.5	9	4000	A2-4	35	9.3

DRAW-DOWN CHUCK

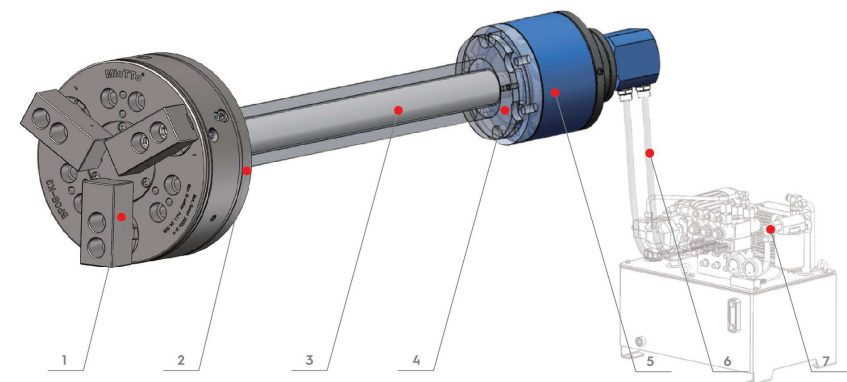


MicTTo®

CLASSIC CASE

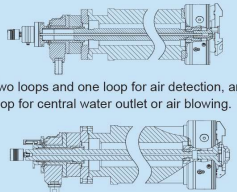
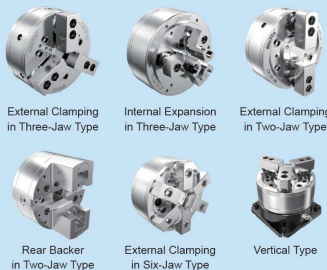


SYSTEM COMPOSITION

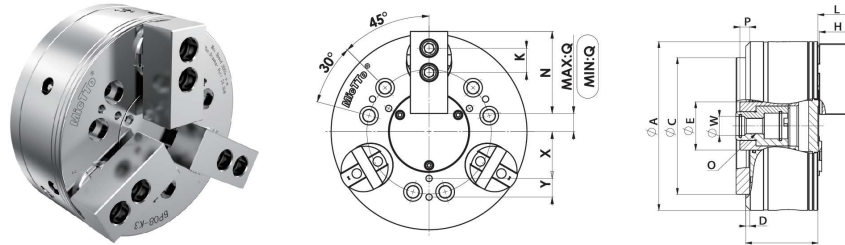


NO.	NAME	FUNCTION DESCRIPTION
1	Three-jaw External Draw-down Chuck	The clamping of the workpiece can be realized.
2	Front Flange	It can be used to connect the nose of the spindle and the draw-down chuck.
3	Pulling Rod	The cylinder tension can be transmitted to the chuck end.
4	Tail Flange	It can be used to connect the oil separator with the tail of the machine tool.
5	Rotary Pulling Cylinder	It can provide the driving tension for chuck clamping.
6	Oil Pipe Assembly	The oil pressure of the hydraulic station can be transmitted to the oil cylinder.
7	Hydraulic Station (Optional)	It can provide power for chuck clamping.

PRODUCT ADVANTAGES

ADVANTAGES	MICTTO	OTHER BRANDS
Stable Clamping	✓ It uses one clamping and one end position, the clamping is stable and reliable. ✓ All-inclusive cylinder with diagonal guide post is stressed and has better rigidity. ✓ It uses the diagonal cone structure, which is not easy to produce the bell mouth phenomenon.	✗ It uses the horizontal and radial clamping, has no axial force, and the clamping stability is poor. ✗ The T-shaped block is stressed in the radial horizontal groove, and its rigidity is poor. ✗ The horizontal groove matches the structure well, which is prone to the bell mouth phenomenon.
High Parallelism	✓ It can meet the requirement of 0.02mm parallelism between the end position surface and the machined surface.	✗ It is impossible to realize the machining with high parallelism requirement of the end position surface and the machined surface.
Overlapping Air Detection Device	✓ Schematic diagram of one loop for central water outlet or air blowing. ✓ Two loops and one loop for air detection, and one loop for central water outlet or air blowing. 	✗ Only the central water outlet or air blowing can be realized singly.
Diversification	✓ Both radial and axial forces can be stressed, and the clamping jaws can be customized in diversities. ✓ It uses the external clamping and internal expansion, has two-jaw type, three-jaw type, and six-jaw type, and vertical and horizontal, which can be used in diversities. 	✗ It uses the radial clamping, the clamping scheme is simple. ✗ There are only a few specifications, and the use situation is monotonous.

1 BP SERIES PRECISION OUTSIDE DRAW-DOWN CHUCK



PRODUCT ADVANTAGES



Clamping Stability

The radial clamping and strong end position make the clamping stable and reliable.



Self-Lubricating

The chuck has self-lubricating structure, which not only prolongs the service life but also ensures the accuracy.



Intelligence

It can provide central water outlet and air tightness deflection at the same time, which is convenient for automatic deployment.



Large Stroke

The stroke of the chuck is 2-3mm larger than that of other brands of the same size.



Lightweight

It uses the lightweight design, which is 8%-10% lighter than that of other chucks of the same size.



Good Sealing

It has good sealing, which can effectively prevent foreign matters and cutting fluid from entering the chuck.

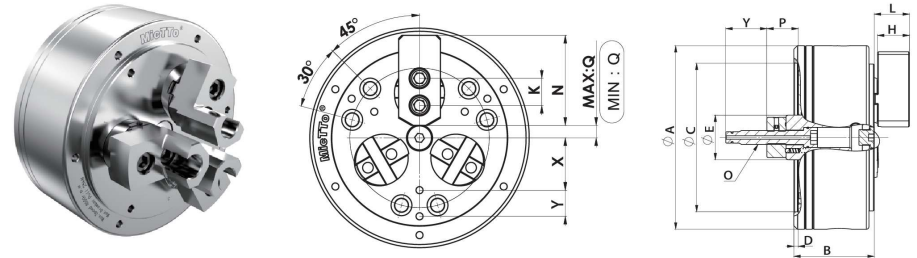
Note: Three jaws, two jaws, and six jaws are optional

PRODUCT SIZE TABLE

Specifications	A mm	B mm	C mm	D mm	G mm	J mm	K mm	Lmin mm	Lmax mm	N mm	O mm	Pmin mm	Pmax mm	Qmin mm	Qmax mm	W mm	X mm	Y mm
BP06-K3	165	83	140	5	38	28	-	32	44.2	70	M16x1.5	1.5	13.7	11.92	16.36	19.97	43	-
BP08-K3	210	90	170	5	60	36.5	26	41.3	53.5	86	M20x1.5	1	13.2	17.36	21.8	24	50	20
BP10-K3	254	107	220	5	67	42.5	32	48	66.2	105	M24x1.5	2.7	20.9	19.22	25.84	27	70	30
BP12-K3	304	120	220	5	67	51	36	55.3	73.5	120	M27x1.5	2.7	20.9	20.89	27.52	27	70	35
BP15-K3	381	128	300	8	90	68	36	87.14	109.61	165	M30x1.5	9.3	31.5	50.54	58.54	30	90	45

Models/ Specifications	Shaft Sleeve Stroke mm	Jaw Stroke mm	Maximum Tensile Force KN	Maximum Clamping Force KN	Highest Rotation Speed r.p.m	Shaft Sleeve Stroke mm	Net Weight kg	Matching Cylinder Model
BP06-K3	12.2	8.88	14.7	24.5	3500	30-160	13	TH105
BP08-K3	12.2	8.88	24.5	44.1	3000	40-210	24	TH125
BP10-K3	18.2	13.24	34.3	59.8	2500	50-250	41	TH125
BP12-K3	18.2	13.24	44.1	73.5	2000	50-300	70	TH150
BP15-K3	22.2	16.2	53.9	93.1	1500	60-410	125	TH150

2 IP SERIES PRECISION INSIDE DRAW-DOWN CHUCK



PRODUCT ADVANTAGES



Clamping Stability

The radial expansion and strong end position make the clamping stable and reliable.



