



Work Gripper

COBOTEC **20** de ani
ENGINEERING de experienta



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**WORK
GRIPPER**

Work Gripper AS series

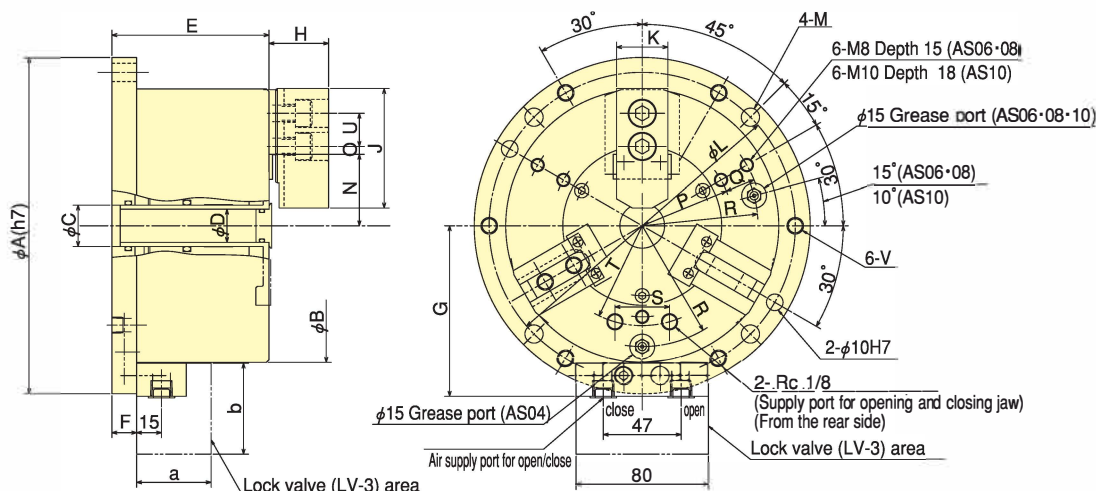
Pneumatically operated stationary chuck Can be used as an alternative to a fixture

- Small and lightweight design, with inbuilt air cylinder
- Easy mounting by air piping
- Hollow structure optimal for bar workpiece and air blow
- Standard Soft Jaw for Power Chuck is used
- Lock valve unit ensures constant and regular gripping force in all machining conditions

* CE correspondence



Dimensional Drawings



Dimensions

*The dimensions of a/b marked are the size of LV-3(Lock-valve).

Model	Dimensions	ϕA (h7)	ϕB	ϕC (H7)	ϕD	E	F	G	H	J	K	ϕL (± 0.2)	ϕM	N max.	N min.	O max.	O min.	P	Q	R
AS04		148	110	20H7	—	90	15	75.5	27	55	23	130	9	25.5	22.9	9.75	6.75	—	—	43
AS06		203	165	25H7	20	95	15	103	36	72	31	185	11	44.5	41.9	9.25	4.75	55	18	70
AS08		248	210	36H7	30	106	15	125.5	42	95	35	230	11	53	49.85	14.75	8.75	68	25	90
AS10		300	254	50H7	43	110	16	147.5	46	110	40	280	13	66	62.85	16	8.5	85	30	110

Model	Dimensions	S	T	U	V	a	b
AS04		33	34	14	M8	45	55
AS06		33	60.3	20	M10	45	55
AS08		33	80	25	M10	45	55
AS10		33	95	30	M12	45	55

Specifications

*Air Consumption = Under Pressure 0.6MPa Plunger Stroke per 10mm

Model	Specifications	Jaw Stroke (diameter) mm	Gripping Force (Pneumatic at 0.6MPa (0.6kgf/cm ²)) kN (kgf)	Net Weight (kg)	Max. air pressure MPa(kgf/cm ²)	Matching Soft top jaw	Gripping range(mm) Max.	Gripping range(mm) Min.	Air consumption (Nl)
AS04		5.2	7.5 (765)	7.3	0.7 (7.0)	SB04B1	110	10	0.40
AS06		5.2	21.0 (2140)	16.0	0.7 (7.0)	SB06B1	165	23	1.04
AS08		6.3	33.0 (3365)	27.7	0.7 (7.0)	SB08B1	210	30	1.81
AS10		6.3	48.0 (4895)	42.5	0.7 (7.0)	SB10A1	254	50	2.52



**WORK
GRIPPER**

Work Gripper (Multi-Plate)

