



アドバンスチャック Advanced Chuck

**量産加工機ラインでの多くの実績
専用ワーク対応
アドバンスチャックシリーズ**

**Exclusively designed work-pieces
specific chucks
for mass production**

あらゆるワークに対応し、量産加工機械用から特殊専用機械用、引込み把握からフェイスクランプなど、ぴったりの把握方法を選定し、安定性を発揮する技術をご提供します。

Designed with gripping to accommodate a variety of applications.



CHUCK

Power Wing Chuck

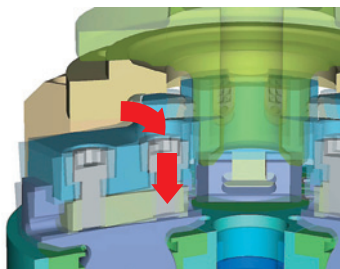
PW(C) series

The specification for PW-C is the compensation chuck. The jaws will follow and grip the component held by Centre and Pin.
The dimensions and specification are the same as those for PW.

Pull back of work-pieces for secure gripping of casting or forging
PWC compensating type for rough casting through centre

●Powerful Gripping

After gripping the component in a radial direction, a power PULL-BACK action is applied which significantly increases the Gripping Force, allowing a heavier machine cut to be taken.



●Complete Sealing

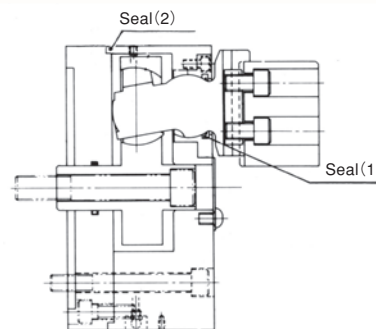
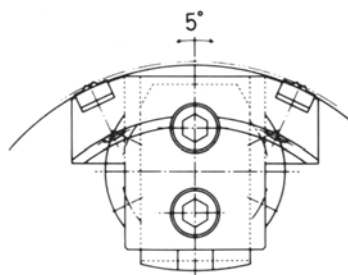
Additional sealing at (1) and (2) reduces grease contamination and increases maintenance period.

●High Durability

Master jaws are of spherical design and sealed against swarf and coolant. This permits High Gripping Forces to be retained between lubrication periods.

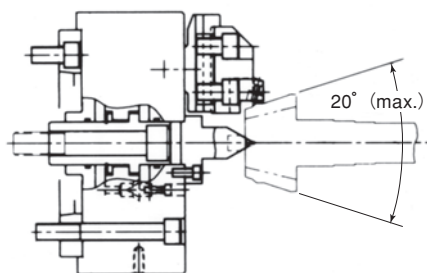
●JAW Equalising 5° max equalising angle

Various work-pieces can be firmly gripped by the self-equalising jaws to max. 5°.



●Gripping on Tapered Parts

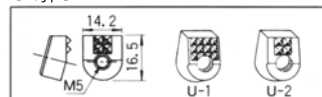
The radial and PULL-BACK jaw action allows rough tapered castings and forgings to be securely gripped to maximum 20°.



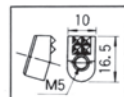
■Type of the gripping pieces

*The type of the gripping pieces is selected according to the work-piece conditions.