Self-Lubricating

The chuck has self-lubricating structure, which not only prolongs the service life but also ensures the accuracy.



Intelligence

It can provide central water outlet and air tightness the same time, which is convenient for automatic deployment.



Large Stroke

The stroke of the chuck is 2-3mm larger than that of other brands of the same size.



Lightweight

It uses the lightweight design, which is 8%-10% lighter than that of other brand chucks of the same size.



Good Sealing

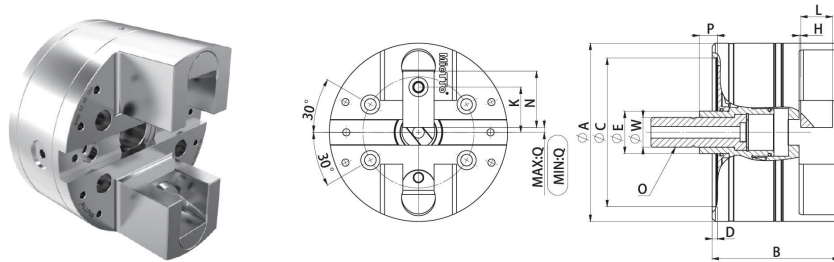
It has good sealing, which can effectively prevent foreign matters and cutting fluid from entering the chuck.

PRODUCT SIZE TABLE

Specifications	A mm	B mm	C mm	D mm	G mm	J mm	K mm	Lmin mm	Lmax mm	N mm	O mm	Pmin mm	Pmax mm	Qmin mm	Qmax mm	W mm	X mm	Y mm
IP06-K3	165	83	140	5	35	28	-	32	44.2	70	M14X2	17	29.2	6.32	10.76	42.5	17.5	39.5
IP08-K3	210	92	170	5	51	36.5	26	41.3	53.5	86	M16X2	23.9	36.1	7.64	12.01	50	25	47
IP10-K3	254	109	220	5	60	44	32	48.6	66.8	105	M24X3	28.7	46.9	9.43	16.06	60	30	50
IP12-K3	300	122	220	5	73	44.5	36	49.1	67.3	120	M24X3	27.4	45.4	15.84	22.39	65	40	63
IP15-K3	380	128	300	8	90	60	36	79.3	101.5	140	M27X3	38	60.2	10	26.2	95	45	70

Models/ Specifications	Shaft Sleeve Stroke mm	Jaw Stroke mm	Maximum Tensile Force KN	Maximum Clamping Force KN	Highest Rotation Speed r.p.m	Shaft Sleeve Stroke mm	Net Weight kg	Matching Cylinder Model
IP06-K3	12.2	8.88	14.7	24.5	5000	70-150	13	Th105
IP08-K3	12.2	8.88	24.5	44.1	4500	90-200	24	Th125
IP10-K3	18.2	13.12	34.3	58.8	4000	100-240	41	Th125
IP12-K3	18.2	13.12	44.1	73.5	3500	110-290	70	Th150
IP15-K3	22.2	16.2	53.9	93.1	1500	180-370	125	Th150

3 BH SERIES PRECISION OUTSIDE DRAW-DOWN CHUCK



PRODUCT ADVANTAGES



Ultra-high Rigidity

The rear end provides the strong bearing, and the rigidity is further improved than that of ordinary diagonal chucks.



Self-Lubricating

The guide post has self-lubricating structure, which not only prolongs the service life but also ensures the accuracy.



Quick Die Change

The patented fixture fixing scheme for pipe fitting industry is convenient for die change.
Patent Number: CN202121620412.7



Good Sealing

It has good sealing, which can effectively prevent foreign matters and cutting fluid from entering the chuck.



High Precision

The anti-rotation mechanism around the guide post is added, which has high precision.



Intelligence

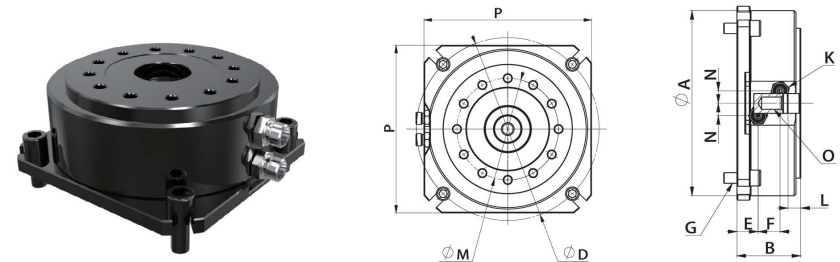
It can provide central water outlet and air tightness detection at the same time, which is convenient for automatic implementation.

PRODUCT SIZE TABLE

Specifications	A mm	B mm	C mm	D mm	E mm	H mm	K mm	Lmin mm	Lmax mm	N mm	O mm	Pmin mm	Pmax mm	Qmin mm	Qmax mm
BH04-K2	108	102	96	5	30	20	32	22	25	34	M22X2	3	13	4	7
BH05-K2	138	112	118	5	35	20	36	22	25	42	M24X2	4	14	4.5	7.5
BH06-K2	168	120	140	5	40	30	38	31.5	44.5	57.5	M28X1.5	4	17	4.5	8
BH08-K2	210	160	170	5	48	40	44	62.45	75.45	63	M33X2	7	20	8	15
BH10-K2	254	205	220	5	55	50	46	70	88	80	M36X2	9	27	10	20
BH12-K2	305	228	220	5	60	60	50	80	98	90	M36X2	9	27	10	20

Models/Specifications	Shaft Sleeve Stroke mm	Jaw Stroke mm	Maximum Tensile Force KN	Maximum Clamping Force KN	Highest Rotation Speed r.p.m	Shaft Sleeve Stroke mm	Net Weight kg	Matching Cylinder Model
BH04-K2	10	6	14.7	22	5000	0-35	5	TH105
BH05-K2	10	7	24.5	25	5000	0-48	9	TH125
BH06-K2	13	8.5	34.3	28	4500	0-60	12	TH125
BH08-K2	13	8.5	44.1	32	4000	0-80	24	TH150
BH10-K2	18	12	49	35	3600	0-100	45	TH150
BH12-K2	18	15	49	40	2500	0-120	105	TH150

4 VBO SERIES STATIONARY CYLINDER



PRODUCT ADVANTAGES



Modularization

It can combine with the draw-down chuck to realize the application of chuck in machining centers.



Convenient Installation

It is equipped with installation holes, which is convenient to install in machining centers, milling machines and drilling machines.



Diversification

Both external clamping draw-down chucks and internal expansion draw-down chucks can be stacked.