AS-M-C series

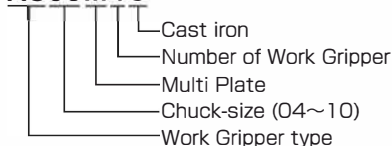
Multi-plate allows simultaneous machining with up to six grippers on one plate

- Lock valve unit (option) can be mounted
- Three jaws (AS type) and two jaws (AT type) can be combined freely

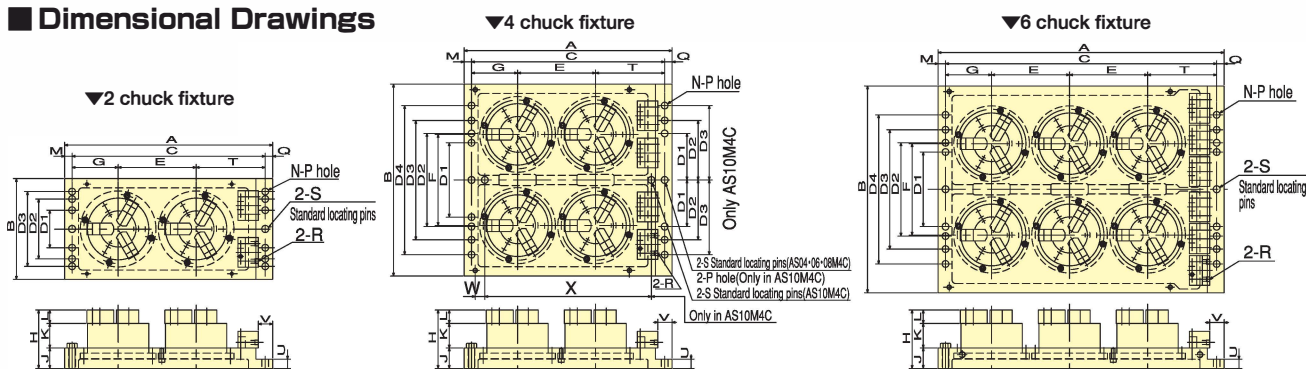


MODEL NUMBER EXPLANATION

AS06M4C



Dimensional Drawings



Dimensions

Model	Dimensions	spec	Matching Work Gripper	A	B	C	D1	D2	D3	D4	E	F	G	H	J
AS04M2C	2 chuck fixture	AS04	AS04	450	205	410	100	160	—	—	155	—	100	143	55
AS06M2C	2 chuck fixture	AS06	AS06	560	270	520	100	160	200	—	210	—	124	157	55
AS08M2C	2 chuck fixture	AS08	AS08	655	315	615	160	200	250	—	255	—	150	174	55
AS10M2C	2 chuck fixture	AS10	AS10	765	375	725	160	200	250	—	310	—	175	182	60
AS04M4C	4 chuck fixture	AS04	AS04	450	380	410	160	200	250	320	155	180	100	143	55
AS06M4C	4 chuck fixture	AS06	AS06	560	515	520	200	250	320	400	210	245	124	157	55
AS08M4C	4 chuck fixture	AS08	AS08	655	600	615	200	250	400	500	255	285	150	174	55
AS10M4C	4 chuck fixture	AS10	AS10	765	705	725	160	200	250	—	310	335	175	182	60
AS04M6C	6 chuck fixture	AS04	AS04	660	380	620	160	200	250	320	155	180	155	143	55
AS06M6C	6 chuck fixture	AS06	AS06	770	555	730	200	250	320	400	210	245	124	157	55

Model	Dimensions	K	L	M	N	φP	Q	R	φS	T	U	V	W	X	Net Weight (kg)
AS04M2C		61	27	20	8	18	20	Rc1/4	18	155	25	38.5	—	—	17.0
AS06M2C		66	36	20	12	18	20	Rc1/4	18	186	25	38.5	—	—	26.0
AS08M2C		77	42	20	12	18	20	Rc1/4	18	210	25	38.5	—	—	32.0
AS10M2C		76	46	20	12	18	20	Rc1/4	18	240	25	43.5	—	—	50.0
AS04M4C		61	27	20	16	18	20	Rc1/4	18	155	25	38.5	—	—	31.0
AS06M4C		66	36	20	16	18	20	Rc1/4	18	186	25	38.5	—	—	47.0
AS08M4C		77	42	20	16	18	20	Rc1/4	18	210	25	38.5	—	—	58.0
AS10M4C		76	46	20	14	18	20	Rc1/4	18	240	25	43.5	40	645	90.0
AS04M6C		61	27	20	16	18	20	Rc1/4	18	155	25	38.5	—	—	40.0
AS06M6C		66	36	20	16	18	20	Rc1/4	18	186	25	38.5	—	—	67.0