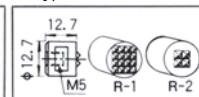
U-Type



U-2S

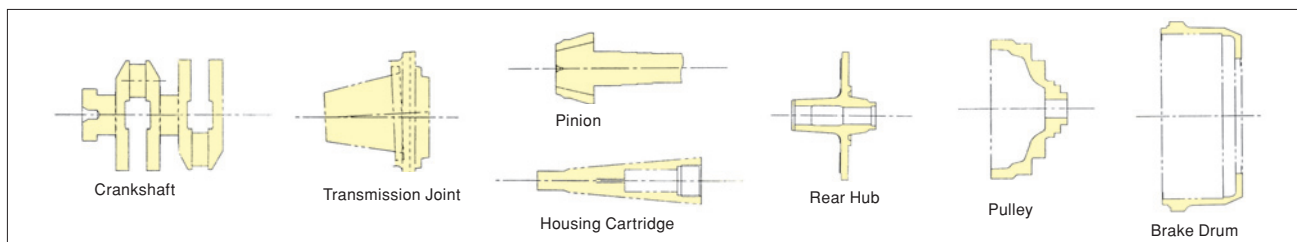


R-Type

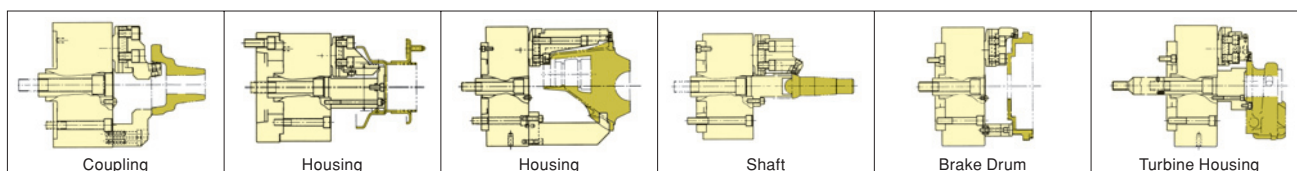


*CE correspondence

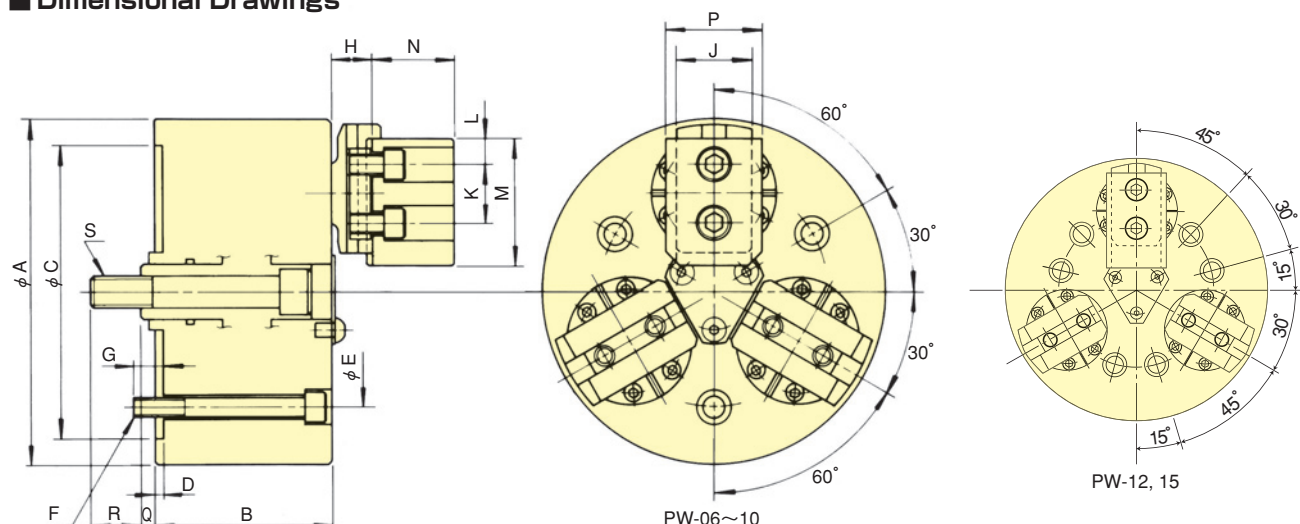
Work-piece Examples



Gripping Examples



■ Dimensional Drawings



■ Dimensions

Model	A	B	C(H6)	D	E	F	G	H	J
PW-06	162	77	140	5	104.8	3-M10	14	19.3	38.07
PW-08	200	88	170	5	133.4	3-M12	18	23.33	44.45
PW-10	254	105	220	5	171.4	3-M16	25	29.14	57.1
PW-12	300	105	220	5	171.4	6-M16	25	29.14	57.1
PW-15	381	117	300	5	235	6-M20	30	32.4	66.62

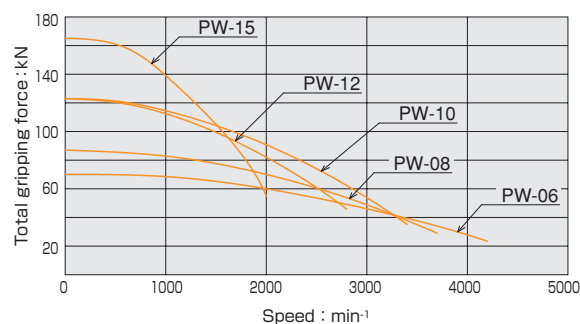
Model	K	L	M	N	P	Q max.	Q min.	R	S
PW-06	29.36	15	67.5	47.7	50.8	24	12.6	25.4	M16
PW-08	34.14	15	74	54.17	57	29.3	15.1	29.2	M18
PW-10	44.45	19	89.5	66.9	70.1	34.9	17.4	34.7	M22
PW-12	44.45	19	108.5	66.9	70.1	34.9	17.4	34.7	M22
PW-15	53.98	23.9	140	73.2	76.2	48.7	26.3	41	M27

■ Specifications

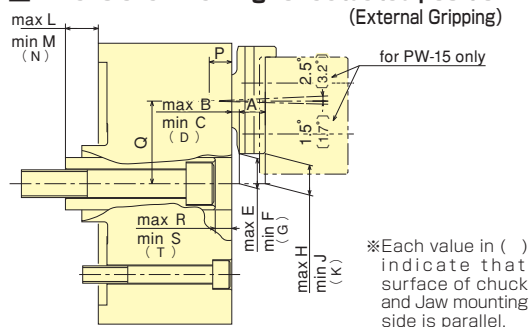
*Gripping dia./gripping range is with standard soft jaws.

Model	Specs	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN	Max. Gripping Force kN	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg · m ²	Matching Cylinder	Max. pressure MPa	Gripping range		Compensation value for PWC only mm
											external φmm	internal φmm	
PW-06		7.9	11.4	23.3	70.0	4200	14.7	0.050	Y1225R/RE47	2.30	13~120	70~160	1.0
PW-08		9.5	14.2	29.0	87.0	3700	23.5	0.110	Y1225R/RE47	2.84	35~152	76~194	1.5
PW-10		12.7	17.5	41.0	123.0	3400	39.3	0.265	Y1530R/RE47	2.80	54~203	94~235	2.0
PW-12		12.7	17.5	41.0	123.0	2800	58.3	0.523	Y1530R/RE47	2.80	58~241	129~300	2.0
PW-15		15.8	22.4	55.0	165.0	2000	95.0	1.943	Y2035R/RE47	2.14	73~317	163~381	3.0

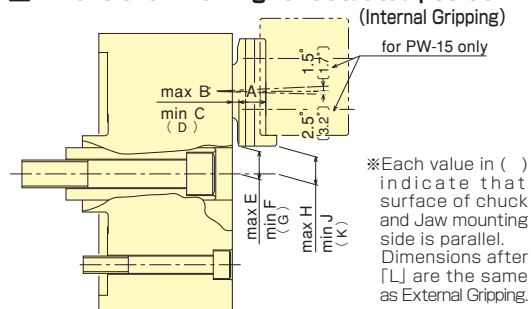
Gripping Performance



■ Dimensional Drawing for actuated position (External Gripping)



■ Dimensional Drawing for actuated position (Internal Gripping)



■ Dimensions for actuated position (External Gripping)

Model	A	B	C	D	E	F	G	H	J	K
PW-06	15.50	5.02	3.05	3.80	20.09	18.89	19.33	20.77	18.48	19.33
PW-08	18.50	5.68	3.24	4.80	22.63	21.18	22.10	23.08	20.36	22.10
PW-10	25.61	5.47	2.44	3.53	31.16	29.44	30.03	32.37	28.77	30.03
PW-12	25.61	5.47	2.44	3.53	51.81	50.09	50.68	53.02	49.42	50.68
PW-15	28.67	6.27	2.35	3.73	75.85	73.76	74.45	77.45	72.91	74.45

Model	L	M	N	P	Q	R	S	T
PW-06	24.0	12.6	18.95	13.20	47.63	14.60	3.20	9.55
PW-08	29.30	15.10	22.95	16.40	57.15	18.50	4.30	12.17
PW-10	34.90	17.40	27.05	19.30	71.43	19.60	2.10	11.75
PW-12	34.90	17.40	27.05	19.30	92.08	19.60	2.10	11.75
PW-15	48.70	26.30	38.40	20.07	120.65	24.90	2.50	14.60

■ Dimensions for actuated position (Internal Gripping)

Model	A	B	C	D	E	F	G	H	J	K
PW-06	15.03	5.66	3.43	4.27	16.32	15.08	15.53	17.25	14.52	15.53
PW-08	16.71	8.35	5.56	6.62	18.04	16.41	17.00	18.99	15.84	17.00
PW-10	20.51	10.92	7.23	8.63	19.59	17.61	18.33	20.74	16.92	18.33
PW-12	20.51	10.92	7.23	8.63	40.24	38.26	38.98	41.39	37.57	38.98
PW-15	23.94	12.19	6.44	8.46	54.75	52.23	53.05	56.41	51.35	53.05



CHUCK

Dual Lock Chuck DL200 series

2-step gripping

Unbelievable versatility with the ability to grip anything you want



●Increased gripping options

KITAGAWA introduce the worlds 1st chuck with two stage gripping action. Parallel jaw clamping with secondary pull back action for work-pieces seating. Jaws do not protrude in the Z Axis unlike conventional pull back chucks. This allows for improved gripping on difficult areas.