Wide Adaptability

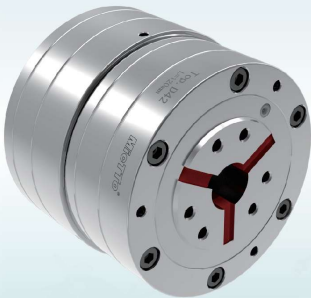
Different oil holes are selected for different application scenarios, and the adaptability is wide.

PRODUCT SIZE TABLE

Specifications	A mm	B mm	D mm	E mm	F mm	G mm	K mm	Lmin mm	Lmax mm	M mm	N mm	O mm	P mm
VBO125	166	68	190	20	25	M12	M16	1.5	13.5	104.8	-	M16	170
VBO165	210	72.5	240	24	25	M12	M16	2.5	14.5	133.4	14	M16	220
VBO200	254	80	280	27	30	M12	M16	3.5	21.5	171.4	16	M16	260

Models/Specifications	Piston Stroke mm	Piston Diameter mm	Maximum Tensile Force KN	Maximum Clamping Force KN	Shaft Sleeve Stroke mm	Shaft Sleeve Stroke mm
VBO125	13	125	14.7	24.5	30-160	11.5
VBO165	13	165	24.5	44.1	40-210	17.7
VBO200	20	200	34.3	58.3	5-250	28.3

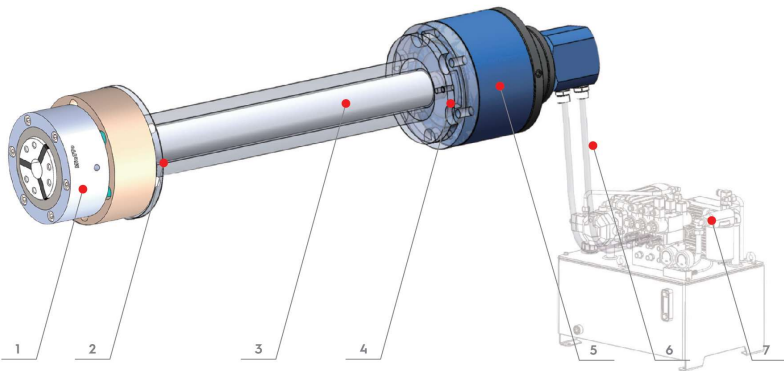
PRECISION RUBBER COLLET CHUCK



CLASSIC CASE

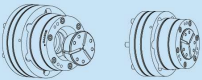
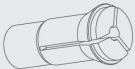
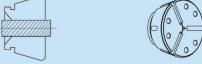
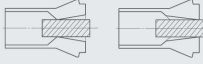
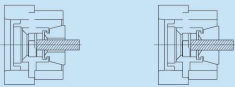
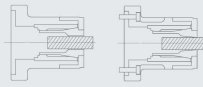


SYSTEM COMPOSITION

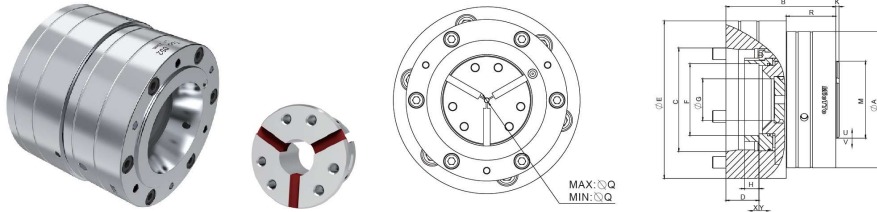


NO.	NAME	FUNCTION DESCRIPTION
1	Rubber Collect Chuck	The clamping of the workpiece can be realized.
2	Front Flange	It can be used to connect the nose of the spindle and the diagonal chuck.
3	Pulling Rod	The cylinder tension can be transmitted to the chuck end.
4	Tail Flange	It can be used to connect the oil separator with the tail of the machine tool.
5	Rotary Cylinder	It can provide the driving tension for chuck clamping.
6	Oil Pipe Assembly	The oil pressure of the hydraulic station can be transmitted to the oil cylinder.
7	Hydraulic Station (Optional)	It can provide power for chuck clamping.

PRODUCT ADVANTAGES

ADVANTAGES	MICTTO	OTHER BRANDS
One-Minute Mold Changing	✓ It can quickly disassembled by special tools. 	✗ The tail thread is screwed in, which is troublesome to install. 
U-level Machining Accuracy	✓ It uses three-petal or six-petal split structure, among which each petal can be fully attached when clamping.  ✓ It uses the self-centering shrinkage of inner cone, without clamping clearance. 	✗ The front part is cut, but the root part is integral, and the changes at the front and rear ends are inconsistent.  ✗ The clamping claw moves radially to realize clamping, and there is a sliding clearance between the T-block and the cylinder body. 
Suitability For Heavy Cutting	✓ The inner cone is expanded and clamped, and the envelope surface can be almost rounded. 	✗ Ordinary chucks are clamped by sliding T-blocks and wrapped on three sides. 
Larger Clamping Clearance	✓ The unilateral elasticity of three-petal or six-petal rubber refining chuck can reach 0.5 mm. 	✗ It is an integral metal collect fixture, with single side clearance of 0.1-0.2 mm. 

1 TD SERIES OUTSIDE-RUBBER COLLET CHUCK-DEADLENGTH TYPE



During the clamping process of the chuck, the rubber chuck does not move axially, making it suitable for clamping products with shorter protrusion positions. It is commonly used for processing on the auxiliary spindle of equipment.

PRODUCT ADVANTAGES

RUBBER COLLECT CHUCK



Parallel Clamping

It uses the forward-pushing parallel clamping with large locking force and convenient adjustment of locking force.



Quick Die Change

It takes less than 10s to change the chuck head with different hole diameters, and the operation is simple and quick.



Effective Chip Prevention

It has both the rigidity of metal and the elasticity of rubber, and the clearance filling can effectively prevent impurities from entering.



Full Channel

It uses the full channel design, which is more suitable for automatic rod processing after removing the stop block.



Standard Seam Allowance

It uses the standard universal interface of the machine tool, which is easy to install.



Air Detection

It can match with air tightness detection function.



Ultra-High Accuracy

The radial runout accuracy is within 0.01mm (due to the model difference).

RUBBER COLLECT



Composite Design

It uses the petal split design and rubber bonding, with both rigidity and elasticity. Patent Number: CN202121657714.1.



Long Service Life

The highest hardness of the petal split metal blocks can reach HRC58, which makes that the service life is longer.



Good Elasticity

Due to the excellent elasticity of rubber, the central clamping clearance can be up to 0.5mm on one side.



High Precision

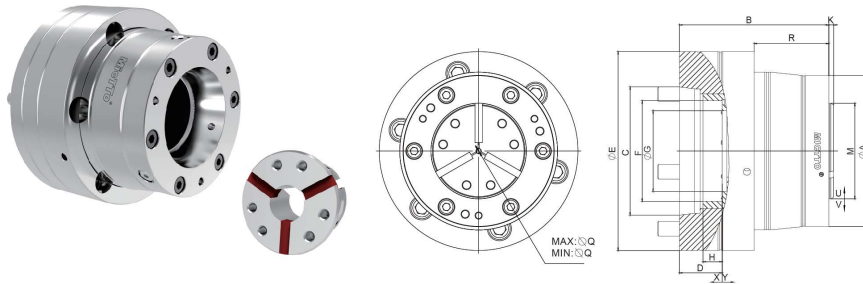
The locking force of the chuck can be distributed on the workpiece in parallel and evenly, and the clamping precision is high.