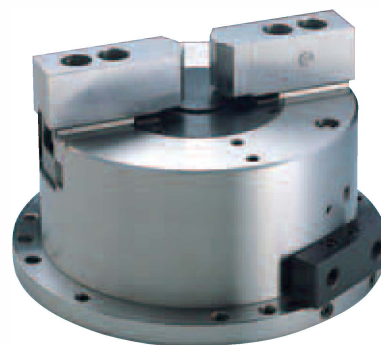
**WORK
GRIPPER**

2-Jaw Work Gripper AT series

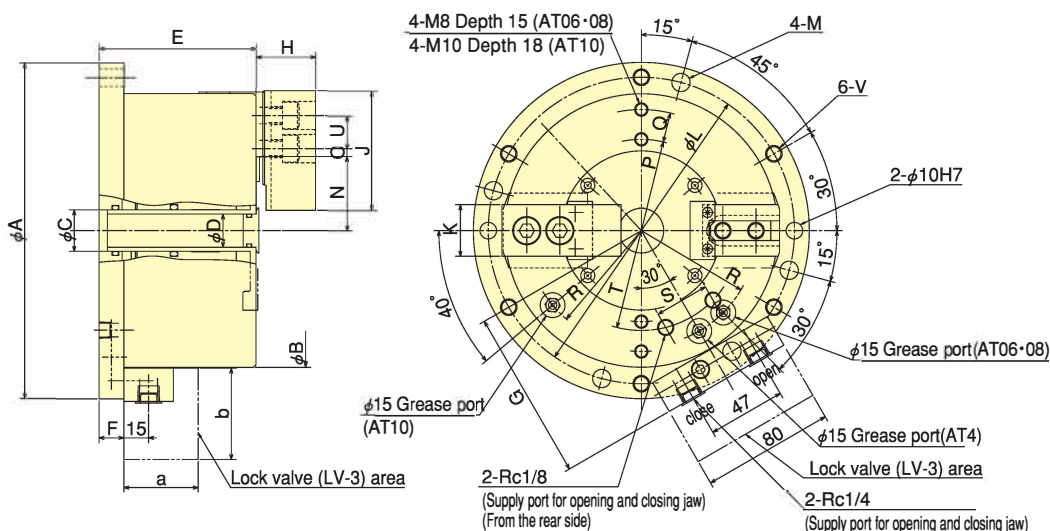
Secure gripping of all types of component
Can be used as an alternative to a fixture

- Small and lightweight design, with inbuilt air cylinder
- Easy mounting by air piping
- Hollow structure optimal for bar workpiece and air blow
- Standard Soft Jaw for Power Chuck is used
- Lock valve unit ensures constant and regular gripping force in all machining conditions

* CE correspondence



■ Dimensional Drawings



■ Dimensions

※The dimensions of W/X marked are the size of LV-3(Lock-valve).

Model	Dimensions	ϕA (h7)	ϕB	ϕC	ϕD	E	F	G	G	H	J	K	ϕL (± 0.2)	ϕM	N max.	N min.	O max.	O min.	P	Q
AT04		148	110	20H7	—	90	15	75.5	(110.5)	27	55	23	130	9	25.5	22.9	9.75	6.75	—	—
AT06		203	165	25H7	20	95	15	103	(138)	36	72	31	185	11	44.5	41.9	9.25	4.75	55	18
AT08		248	210	36H7	30	106	15	125.5	(160.5)	42	95	35	230	11	53	49.85	14.75	8.75	68	25
AT10		300	254	50H7	43	110	16	147.5	(182.5)	46	110	40	280	13	66	62.85	16	8.5	85	30

Model	Dimensions	R	S	T	U	V	a	b
AT04		43	33	34	14	M8	45	55
AT06		70	33	60.3	20	M10	45	55
AT08		90	33	80	25	M10	45	55
AT10		110	33	95	30	M12	45	55