The gripping range is extended up the chuck OD allowing a wider range of work-pieces to be machined.

DL series contributes to improve the productivity by applying flexible chucking for various operations.

●Ideal for volume production machining

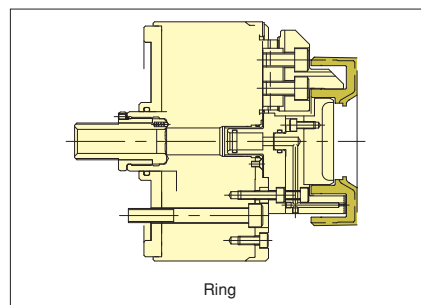
Dust proof sealed body design for long life. Suitable for automation and volume production.

●Easy jaw forming

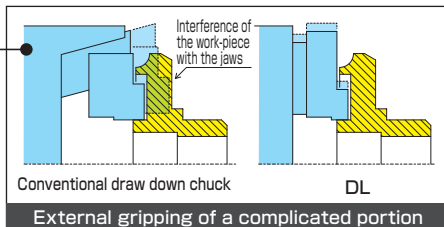
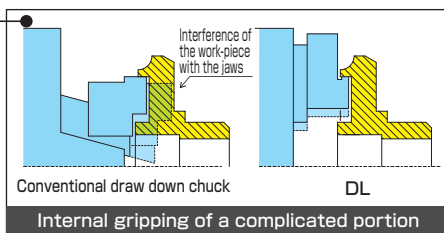
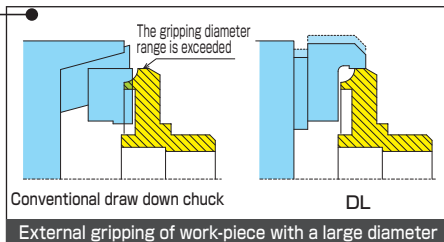
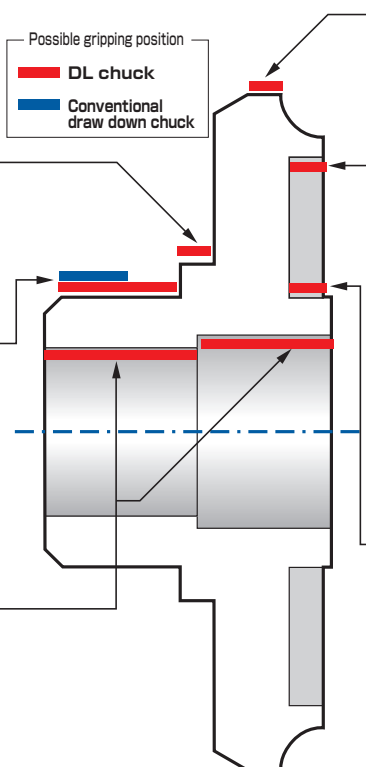
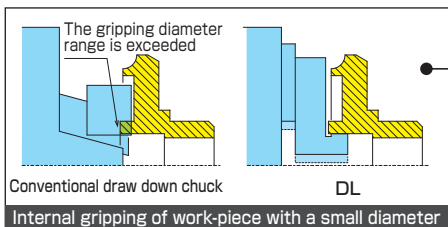
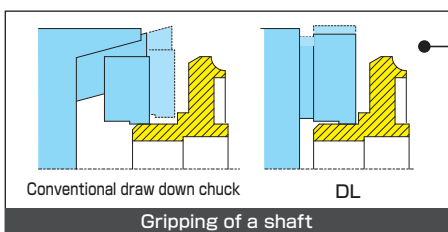
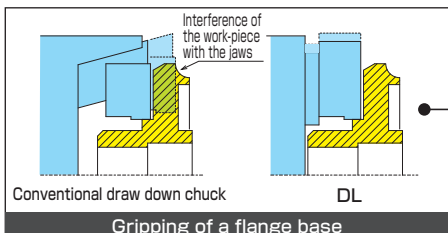
Serrated Jaws are used allowing for easy jaw forming by customer.

*CE correspondence

Gripping Examples



■ Example

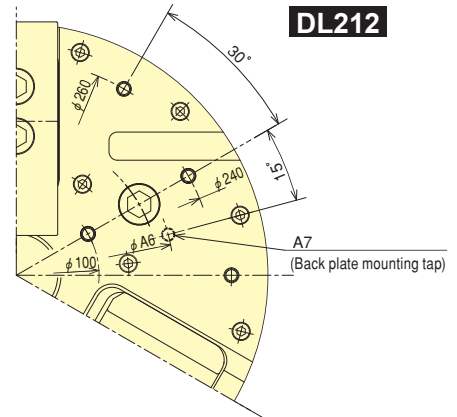
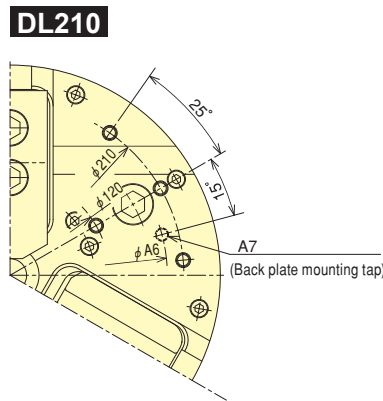
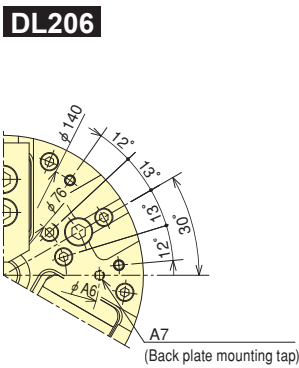
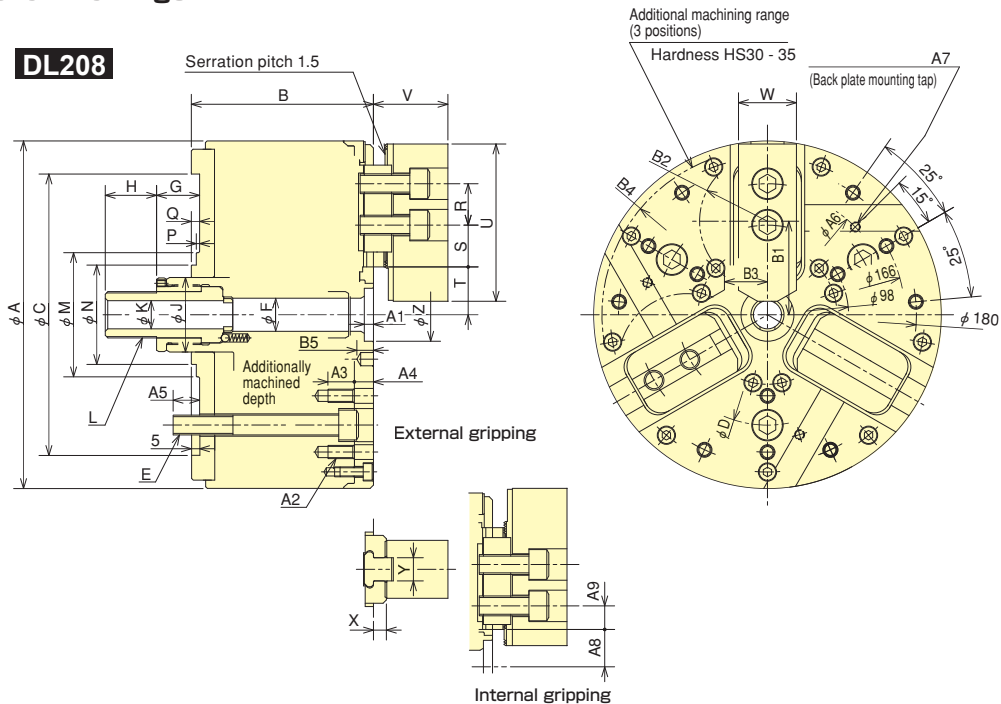