PRODUCT SIZE TABLE

Models/ Dimensions	A mm	B mm	D mm	E mm	F mm	G mm	H mm	K mm	M mm	Q mm	R mm	U mm	V mm	X mm	Y mm	Weight kg
TD30.A4	100	120	34.5	145	M25X1.5	33	15	6	58	4-32	60	0.6	25	3	3	10
TD32.A5																
TD42.A5	140	120	35	145	M76X1.5	43	15.5	9	80	4-42	61.5	0.6	2	25	25	13.5
TD42.A6				162												13.5
TD52.A5	140	120	35	145	M76X1.5	53	15.5	4	80	4-52	61.5	0.6	2	25	25	13
TD52.A6				162												
TD65.A5				165												15.5
TD65.A6	160	135	39.5	165	M90X1.5	66	18	9	99.5	4-65	71.5	0.6	2	25	25	15
TD65.A8				210												19
TD80.A6	175	145	44.5	179	M92X1.5	81	20	4	115	5-80	71.5	0.6	2	25	25	19
TD80.A8				210												23
TD100.A6	215	175	47.5	220	M92X1.5	84-101	21-22.5	/	144.5	16-100	94	2	3	5	5	35
TD100.A8			46.5		M125X1.5											34

Models/ Specifications	Spindle Connection C	Accuracy mm	Maximum Radial Clamping Force KN	Maximum Axial Clamping Force KN	Maximum Speed r.p.m	Tolerance Range mm
TD32	A2-4	0.02	70	25	8000	±0.3
	A2-5					
TD42	A2-5	0.02	80	35	7000	±0.5
	A2-6					
TD52	A2-5	0.02	94	40	7000	±0.5
	A2-6					
TD65	A2-5	0.02	105	45	6000	±0.5
	A2-6					
	A2-8					
TD80	A2-6	0.02	115	50	5500	±0.5
	A2-8					
TD100	A2-6	0.02	150	65	5000	±1.0
	A2-8					

2 BD SERIES OUTSIDE-COLLET CHUCK PULL BACK TYPE



PRODUCT ADVANTAGES

RUBBER COLLET CHUCK



Effective Chip Prevention

It has both the rigidity of metal and the elasticity of rubber, and the clearance filling can effectively prevent impurities from entering.



Quick Die Change

It takes less than 10s to change the chuck head with different hole diameters, and the operation is simple and quick.



Standard Seam Allowance

It uses the standard universal interface of the machine tool, which is easy to install.



Full Channel

It uses the full channel design, which is more suitable for automatic rod processing after removing the stop block.



Ultra-High Accuracy

The radial runout accuracy is within 0.01mm (due to the model difference).



Air Detection

It can match with air tightness detection function.

RUBBER COLLECT



Composite Design

It uses the petal split design and rubber bonding, with both rigidity and elasticity.
Patent Number: CN202121657714.1.



Long Service Life

The highest hardness of the petal split metal blocks can reach HRC58, which makes that the service life is longer.



Good Elasticity

Due to the excellent elasticity of rubber, the central clamping clearance can be up to 0.5mm on one side.



High Precision

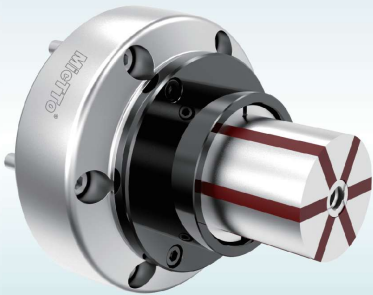
The locking force of the chuck can be distributed on the workpiece in parallel and evenly, and the clamping precision is high.

PRODUCT SIZE TABLE

Models/ Dimensions	A mm	B mm	D mm	E mm	F mm	G mm	H mm	K mm	M mm	Q mm	R mm	U mm	V mm	X mm	Y mm	Weight kg
BD32 A4	75	117	34.5	115	M52X1.5	33	18	6	58	4-32	55	1	0.6	2.5	3	6
BD32 A5				135	M70X1.5											7
BD42 A5	125	124	32.5	144	M52X1.5	43	16	9	80	4-42	61	1	0.6	2	2.5	11
BD42 A4			35.5	144	M72X1.5											10
BD42 A5			35.5	165	M85X1.5											12
BD52 A5	125	122	35.5	144	M72X1.5	53	17	4	80	4-52	59	1	0.6	2	2.5	10
BD52 A6				165	M85X1.5											12
BD65 A5	125	131	34	144	M72X1.5	66	16	9	99.5	4-65	66	1	0.6	2	2.5	13.5
BD65 A6		130	37	165	M105X1.5											13
BD65 A8		131	39	160	M105X1.5											18.5
BD80 A6	125	135	41.5	165	M102X1.5	81	18	4	115	5-80	68	1	0.6	2	2.5	16
BD80 A8				210												21
BD100 A	125	140	46.5	180	M135X1.5	101	18	144.5	16-100	78.5	1.5	2	3	5	5	33.5
BD100 A8		155	44.5	210												33
BD100 A11		159	48.5	235												43

Models/ Specifications	Spindle Connection C	Accuracy mm	Maximum Radial Clamping Force KN	Maximum Axial Clamping Force KN	Maximum Speed r.p.m	Tolerance Range mm
BD32	A2-4	0.01	70	25	8000	±0.3
	A2-5					
BD42	A2-4	0.01	80	35	7000	±0.5
	A2-6					
BD52	A2-5	0.01	94	40	7000	±0.5
	A2-6					
BD65	A2-5	0.01	105	45	6000	±0.5
	A2-8					
BD80	A2-6	0.01	115	50	5500	±0.5
	A2-8					
BD100	A2-6	0.015	150	65	5000	±1.0
	A2-8					
	A2-11					

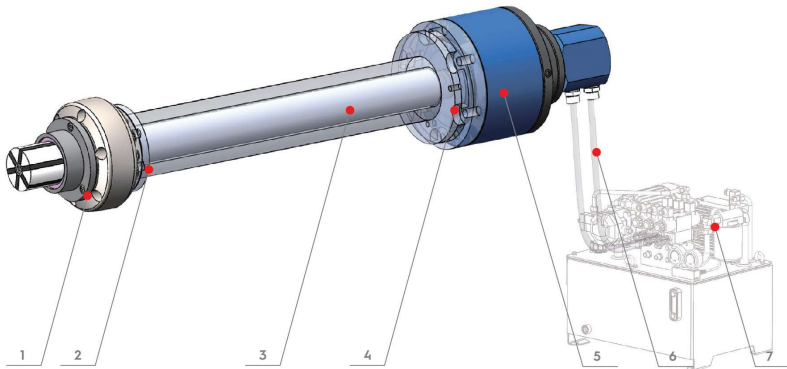
PRECISION RUBBER MANDREL CHUCK



CLASSIC CASE

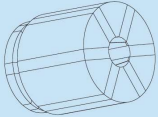
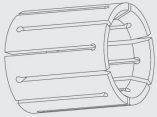
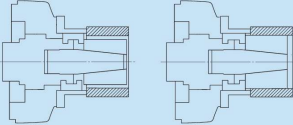
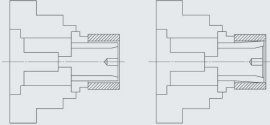
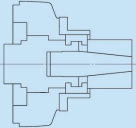
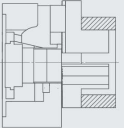