■ Specifications

※Air Consumption = Under Pressure 0.6MPa Plunger Stroke per 10mm

Model	Specifications	Jaw Stroke (diameter) mm	Gripping Force (Pneumatic at 0.6MPa (0.6kgf/cm ²)) kN (kgf)	Net Weight (kg)	Max. air pressure MPa (kgf/cm ²)	Matching Soft top jaw	Gripping range (mm) Max.	Gripping range (mm) Min.	Air Consumption (Nl)
AT04		5.2	7.5 (765)	6.9	0.6 (6.0)	SB04A1T	110	10	0.40
AT06		5.2	21.0 (2140)	15.0	0.6 (6.0)	SB06A1T	165	23	1.04
AT08		6.3	33.0 (3365)	26.7	0.6 (6.0)	SB08A1T	210	30	1.81
AT10		6.3	48.0 (4895)	40.8	0.6 (6.0)	SB10A1T	254	50	2.52



**WORK
GRIPPER**

2-Jaw Work Gripper (Multi-Plate) ATM-C series

Multi-plate allows simultaneous machining with up to six grippers on one plate

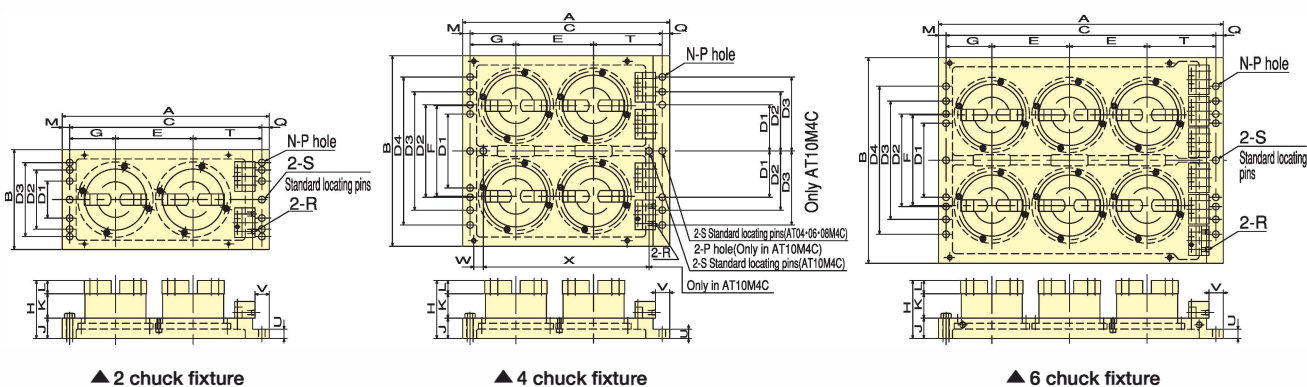
- Lock valve unit (option) can be mounted
- Three jaws (AS type) and two jaws (AT type) can be combined freely

MODEL NUMBER EXPLANATION

AT06M4C

- Cast iron
- Number of Work Gripper
- Multi Plate
- Chuck-size (04~10)
- Work Gripper type

Dimensional Drawings



Dimensions

Dimensions		spec	Matching Work Gripper	A	B	C	D1	D2	D3	D4	E	F	G	H	J
Model															
AT04M2C	2 chuck fixture	AT04	450	205	410	100	160	–	–	155	–	100	143	55	
AT06M2C	2 chuck fixture	AT06	560	270	520	100	160	200	–	210	–	124	157	55	
AT08M2C	2 chuck fixture	AT08	655	315	615	160	200	250	–	255	–	150	174	55	
AT10M2C	2 chuck fixture	AT10	765	375	725	160	200	250	–	310	–	175	182	60	
AT04M4C	4 chuck fixture	AT04	450	380	410	160	200	250	320	155	180	100	143	55	
AT06M4C	4 chuck fixture	AT06	560	515	520	200	250	320	400	210	245	124	157	55	
AT08M4C	4 chuck fixture	AT08	655	600	615	200	250	400	500	255	285	150	174	55	
AT10M4C	4 chuck fixture	AT10	765	705	725	160	200	250	–	310	335	175	182	60	
AT04M6C	6 chuck fixture	AT04	660	380	620	160	200	250	320	155	180	155	143	55	
AT06M6C	6 chuck fixture	AT06	770	555	730	200	250	320	400	210	245	124	157	55	