■Precautions for operation

1. Attach a work-piece to a locator before gripping.
2. Do not use the chuck with a T-nut protruded from a master jaw end face.
3. When changing the method for gripping an inner diameter of the work-piece from an outer diameter of the work-piece, remove a cover in order to rotate the master jaw 180-degree.
4. A work-piece pulling quantity work-piece by gripping conditions such as the gripping diameter of the work-piece, stiffness of each jaw, jaw gripping height, etc. If the work-piece will be deformed due to over-pulling of the work-piece or vice versa, it is necessary to adjust parts or replace them. In this case, confer with our company.

5. To obtain a stable gripping and adequate pulling of the work-piece, set jaws low.
6. For additional machining to the chuck end face, a pin hole level is acceptable. Take care so as not to pass through the cover.
7. For locator mounting tap of DL206, use a cover mounting tap.
8. When using optional jaws for DL206 and DL210, the additional machining of jaws may be required.
9. Optional jaw of DL210 is SJ12A1 of 12-inch. Take care so as not to use a wrong type of the jaw.
10. Refer to the amounts below for Jaw Stroke (one side) from the gripping position to the unclamping position.
DL206 : 0.7mm, DL208 : 0.8mm, DL210 : 1mm, DL212 : 1mm
11. Confer with our company about other unclear points.

Dimensional Drawings



Dimensions

Model	A	B	C	D	E	F	G max.	G min.	H	J	K	L	M	N	P	Q	R	S max.	S min.	T max.	T min.
DL206	169	105	140	104.8	3-M10	20	34	22.5	30	42	17	M26×1.5	—	55	—	7	20	14.25	8.25	23.7	20.8
DL208	210	110	170	133.4	3-M12	20	37.5	26	31	45	17	M28×1.5	75	60	2	5	25	25.25	16.25	28.9	25.3
DL210	254	132	220	171.4	3-M16	20	38.5	24.5	39.5	50	17	M30×1.5	—	65	—	5	30	26.25	12.75	32.8	28.3
DL212	304	132	220	171.4	3-M16	50	33.5	19.5	44.5	75	17	M30×1.5	—	—	—	—	30	26.25	12.75	57.8	53.3

Model	U	V	W	X	Y	Z	A1	A2	A3	A4	A5	A6	A7	A8max.	A8min.	A9max.	A9min.	B1	B2	B3	B4	B5
DL206	72	41.5	31	10.3	12	32	4	3×7-M6	12	10.5	15	116	3-M6	23.7	20.8	21.25	15.25	47	R32	24	R79	MAX 9
DL208	95	45	35	7.8	14	32	5.5	3×4-M8	16	11.5	16	150	3-M6	26.2	22.6	20.25	11.25	56.5	R42	27	R100	MAX 10
DL210	101.5	59	45	14.7	18	35	5.5	3×4-M8	16	14	24	190	3-M8	29.7	25.2	35.25	21.75	68	R49	33	R120	MAX 12
DL212	129	64	50	14.7	18	50	14	3×4-M8	16	14	24	190	3-M8	54.7	50.2	35.25	21.75	93	R49	33	R145	MAX 12

Specifications

Model	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN		Max. Gripping Force kN		Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²
			External gripping	Internal gripping	External gripping	Internal gripping			
DL206	5.8	11.5	19.0	12.6	54.0	36.0	6000	18.0	0.080
DL208	7.2	11.5	35.0	23.0	84.0	56.0	5000	30.0	0.135
DL210	9.0	14	50.0	33.0	110.0	73.3	4000	52.0	0.410
DL212	9.0	14	50.0	33.0	110.0	73.3	3000	74.0	0.880

Model	Matching Cylinder	Max. pressure MPa		Gripping range in standard jaw of use mm	Standard jaw type	Gripping range in optional jaw of use mm	Optional jaw type	Min. input kN	Min. pressure MPa
		External gripping	Internal gripping						
DL206	Y1020R/RE47	2.70	1.70	φ25~φ140	SJ06D1	φ25~φ158	SB06B1	5.0	0.9
DL208	Y1225R/RE47	3.40	2.10	φ30~φ210	SJ08B1	—	—	6.2	0.8
DL210	Y1530R/RE47	3.40	2.30	φ40~φ234	SJ10D1	φ40~φ254	SJ12A1 (Note 9)	10.0	0.9
DL212	Y1530R/RE47	3.40	2.30	φ90~φ304	SJ12A1	—	—	10.0	0.9

**CHUCK**

2爪パワーウイングチャック

2-Jaw Power Wing Chuck

PWT(C) series

PWT-C型はコンペイティング（心補償把握）仕様です。センタやピン穴基準で位置決めされたワークに就って把握します。寸法やその他の仕様はPWT型と同一です。
PWC has the same specification as PW with the exception of the fact that PWC is a compensation type.