SYSTEM COMPOSITION

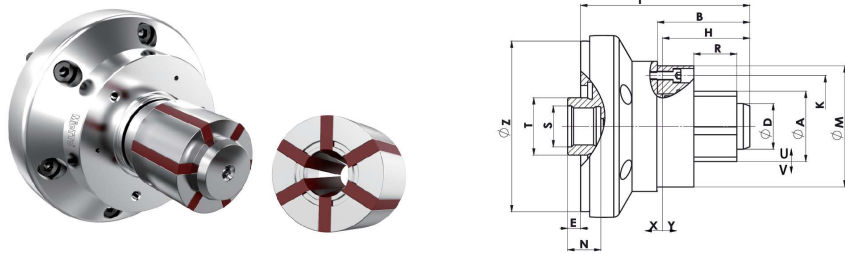


NO.	NAME	FUNCTION DESCRIPTION
1	Rubber Mandrel Chuck	The clamping of the workpiece can be realized.
2	Front Flange	It can be used to connect the nose of the spindle and the diagonal chuck.
3	Pulling Rod	The cylinder tension can be transmitted to the chuck end.
4	Tail Flange	It can be used to connect the oil separator with the tail of the machine tool.
5	Rotary Cylinder	It can provide the driving tension for chuck clamping.
6	Oil Pipe Assembly	The oil pressure of the hydraulic station can be transmitted to the oil cylinder.
7	Hydraulic Station (Optional)	It can provide power for chuck clamping.

PRODUCT ADVANTAGES

ADVANTAGES	MICTTO	OTHER BRANDS
μ-level Machining Accuracy	✓ It uses the six-petal split structure, among which each petal can be fully attached when it is expanded. 	✗ The expansion head is divided, and the cutting position changes greatly when it is expanded, but the whole position changes little. 
Larger Internal Expansion Clearance	✓ The unilateral elasticity of the six-petal rubber refining expansion head can reach 0.5 mm. 	✗ It equipped with the integral expansion head of metal collect, with unilateral clearance of 0.1-0.2 mm. 
Better Rigidity Than That of Ordinary Chunks	✓ After the workpiece is expanded, the center position is supported by an inner conical surface. 	✗ The ordinary chuck is cantilever structure without support when it expands inward. 

1 AR SERIES INSIDE-COLLET CHUCK-WITH DRAW BOLT



The front end of the chuck has a bolt structure, which is suitable for hole expanding processing of through-hole products.

PRODUCT ADVANTAGES

INTERNAL MANDREL CHUCK	
 Parallel Expansion It uses the rear-pulling parallel expansion, has large locking force and convenient adjustment of locking force.	 Effective Chip Prevention It has both the rigidity of metal and the elasticity of rubber, and the clearance filling can effectively prevent impurities from entering.
 Standard Seam Allowance It uses the standard universal interface of the machine tool, which is easy to install.	 Ultra-High Accuracy The radial runout accuracy is within 0.01mm (due to the model difference) .

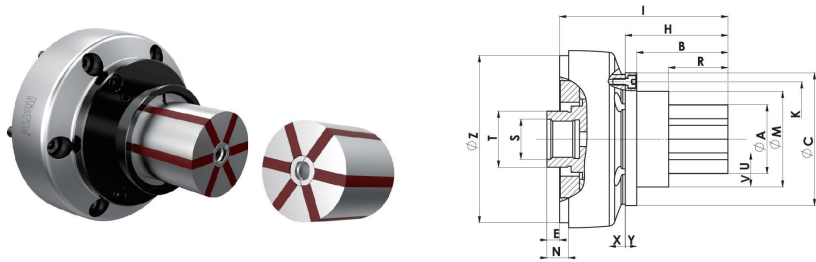
 Air Detection It can match with air tightness detection function.

RUBBER EXPANSION SLEEVE	
 Composite Design It uses the petal split design and rubber bonding, with both rigidity and elasticity. Patent Number: CN202121657714.1.	 Long Service Life The highest hardness of the petal split metal blocks can reach HRC58, which makes that the service life is longer.
 Good Elasticity Due to the excellent elasticity of rubber, the central clamping clearance can be up to 0.5mm on one side.	 High Precision The locking force of the chuck can be distributed on the workpiece in parallel and evenly, and the clamping precision is high.

Models/Dimensions	AR00	AR01	AR02	AR03	AR04
A mm	20-28	26-38	36-54	50-80	70-120
B mm	40	51	71	78	95
D mm	19	25	35	49	68
E mm			10		
H mm	32.5	47.5	61	68	80
I mm	100	110	130	140	155
K mm	φ50 3xM6	φ55 3xM6	φ78 3xM6	φ80 3xM6	φ90 3xM6
M mm	65	69	93	96	100
N mm	19		19		
R mm	22	26	43	49	59
S mm	M30x1.5				
T mm	M44x1.5				
U mm		0.25		0.35	0.4
V mm		0.25		0.35	0.4
X mm		1.2		2	2.5
Y mm	2		2.5		3

Models/Dimensions	AR00	AR01	AR02	AR03	AR04
Accuracy mm	0.01				
Maximum radial clamping force KN	42		85	105	150
Maximum axial clamping force KN	10		20	25	35
Maximum speed r.p.m	7000			6000	
Weight kg	5		5.5	6	7

2 BR SERIES INSIDE-COLLET CHUCK-WITHOUT DRAW BOLT



The front end of the chuck without a bolt structure, which is suitable for hole expanding processing of blind hole products.

PRODUCT ADVANTAGES

INTERNAL MANDREL CHUCK



Parallel Expansion

It uses the rear-pulling parallel expansion, has large locking force and convenient adjustment of locking force.



Effective Chip Prevention

It has both the rigidity of metal and the elasticity of rubber, and the clearance filling can effectively prevent impurities from entering.



Standard Seam Allowance

It uses the standard universal interface of the machine tool, which is easy to install.



Ultra-High Accuracy

The radial runout accuracy is within 0.01mm (due to the model difference).



Air Detection

It can match with air tightness detection function.

RUBBER EXPANSION SLEEVE



Composite Design

It uses the petal split design and rubber bonding, with both rigidity and elasticity. Patent Number: CN202121657714.1.



Long Service Life

The highest hardness of the petal split metal blocks can reach HRC58, which makes that the service life is longer.



Good Elasticity

Due to the excellent elasticity of rubber, the central clamping clearance can be up to 0.5mm on one side.



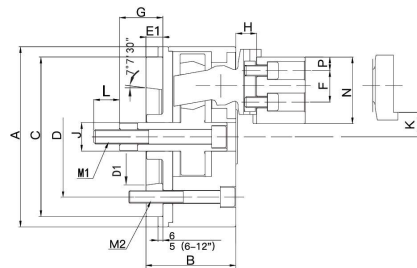
High Precision

The locking force of the chuck can be distributed on the workpiece in parallel and evenly, and the clamping precision is high.