Model	Dimensions	K	L	M	N	φP	Q	R	φS	T	U	V	W	X	Net Weight (kg)
AT04M2C		61	27	20	8	18	20	Rc1/4	18	155	25	38.5	—	—	17.0
AT06M2C		66	36	20	12	18	20	Rc1/4	18	186	25	38.5	—	—	26.0
AT08M2C		77	42	20	12	18	20	Rc1/4	18	210	25	38.5	—	—	32.0
AT10M2C		76	46	20	12	18	20	Rc1/4	18	240	25	43.5	—	—	50.0
AT04M4C		61	27	20	16	18	20	Rc1/4	18	155	25	38.5	—	—	31.0
AT06M4C		66	36	20	16	18	20	Rc1/4	18	186	25	38.5	—	—	47.0
AT08M4C		77	42	20	16	18	20	Rc1/4	18	210	25	38.5	—	—	58.0
AT10M4C		76	46	20	14	18	20	Rc1/4	18	240	25	43.5	40	645	90.0
AT04M6C		61	27	20	16	18	20	Rc1/4	18	155	25	38.5	—	—	40.0
AT06M6C		66	36	20	16	18	20	Rc1/4	18	186	25	38.5	—	—	67.0



**WORK
GRIPPER**

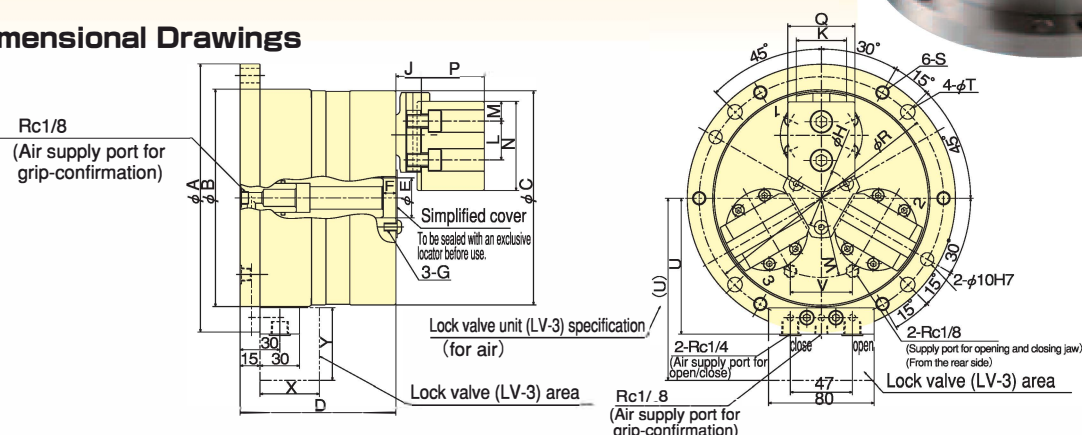
Power Wing Work Gripper PWS06

Suitable for 3 to 5-Axis machines
Cost reduction achieved by built-in Cylinder

- Stationary clamping by pull back the workpiece
Suitable for rough machining, OP-10 or OP-20 with reduced setup time.
- Cost reduction achieved by built-in Cylinder * No need to introduce separated Cylinder for Chuck.
- Available on the standard column of machine * Total height is reduced by built-in Cylinder.
- Available to be mounted on NC Rotary Table



Dimensional Drawings



Dimensions

*The dimensions of (U)/X/Y marked are the size of LV-3(Lock-valve).

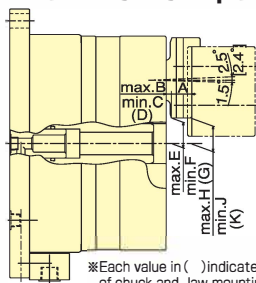
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	(U)	V	W	X	Y
Model	n7				+0.02 0	min	M6 Depth 12									(±0.2)								
PWS06	203	164.5	162	118	30.17	3.5		44	19.3	38.07	29.36	15	67.5	47.7	50.8	185	M10	11	103	138	47	60	45	55

Specifications

*Clamping force varies in clamping state for jaws and workpiece. *Air Consumption = Under Pressure 0.6MPa Plunger Stroke per 10mm