異形ワーク素材も引込み安定把握

Draw down irregular shaped materials for steady gripping

しっかり掴んで荒加工に最適

PWT(C) for gripping of square or flange castings or forgings



●異形物把握用の2爪タイプ

Two jaw type for gripping irregular work-pieces

3爪タイプ（PWシリーズ）では把握することの難しい角材・角フランジ等の異形物を安定把握します。

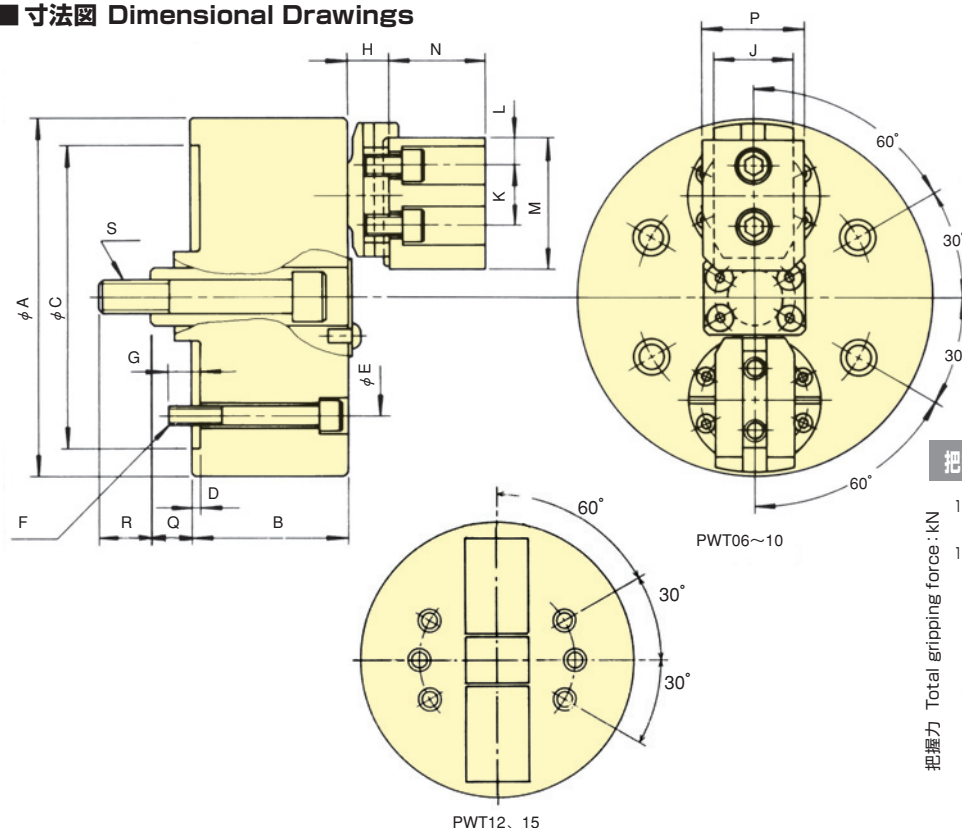
Draw down action ensures secure gripping of work-piece onto a reference surface.

●PWシリーズとソフトジョーの互換性があります

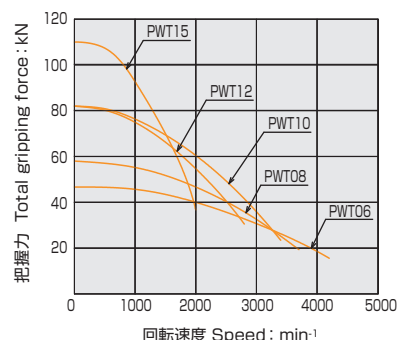
Compatible with PW series and soft jaws

*CE対応品 *CE correspondence

■寸法図 Dimensional Drawings



把握力性能曲線 Gripping Performance



■寸法表 Dimensions

型式 Model	A	B	C(H6)	D	E	F	G	H	J	K	L	M	N	P	Q max.	Q min.	R	S
PWT06	162	77	140	5	104.8	4-M10	14	19.3	38.07	29.36	15	67.5	47.7	50.8	24	12.6	25.4	M16
PWT08	200	88	170	5	133.4	4-M12	18	23.33	44.45	34.14	15	74	54.17	57	29.3	15.1	29.2	M18
PWT10	254	105	220	5	171.4	4-M16	25	29.14	57.1	44.45	19	89.5	66.9	70.1	34.9	17.4	34.7	M22
PWT12	300	105	220	5	171.4	6-M16	25	29.14	57.1	44.45	19	108.5	66.9	70.1	34.9	17.4	34.7	M22
PWT15	381	117	300	5	235	6-M20	30	32.4	66.62	53.98	23.9	140	73.2	76.2	48.7	26.3	41	M27

■仕様表 Specifications ※把握径/把握範囲は標準のソフトジョーを使用した場合。※Gripping dia./gripping range is with standard soft jaws.

仕様 Specs	ジョーストローク Jaw Stroke (diameter)	プランジャストローク Plunger Stroke	許容最大入力 Max. Draw Bar Pull Force	最大静的把握力 Max. Gripping Force	許容最高回転速度 Max. Speed	質量 (標準ソフトジョー付) Net Weight with Soft top jaws	慣性モーメント Moment of inertia	適合シリンダ Matching Cylinder	許容最大油圧 Max. pressure	把握範囲 Gripping range
型式 Model	mm	mm	kN	kN	min⁻¹	kg	kg·m²		MPa	外径 external φ mm / 内径 internal φ mm
PWT06	7.9	11.4	15.5	46.6	4200	14.0	0.047	Y1225R/RE47	1.60	22~120 / 70~160
PWT08	9.5	14.2	19.3	58.0	3700	24.0	0.120	Y1225R/RE47	1.98	43~152 / 76~194
PWT10	12.7	17.5	27.3	82.0	3400	46.0	0.378	Y1530R/RE47	1.85	66~203 / 94~235
PWT12	12.7	17.5	27.3	82.0	2800	63.0	0.720	Y1530R/RE47	1.82	71~241 / 129~300
PWT15	15.8	22.4	36.7	110.0	2000	112.0	2.130	Y2035R/RE47	1.40	89~317 / 163~381



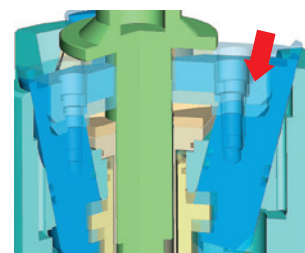
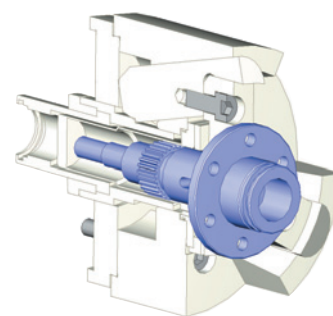
CHUCK