Models /Dimensions	BRXXS	BRXS	BRS	BR00	BR01	BR02	BR03	BR04
A mm	8-13	13-18	16-21	20-28	26-38	36-54	50-80	70-100
B mm	36.5	36.5	38	44	47	62	66.5	77.5
C mm	65	65	70	90	90	104	120	138
H mm	45.5	45.5	47.5	58.5	64.5	80.5	87.5	97.5
I mm	93	95	97	108	114	132	140	150.5
K mm	3xM5	3xM5	3xM6	3xM6	3xM6	3xM6	3xM6	3xM6
M mm	41	42	45	54	62	76	105	124
R mm	8.2	14	15	21	25	40	44.5	52.5
U mm	0.2	0.25	0.25	0.25	0.25	0.25	0.35	0.4
V mm	0.2	0.25	0.25	0.25	0.25	0.25	0.35	0.4
X mm	1.5	1.5	1.5	1.5	1.5	1.5	2	2.5
Y mm	1.5	2	2	2	2	2.5	2.5	3
E mm	10							
N mm	19							
Smm	M30x1.5							
T mm	M44x1.5							
Z mm	131							

Models /Dimensions	BRXXS	BRXS	BRS	BR00	BR01	BR02	BR03	BR04
Accuracy mm	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum radial clamping force KN	42	42	42	42	42	85	105	150
Maximum axial clamping force KN	10	10	10	10	10	20	20	35
Maximum speed r.p.m	7000	7000	7000	7000	7000	7000	6000	6000
Weight kg	4.5	4.5	4.5	5	5	6.5	8	10

3-JAW PULL BALL LOCK CHUCK



PRODUCT ADVANTAGES



Suitable For Blanks

It is suitable for blanks of clamping forging and casting parts.



Self-Adaptation

The radial direction of the clamping claw is 5°, and the axial direction is not more than 10°, to adapt to the product surface.



Internal And External Use

The same chuck can be clamped with both outer diameter and inner diameter.



Air Detection

It can match with air tightness detection function.



Ultra-High Accuracy

It has special rubber sealing mechanism, which can effectively prevent impurities from entering.



Non-standard Claw

Non-standard claw block can be customized with hard alloy teeth.

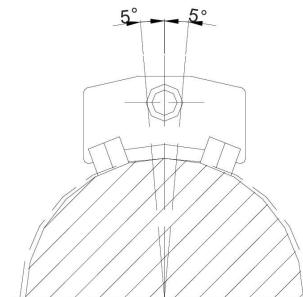
PRODUCT SIZE TABLE

Models/ Specifications	A mm	B mm	C mm	D mm	D ₁ mm	E ₁ mm	F mm	Gmin mm	Gmax mm	H mm	J mm	K mm	L mm	M1 mm	M2 mm	N mm	P mm	Q mm	T mm
UBL06-K3	162	77	140	104.8	82.56	15	30	49	60.3	19.3	32	22.2	36	M16	3-M10	67.5	15	51	38
UBL08-K3	200	98	170	133.4	106.38	17	34	49	63.3	23.3	32	25.4	36	M16	3-M12	74	15	57	44.5
UBL10-K3	254	106	220	171.4	139.72	18	45	49	66.5	29.1	42	30.3	36	M20	3-M16	89.5	19	70	57
UBL12-K3	300	106	220	171.4	139.72	18	45	49	66.5	29.1	42	50.8	36	M20	3-M16	108.5	19	70	57

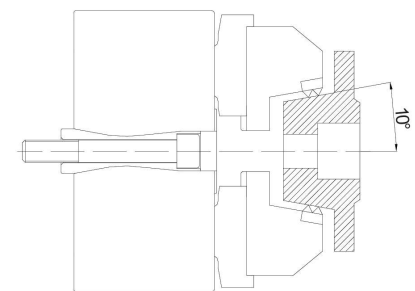
Models/ Specifications	Plunger Stroke mm	Jaw Stroke (Dia.) mm	Max. Pull Force KN	Max. Gripping Force KN	Max. Speed r/min	Gripping Range mm		Moment of Inertial kg.m	Weight kg	Matching Cylinder	Max. Pressure Mpa(kgf/cm²)
						Outside Dia	Inside Dia				
UBL06-K3	11.3	7.9	26.5	79.4	4000	12.7-120	70-152	0.15	18	TH100	2.4(24)
UBL08-K3	14.3	9.5	35.3	105.8	3500	16-152	76-203	0.48	27	TH100	3.1(31)
UBL10-K3	17.5	12.7	44.1	132.3	3000	50-203	85-235	1.23	45	TH150	2.8(28)
UBL12-K3	17.5	12.7	44.1	132.3	2500	63-241	127-305	2.42	67.5	TH150	2.8(28)

SPECIAL FEATURES

Deviation adjustment of 5 degrees around the outer dianeter, can firmly clamp all kinds of workpiece



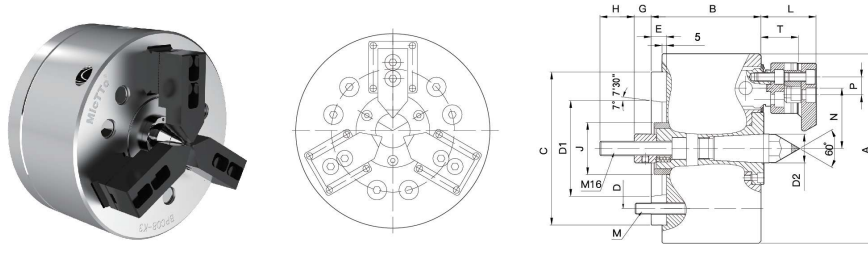
Radial and backward pull motion, can firmly holding the biggest Angle of 10° of casting and forging



CLASSIC CASE



LEVER COMPENSATION CHUCK



PRODUCT ADVANTAGES



Top Centering

The center top is the only benchmark for product processing.



Flange Installation

It uses the conventional flange stop installation, which can be interchanged with ordinary chucks.



Floating Clamping

The claw pulls back the workpiece and compensates for clamping to ensure the unique positioning reference.



High Accuracy

The positioning accuracy can reach 0.005mm (please note when ordering) .



Large Compensation Amount

The maximum compensation amount of the center can reach 5 mm.



Customized Accessories

The center top can be customized with hard alloy models.

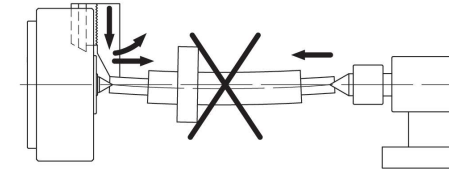
PRODUCT SIZE TABLE

Models/ Specifications	A mm	B mm	C (H6) mm	D mm	D1 mm	E mm	G mm	H mm	J mm	L mm	M mm	N mm	P mm	T mm
BPC06-k3 A5	168	116	104.8	82.56	24	15	4-20	38	50	52	M10x120	55	14	34
BPC08-k3 A6	210	127	133.4	106.38	32	17	9-29	38	58	61	M12x125	67	20	41.5

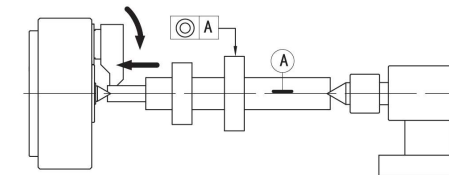
Models/ Specifications	Plunger Stroke mm	Jaw Stroke (Dia.) mm	Max. Pull Force KN (kgf)	Max. Gripping Force KN	Max.Speed r/min	Gripping Range mm	Corrected the Amount mm(Dia)	Moment of Inertial kg.m	Weight kg	Matching Cylinder	Max.pressure Mpa(kgf/cm²)
BPC06-k3 A5	16	13	14.7 (1500)	25.0	3500	6-35	5	0.2	13	TH100	2.1(21)
BPC08-k3 A6	20	18	19.6 (2000)	34.3	3000	16-65	6	0.5	22	TH100	2.8(28)

BPC06-K3 Type Use either spring center,when clamping the workpiece,it is based on the center , The workpiece can also be pulled to the position plane,For easy axial position cfrmaton.