Dimensions	Plunger Stroke mm	Jaw Stroke (diameter) mm	Gripping Force kN (kgf)		Max. allowable pressure MPa (kgf/cm ²)		Min. allowable pressure MPa (kgf/cm ²)	Gripping range mm				Net Weight with Soft top jaws kg	Air Consumption (Nl)
			Pneumatic at 0.6MPa (6kgf/cm ²)	Hydraulic at 1.3MPa (13kgf/cm ²)	Pneumatic	Hydraulic		external φ	Internal φ	Max.	Min.		
Model													
PWS06	11.1	7.7	19 (1937)	53 (5404)	0.7 (7)	1.3 (13)	0.2 (2)	120	12.7	152	70	24	0.54

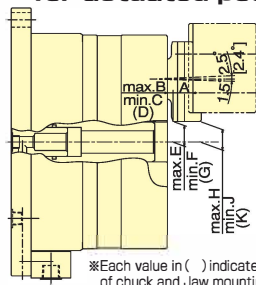
Dimensional Drawing for actuated position (External Gripping)



Dimensions for actuated position (External Gripping)

Dimensions	A	B	C	D	E	F	G	H	J	K
Model										
PWS06	15.50	4.96	3.05	3.80	20.06	18.89	19.33	20.70	18.48	19.33

Dimensional Drawing for actuated position (Internal Gripping)



Dimensions for actuated position (Internal Gripping)

Dimensions	A	B	C	D	E	F	G	H	J	K
Model										
PWS06	15.03	5.59	3.43	4.27	16.28	15.08	15.53	17.17	14.52	15.53



**WORK
GRIPPER**

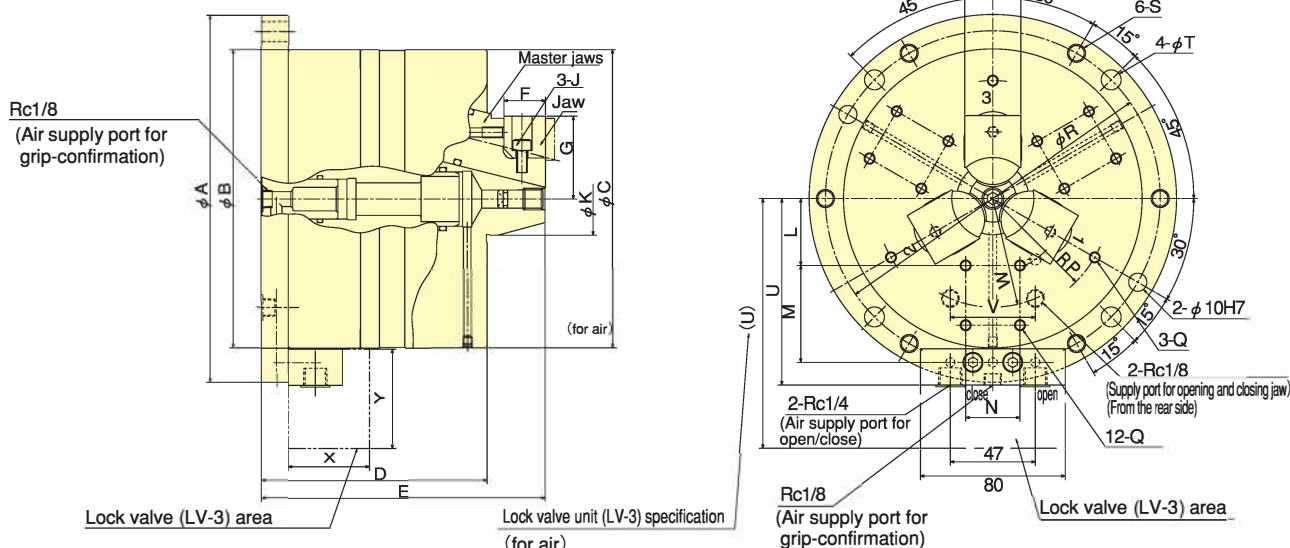
Internal Pull Lock Work Gripper PUES06

Suitable for 3 to 5-Axis machines
Cost reduction achieved by built-in Cylinder

- Pull back and clamping the inner diameter of workpiece
Suitable for finish machining with stationary machining accuracy.
- Cost reduction achieved by built-in Cylinder
No need to introduce separated Cylinder for Chuck.
- Available on the standard column of machine
Total height is reduced by built-in Cylinder.
- Available to be mounted on NC Rotary Table



Dimensional Drawings



Dimensions

※The dimensions of (U)/X/Y marked are the size of LV-3(Lock-valve).

Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	(U)	V	W	X	Y
Model	h7						max. min.									(±0.2)								
PUES06	203	165	165	125	157	23	45.7 44.5	31	M6	40	37	33	30	65	M6 Depth12	185	M10	11	103	138	47	60	45	55

Specifications

※Clamping force varies in clamping state for jaws and workpiece. ※Air Consumption = Under Pressure 0.6MPa Plunger Stroke per 10mm

Dimensions	Plunger Stroke mm	Jaw Stroke (diameter) mm	Gripping Force kN (kgf)		Max. allowable pressure MPa (kgf/cm ²)		Min. allowable pressure MPa (kgf/cm ²)		Gripping range mm			Net Weight with Soft top jaws kg	Air Consumption (N l)
Model			Pneumatic at 0.6MPa (6kgf/cm ²)	Hydraulic at 1.3MPa (13kgf/cm ²)	Pneumatic	Hydraulic			Standard jaws	Option jaws	Master jaws		
PUES06	10	4.8	20 (2039)	57 (5812)	0.7 (7)	1.3 (13)	0.2 (2)		φ70~φ89	φ89~φ105	φ44~φ70	21	0.54







**WORK
GRIPPER**

Stationary Scroll Chuck SC-S series

**Durable, reliable and versatile
Stationary scroll chuck**

- Available on multiplate for easy fixture mounting
- Compact designed
- Soft jaw can be machined to adapt to a wide range of machine workpieces
- Uses exclusive handle for clamping



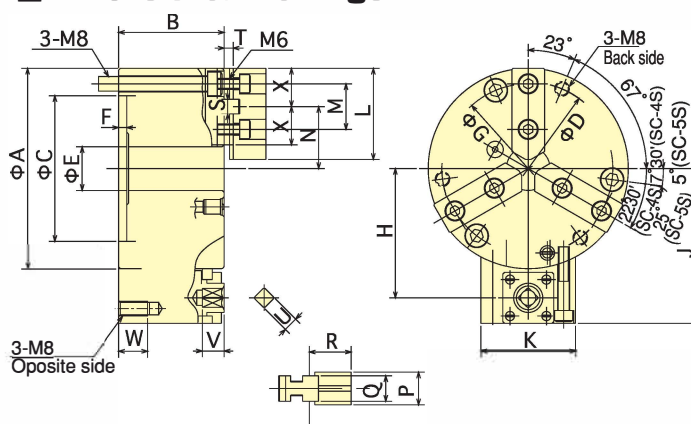
■ Dimensional Drawings



2 chuck fixture sample



4 chuck fixture sample



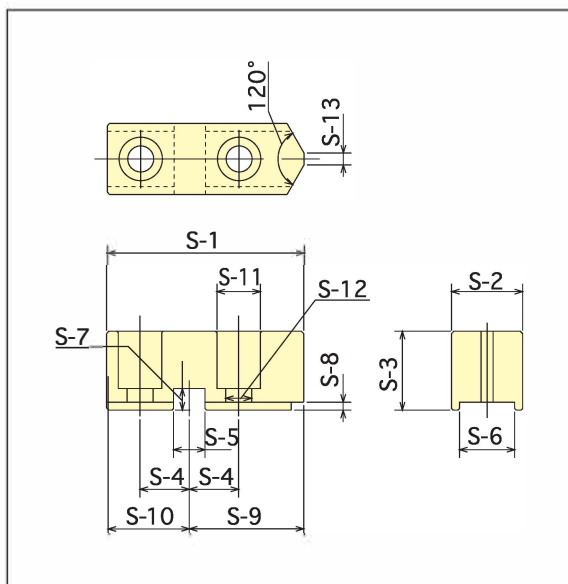
■ Specifications

Model	Specifications	Max. Gripping Force kN (kgf)	Allowable handle torque N · m (kgf · m)	Net Weight (kg)	Gripping range	
					External mm	Internal mm
SC-4S		9.6 (979)	27.5 (2.8)	4.0	3~95	29~84
SC-5S		12.0 (1224)	39.2 (4.0)	5.3	3~110	33~100

■ Dimensions

Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	Nmin	Nmax	P	Q	R	S	T	U	V	W	X
SC-4S	110	58	80	95	24	4.5	93	71	85	52	50	25	26	37	18	14	23	8	5	8	12	16	21
SC-5S	130	60	100	115	32	4.5	113	81	95	56	60	30	30	45	20	16	26	8	6	8	12	16	25