中空プルロックチャック Open Centre Pull Lock Chuck PUB series

ワークを引込み高精度加工
Draw down for high-precision processing

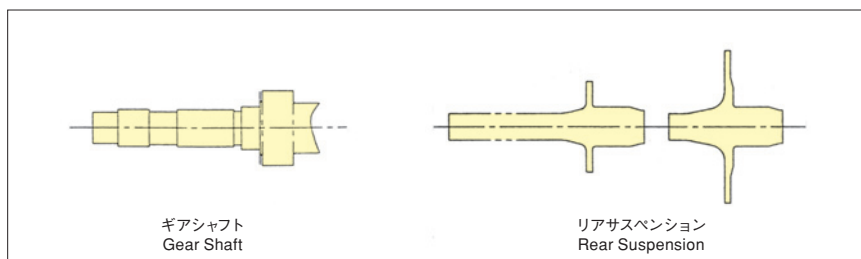
シャフト加工にも対応する中空タイプ
Open Centre type accommodates shaft processing

*CE対応品 *CE correspondence

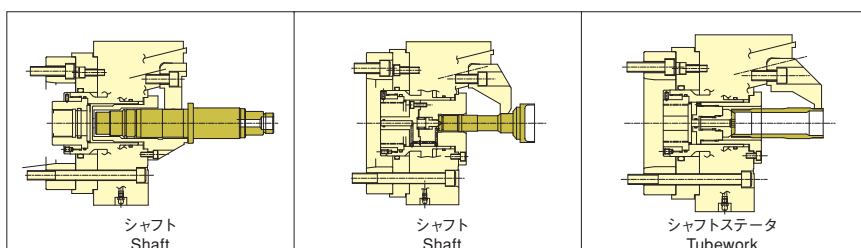


アドバンスチャック
Advanced Chuck

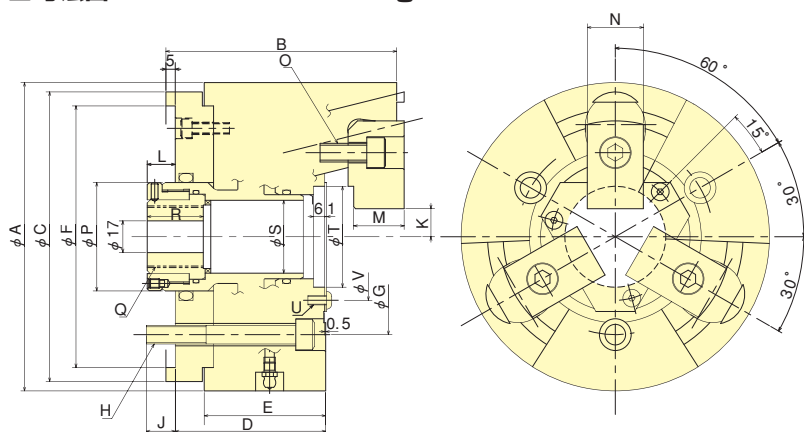
ワーク実績 Work-piece Examples



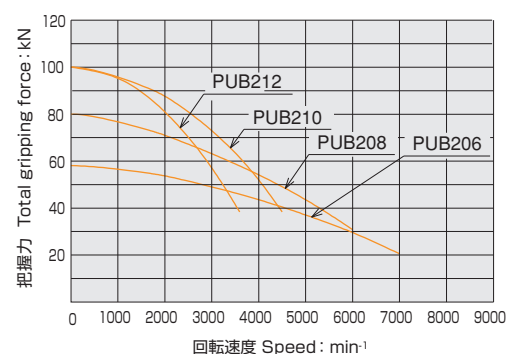
把握状態例 Gripping Examples



■ 寸法図 Dimensional Drawings



把握力性能曲線 Gripping Performance



■ 寸法表 Dimensions

型式 Model	A	B	C	D	E	F (G7)	G	H	J	K max.	K min.	L max.	L min.	M	N	O	P	Q max.	R	S	T (H6)	U	V
PUB206	165	123.5	155	80.5	65	140	104.8	3-M10	15.5	16.25	13.75	20	10	27	30	3-M10	58	M33×1.5	30	39	54	3-M5	68
PUB208	210	143	180	93	70	170	133.4	3-M12	17	16.25	13.75	20	10	31	35	3-M12	79	M45×2.0	29.5	50	66	3-M6	80
PUB210	254	158	230	103	82	220	171.4	3-M16	23	21.25	18.75	24	14	35	40	3-M14	102	M65×2.0	35.5	72	90	3-M8	104
PUB212	304	163	240	103	82	220	171.4	3-M16	25	46.25	43.75	19	9	40	40	3-M14	135	M92×2.0	35.5	100	114	3-M10	130

■ 仕様表 Specifications ※把握径/把握範囲は標準のソフトジョーを使用した場合。※Gripping dia./gripping range is with standard soft jaws.

仕様 Specs	把握径 Gripping range		ジョーストローク(標準) Jaw Stroke (standard)	プランジャストローク Plunger Stroke	許容最大入力 Max. Draw Bar Pull Force	最大静的把握力 Max. Gripping Force	許容最高回転速度 Max. Speed	質量(標準ソフトジョー付) Net Weight with Soft top jaws	慣性モーメント Moment of inertia	適合シリンダ Matching Cylinder	許容最大油圧 Max. pressure	着座仕様時の最大貫通穴径 Max. Through Hole in Seat confirmation Specification
型式 Model	Max. mm	Min. mm	mm	mm	kN	kN	min⁻¹	kg	kg·m²		MPa	mm
PUB206	69	35	5	10	18.0	58.0	7000	14.4	0.053	Y1020R/RE47	2.55	φ29
PUB208	89	35	5	10	25.0	80.0	6000	25.3	0.140	Y1225R/RE47	2.50	φ41
PUB210	112	47	5	10	35.0	100.0	4500	43.5	0.355	Y1225R/RE47	3.35	φ61
PUB212	162	99	5	10	35.0	100.0	3600	60.5	0.675	Y1225R/RE47	3.35	φ87



CHUCK

Pull Lock Chuck PU series

Draw down for high-precision processing
Suitable gripping accuracy for finishing processes
Wide gripping range with the use of optional jaws



●High gripping stability means heavy cutting is possible

Radial gripping forces and strong pull back action allow stable heavy cutting.

●Excellent repeatability!

Side and rear support provided by the base jaws reduces the centrifugal gripping force loss thus resulting in high repeatability.

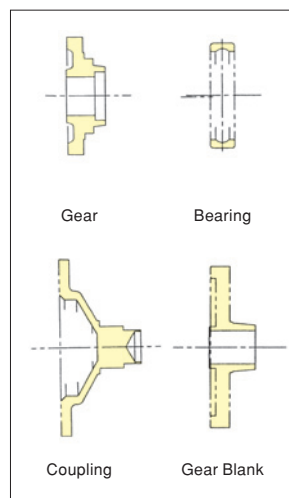
●Long-term stable accuracy!