SPECIAL FEATURES



When the chuck without rear-pulling and compensation clamps the workpiece, the jaw tilts and pushes the shaft away from the center. If the force of the tailstock cannot overcome this tilted force, it will lead to the bending of the workpiece.

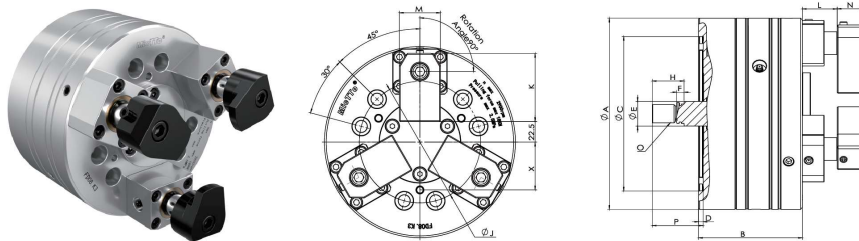


The tailstock only needs to support the force of the workpiece, and the chuck pulls the workpiece to the center top, so that the workpiece does not bend, the processed shaft is very coaxial. When the outer diameter of the shaft is different from the central hole, the compensation function of the jaw is highlighted.

CLASSIC CASE



FINGER CHUCK



PRODUCT ADVANTAGES



Axial Clamping

Clamping in axial, without the radial stress, which is suitable for clamping thin-walled parts and special shaped parts.



Compensation Mechanism

It is a built-in clamping compensation mechanism, which can automatically adjust when clamping irregular end-face workpieces.



Large Rotation Angle

The increased rotation angle can increase the clamping space of the manipulator.



Intelligence

The air detection device or central water outlet can be superimposed.

PRODUCT SIZE TABLE

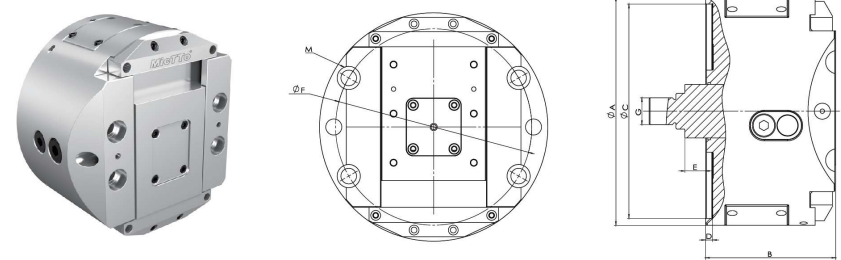
Models/ Specifications	A mm	B mm	C mm	D mm	E mm	F mm	H mm	L mm	N mm	O mm	P mm
FD08-K3	210	110	170	5	30	8	35	38.3-58.3	30	M20X2.5	56-76
FD10-K3	254	120	220	5	30	8	35	38.3-58.3	30	M20X2.5	56-76

Models/ Specifications	Jaw Rotation Stroke mm	Jaw Up And Down Stroke mm	Jaw Compensation mm	Max. Gripping Force KN	Maximum Speed r.p.m	Net Weight kg
FD-K3-08	12	8	2	21	2900	28
FD-K3-10	12	8	2	26	2400	37

CLASSIC CASE



ECCENTRIC CHUCK



PRODUCT ADVANTAGES



Double-axis Machining

It uses the once clamping to complete the machining of two parallel axes.



Various Clamping

Manual clamping can be superimposed according to products in diversities.



Adjustable Position

The eccentric distance can be adjusted within the maximum translation distance.



High Accuracy

The repeated positioning accuracy is 0.005mm, and the positioning accuracy is within 0.02 mm.



Counterweight Compensation

It is a built-in reverse counterweight mechanism, which can realize counterweight compensation during translation.



Dynamic Translation

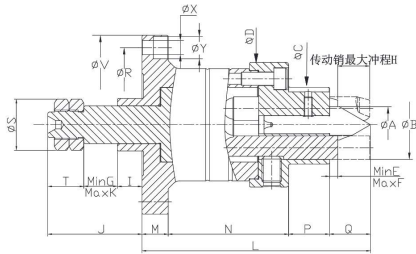
Position translation can be realized under the condition that the main shaft of the equipment is not stopped.

PRODUCT SIZE TABLE

Models/ Specifications	A mm	B mm	C mm	D mm	Emin mm	Emax mm	F mm	G mm	M mm
Py08	203	125	170	5	10	35	133.4	M30	12
Py10	256	150	220	5	10	45	171.4	M30	16
Py12	305	175	220	5	10	55	171.4	M30	16

Models/Specifications	Translation Stroke mm	Rod Stroke mm	Maximum Speed r.p.m	Shaft Sleeve Stroke mm	Net Weight kg
PY08	25	25	1500	0-35	30
PY10	35	35	1200	0-48	49.6
PY12	45	45	1000	0-60	68

HYDRAULIC FACE DRIVER



PRODUCT ADVANTAGES



Hydraulic Type

It is a hydraulic driver, and has the adjustable driving force, which has more stable clamping.



Bevel Compensation

It is a built-in end-face compensation mechanism, which can automatically adjust the unevenness within 3 mm.



Good Universality

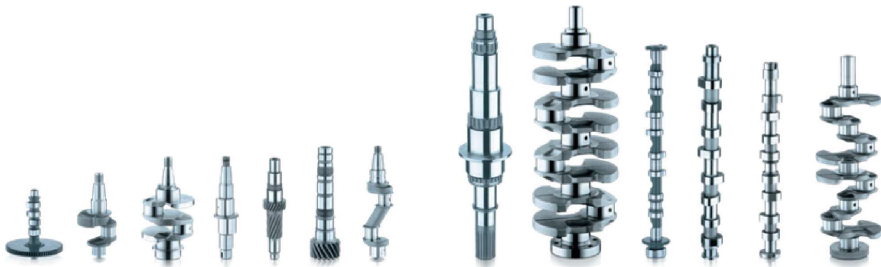
It has wide clamping range, which is suitable for a variety of products.



High Precision

It uses the dead center top positioning, which can be accurate to 0.005 mm.