■ Dimensional Drawings for Soft Jaw



■ Dimensions for Soft Jaws

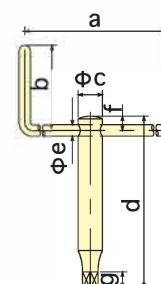
Model	Dimensions	chuck size	S-1	S-2	S-3	S-4 ±0.1	S-5 +0.01 0	S-6 +0.05 +0.02
SBS04S		4	50	18	20	12.5	8	14
SBS05S		5	60	20	22	15	8	16

Model	Dimensions	S-7	S-8	S-9	S-10	S-11	S-12	S-13
SBS04S		5.5	2	29	21	11	6.6	3
SBS05S		5.5	2	35	25	11	6.6	3

■ Dimensional Drawings for Handle

■ Dimensions for Handles

Model	a	b	c	d	e	f	g
SC-4S	130	60	17	120	8	10	11
SC-5S	150	60	20	130	10	12	11



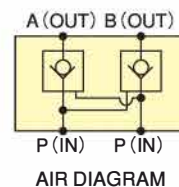
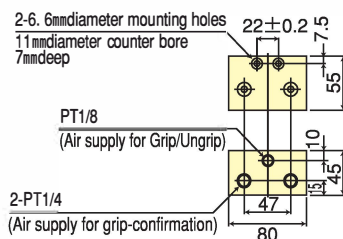


**WORK
GRIPPER**

Option

LV-3

■ Air Lock Valve Unit



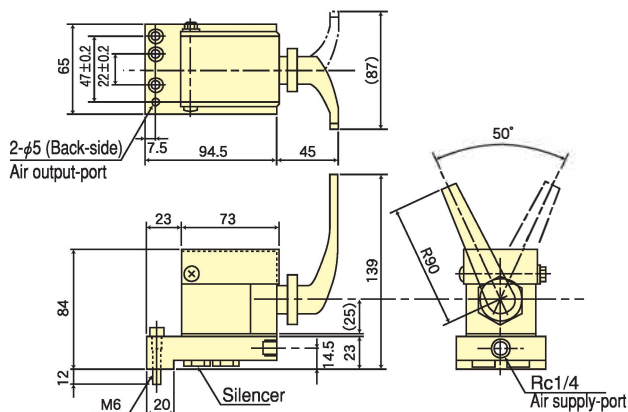
AV-02F

■ Original manual air valve by **KITAGAWA**

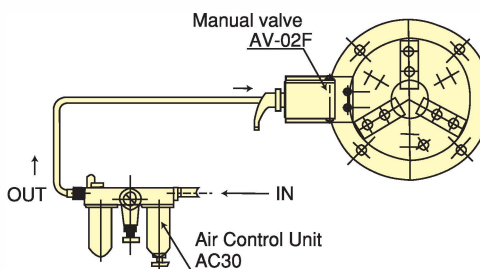


AV-02F allows air system to be simplified

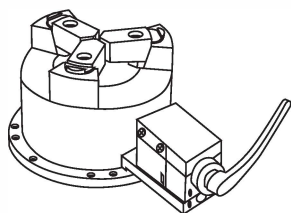
※Valves can be easily mounted onto work gripper and multiplate.



■ Mounting Drawing (by AV-02F)



Max. pressure	1MPa (10kgf/cm ²)
Lever movement	50°
Connection port	Rc1/4



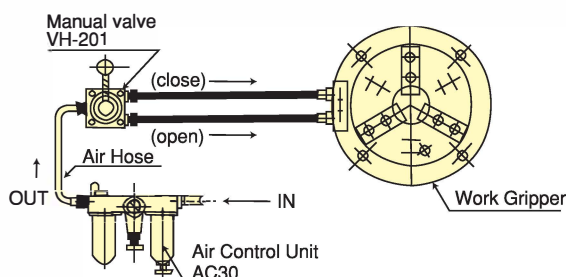
VH-201

■ Manual Air Valve



Max. pressure	1MPa (10kgf/cm ²)
Lever movement	90°
Connection port	Rc1/4

■ Mounting Drawing (by VH-201)



AC30

■ Air Control Unit (With Lubrication)

Max. pressure	1MPa (10kgf/cm ²)
Pressure setting range	0.05~0.85MPa (0.5~8.6kgf/cm ²)
Filter mesh	5μm
Max. temperature	60°C
Connection port	Rc1/4