The sophisticated mechanism and special steel design ensure longevity and gripping accuracy.

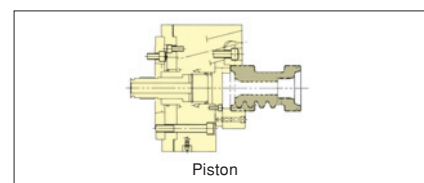
●Compatible with automation by use of seating confirmation

*CE correspondence

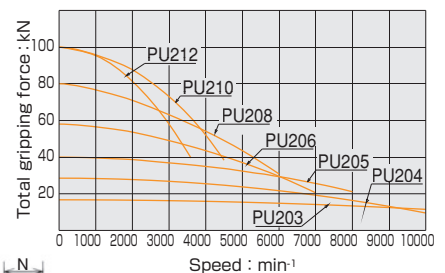
Work-piece Examples



Gripping Examples

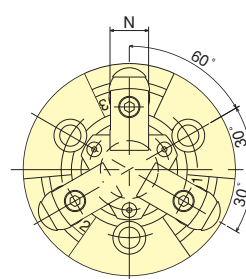
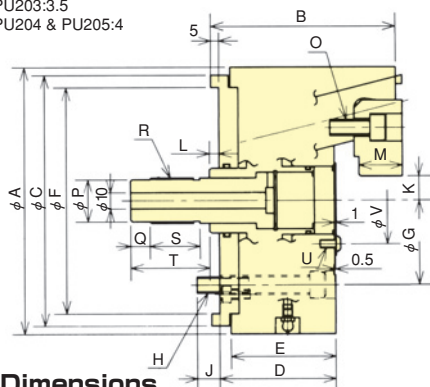


Gripping Performance

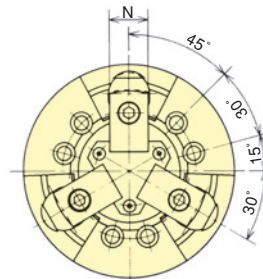


■ Dimensional Drawings

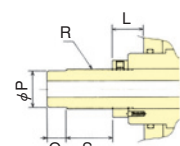
※PU203:3.5
PU204 & PU205:4



PU203~PU205



PU206~PU212



PU203~PU205
(Drawbar connection)

■ Dimensions

Model	A	B	C	D	E	F (G7)	G	H	J	K max.	K min.	L max.	L min.	M	N	O	P	Q	R	S	T	U	V
PU203	75	54.5	75	38.5	34	69	54	3-M6	9	2.5	1.5	21.5	17.5	9	15	3-M5	8	10	M10	19	—	3-M3	25.5
PU204	110	72.5	100	51	43	85	70.6	3-M10	12	10.75	9.25	19	13	14	20	3-M6	18	12	M20x1.5	24	—	3-M4	42
PU205	135	84.5	135	59	51	110	82.6	3-M10	15	13.25	11.75	23	17	17	24	3-M8	23	12	M25x1.5	30	—	3-M5	52
PU206	165	115	155	72	65	140	104.8	6-M10	14	16.25	13.75	11	1	27	30	3-M10	26	12	M28x1.5	31	49	3-M5	54
PU208	210	135	180	85	70	170	133.4	6-M12	15	16.25	13.75	11	1	31	35	3-M12	32	15	M35x1.5	30	51	3-M6	65
PU210	254	150	230	95	82	220	171.4	6-M16	23	21.25	18.75	12	2	35	40	3-M14	35	15	M38x1.5	30	51	3-M8	80
PU212	304	155	240	95	82	220	171.4	6-M16	23	46.25	43.75	12	2	40	40	3-M14	42	15	M45x1.5	30	51	3-M10	100

■ Specifications

※When using PU203 or PU204 AT MORE THAN 8000min⁻¹, a special cylinder is required.

※Gripping dia./gripping range is with standard soft jaws.

Specs	Gripping range		Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN	Max. Gripping Force kN	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching Cylinder	Max. pressure MPa
Model	Max. mm	Min. mm									
PU203	28	6	2	4	5.8	16.7	10000	1.5	0.0012	YG-329 ※	1.63
PU204	50	24	3	6	10.0	28.5	8000 10000	3.8	0.006	F0933H YG-296 ※	2.06 1.18
PU205	64	29	3	6	14.0	40.0	8000	6.6	0.017	F0933H	2.50
PU206	69	35	5	10	18.0	58.0	7000	14.1	0.050	Y1020R/RE47	2.55
PU208	89	35	5	10	25.0	80.0	6000	24.0	0.133	Y1225R/RE47	2.50
PU210	112	47	5	10	35.0	100.0	4500	42.0	0.338	Y1225R/RE47	3.35
PU212	162	99	5	10	35.0	100.0	3600	60.5	0.655	Y1225R/RE47	3.35

**CHUCK**

内径プルロックチャック Internal Pull Lock Chuck

PUE series

ワーク内径を引込み把握
Pull back chuck for internal gripping

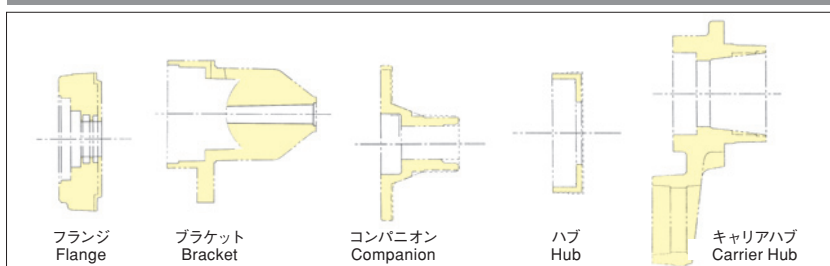
抜群の安定精度で仕上げ加工に最適
Draw down for high-precision processing

*CE対応品 *CE correspondence

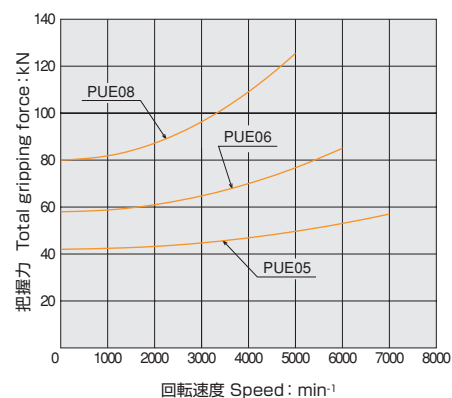
オプションジョーの使用で把握範囲拡大
Wide gripping range with the use of optional jaw