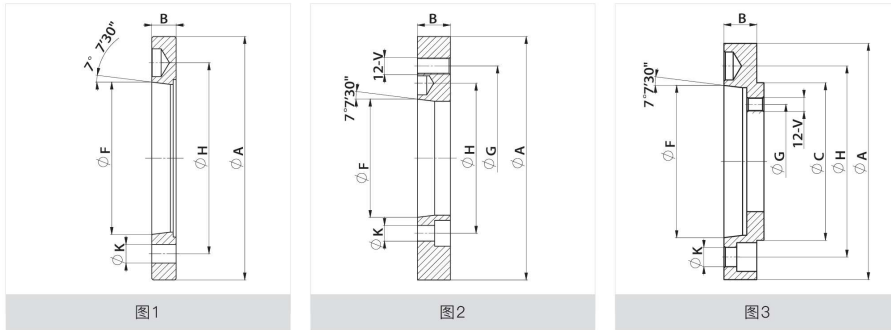
TYPICAL PRODUCTS



PRODUCT SIZE TABLE

Processing Scope mm		12-50	15-55	20-60	20-70	45-120	100-220	180-300
Left-Handed Model L		HD12/50L	HD15/55L	HD20/60L	HD20/70L	HD45/120L	HD100/220L	HD180/300L
Right-Handed Model R		HD12/50R	HD15/55R	HD20/60R	HD20/70R	HD45/120R	HD100/220R	HD180/300R
Fixed Tip Diameter φmm	A	18	18	18	22	20	32	35
Top End Distance mm	Q	19.5	19.5	19.5	25	28	36	49
Standard Section Diameter φmm	B	28.3	31.3	35.3	42.3	75	112.3	152.3
Maximum Stroke of Transmission Pin mm	H	19.5	19.5	19.5	19.5	19	26	26.5
Minimum end Face Distance of Transmission Pin mm	E	1	1	1	5	9	9	17.5
Maximum end Face Distance of Transmission Pin mm	F	20.5	20.5	20.5	24.5	28	35	46.5
Outer Diamet of end Cover End φmm	C	35	40	43	48	80	117.5	160
Outer Diameter of End Cover φmm	D	63	63	63	74	116	157	207
Front Length of end Drive mm	L	133.5	133.5	133.5	139.5	157	203	242
mm	N	68	68	68	73.5	77	104	133
mm	P	30	30	30	25	32	35	25
End Drive Tail Length mm	J	61	61	61	57.5	65	77	90.5
Minimum Distance of Handle mm	G	1	1	1	1	1	1	1
Maximum Distance of Handle mm	K	20.5	20.5	20.5	20.5	20	27	27.5
mm	T	22	22	22	22	25	25	38
mm	I	18.5	18.5	18.5	15	20	25	25
Outer Diameter of Body Con Necton φmm	V	109	109	109	109	153	195	245
Connection Thickness mm	M	16	16	16	16	20	28	35
Nut Outer Diameter φmm	S	31	31	31	31	34.6	34.6	53
Screw Spacing φmm	R	94	94	94	94	131	170	223
Screw Through Hole φmm	X	8.5	8.5	8.5	8.5	11	13	12
Screw Counterbore φmm	Y	13.5	13.5	13.5	13.5	17	19	19

1 STANDARD ACCESSORIES-FLANGE



SPECIFICATIONS AND DIMENSIONS-1

Models /Dimensions	Spindle Nose End	A mm	B mm	F mm	H mm	K mm
FFO5A4B	A4	110	15	63.513	82.6	12-11
FFO6A5C	A5	140	15	82.563	104.8	12-11
FFO8A6C	A6	170	17	106.375	133.4	12-14
FF10A8C	A8	220	18	139.719	171.4	12-18
FF15A11C	A11	300	22	196.869	235	12-22
FF20A15B	A15	380	27	285.775	330.2	12-25.5

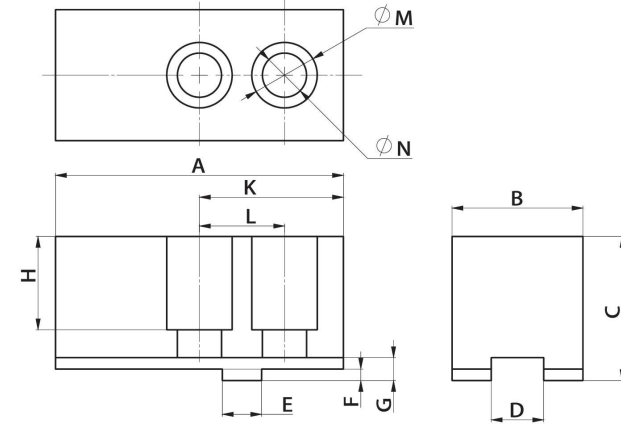
SPECIFICATIONS AND DIMENSIONS-2

Models /Dimensions	Spindle Nose End	A mm	B mm	F mm	H mm	K mm	G mm	V mm
FFO6A4B	A4	140	20	63.513	82.6	6-17	104.8	M10
FFO8A5B	A5	170	23	82.563	104.8	6-11	133.4	M12
FF10A5B	A5	220	25	82.563	104.8	6-11	171.4	M16
FF10A6B	A6	220	25	106.375	133.4	6-13.5	171.4	M16
FF15A6B	A6	300	33	106.375	133.4	6-13.5	235	M20
FF15A8B	A8	300	33	139.719	171.4	6-17.5	235	M20
FF20A11B	A11	380	41	196.869	235	6-22	330.2	M20
FF24A8B	A8	380	33	139.719	171.4	6-17.5	330.2	M24
FF28A20B	A20	720	40	412.775	463.6	12-26	647.6	M30

SPECIFICATIONS AND DIMENSIONS-3

Models /Dimensions	Spindle nose end	A mm	B mm	C mm	F mm	H mm	K mm	G mm	V mm
FFO5A5B	A5	128	32	110	82.563	104.8	6-11	82.6	M10
FF5A6B	A6	165	28	110	106.375	133.4	6-13.5	82.6	M10
FFO6A6B	A6	165	35	140	106.375	133.4	6-13.5	104.8	M10
FFO8A8B	A8	208	40	170	139.719	171.4	6-17.5	133.4	M12
FF12A11B	A11	278	50	220	196.869	235	6-22	171.4	M16
FF15A15B	A15	378	57	300	285.775	330.2	6-26	235	M20
FF24A20B	A20	520	58	380	412.775	463.6	6-26	330.2	M24

2 STANDARD ACCESSORIES-SOFT JAWS



SPECIFICATION AND DIMENSION TABLE OF SOFT JAW SERIES

Models /Dimensions	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	L mm	M mm	N mm
BPO6-K3	70	35	31	10	10	3	6	17	27	-	24	15.5
BPO8-K3	86	40	44	16	12	3.5	7	28.5	44	26	20	13.5
BP10-K3	105	50	46	18	15	3.5	7	30	55.5	32	24	15.5
BP12-K3	120	60	54.5	20	17	3.5	7	40	65	36	40	23
BP15-K3	165	80	68	24	20	4.5	9.5	40	80	40	48	23

Models /Dimensions	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	L mm	M mm	N mm	O mm
IPO6-K3	70	35	31	10	10	3	6	17	27	-	24	15.5	15.5
IPO8-K3	86	40	44	16	12	3.5	7	28.5	44	26	20	13.5	13.5
IP10-K3	105	50	46	18	15	3.5	7	30	55.5	32	24	15.5	15.5
IP12-K3	120	60	58	20	17	3.5	7	40	65	36	40	23	23
IP15-K3	165	80	68	24	20	4.5	9.5	40	80	40	48	23	23

Models /Dimensions	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	L mm	M mm	N mm
BPO6-K6	60	30	31	10	10	3	6	17	27	-	24	15.5
BPO8-K6	70	35	31	10	10	3	6	28.5	27	-	24	15.5
BP10-K6	86	40	44	16	12	3.5	7	30	44	26	20	13.5
BP12-K6	105	50	46	18	15	3.5	7	40	55.5	32	24	15.5
BP15-K6	120	60	54.5	20	17	3.5	7	40	65	36	40	23