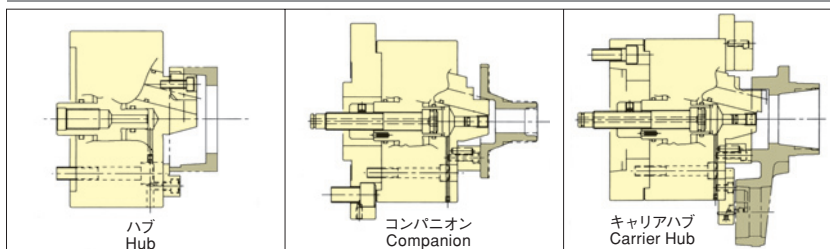
ワーク実績 Work-piece Examples



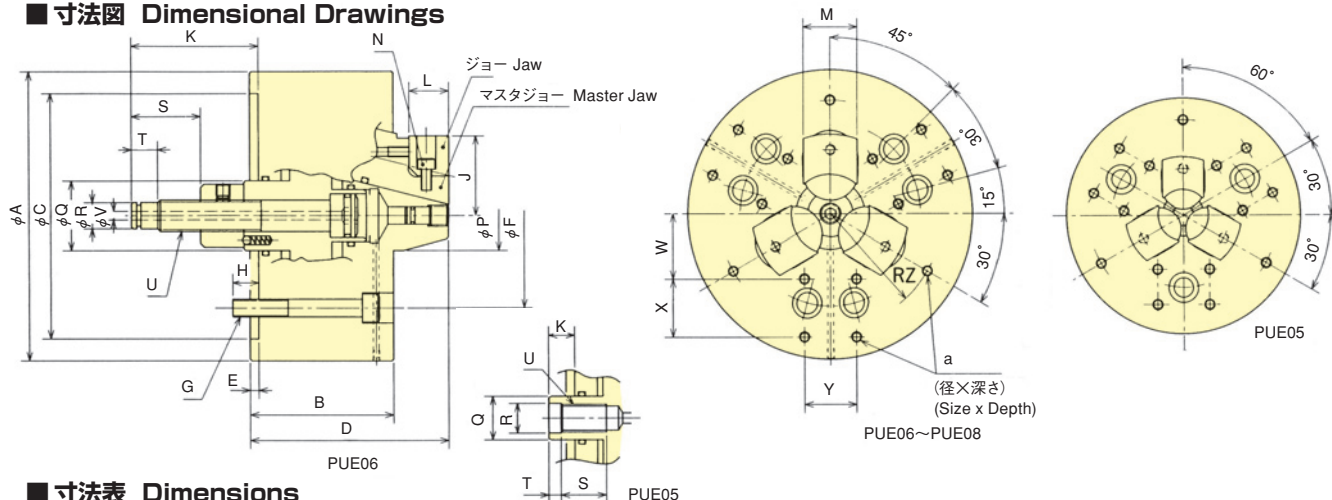
把握力性能曲線 Gripping Performance



把握状態例 Gripping Examples



■ 寸法図 Dimensional Drawings



■ 寸法表 Dimensions

型式 Model	A	B	C(G7)	D	E	F	G	H	J max.	J min.	K max.	K min.	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	a
PUE05	135	72	110	98	5	82.55	3-M10	15	34.4	33	18	12	20	24	3-M6	24	25	17 ^{±0.1}	26	7	M16x2	—	31	20	30	55	M6x11
PUE06	165	83	140	115	5	104.8	6-M10	15	46.9	44.5	78.8	68.5	23	31	3-M6	40	40	15h8	40	15	M18x25	5	37	33	30	65	M6x11
PUE08	210	94	170	139	5	133.4	6-M12	17	57.2	54.8	91.8	81.5	23	35	3-M6	49	40	15h8	47.5	15	M20	5	45	40	30	80	M6x11

■ 仕様表 Specifications

※PUE05で6000min⁻¹を越えて使用の際はシリンダが特殊となりますので、別途打合せとさせていただきます。
※When using PUE-05 at more than 6000min⁻¹, a special cylinder is required.

仕様 Specs 型式 Model	ジョーストローク (直径) Jaw Stroke(diameter) mm	プランジャストローク Plunger Stroke mm	許容最大入力 Max. Draw Bar Pull Force kN	最大静的把握力 Max. Gripping Force kN	許容最高回転速度 Max. Speed min ⁻¹	質量 (標準ソフトジョー付) Net Weight with Soft top jaws kg	慣性モーメント Moment of inertia kg・m ²	適合シリンダ Matching Cylinder	許容最大油圧 Max. pressure MPa	把握範囲 Gripping range		
										標準ジョー Standard jaws	オプションジョー Option jaws	マスタジョー把握 Master jaws
PUE05	2.8	6	13.0	42.0	7000	7.6	0.018	Y1020R/RE47*	1.90	φ53～φ63	φ69～φ78	φ29～φ53
PUE06	4.8	10.3	18.0	58.0	6000	13.9	0.043	Y1020R/RE47	2.50	φ70～φ87	φ89～φ108	φ44～φ70
PUE08	4.8	10.3	24.8	80.0	5000	26.8	0.144	Y1020R/RE47	3.40	φ74～φ108	φ113～φ148	φ50～φ74

**CHUCK**

レベルロックチャック Level Lock Chuck LU series

低コストでも引込み把握 Economical pull back chuck

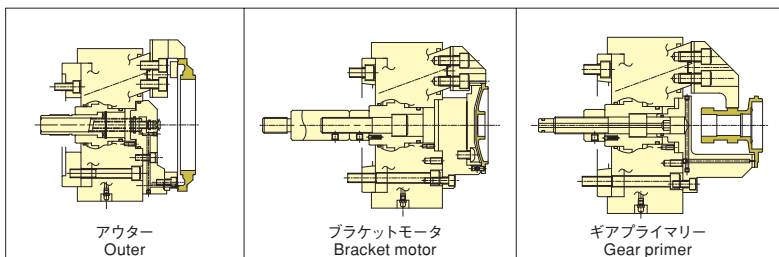
大きなジョーストロークでワーク搬入も容易に Easy work-piece loading with long jaw stroke

- 抜き勾配のある鋳物・鍛造品の把握が可能
Suitable for gripping castings and forgings with draft angle
- 大きなジョーストロークを実現 Long Jaw Stroke
- 安定した把握精度 Stable gripping accuracy

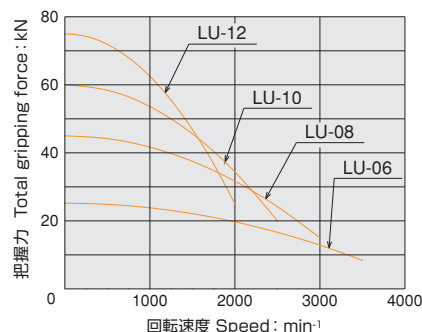


アドバンスチャック
Advanced Chuck

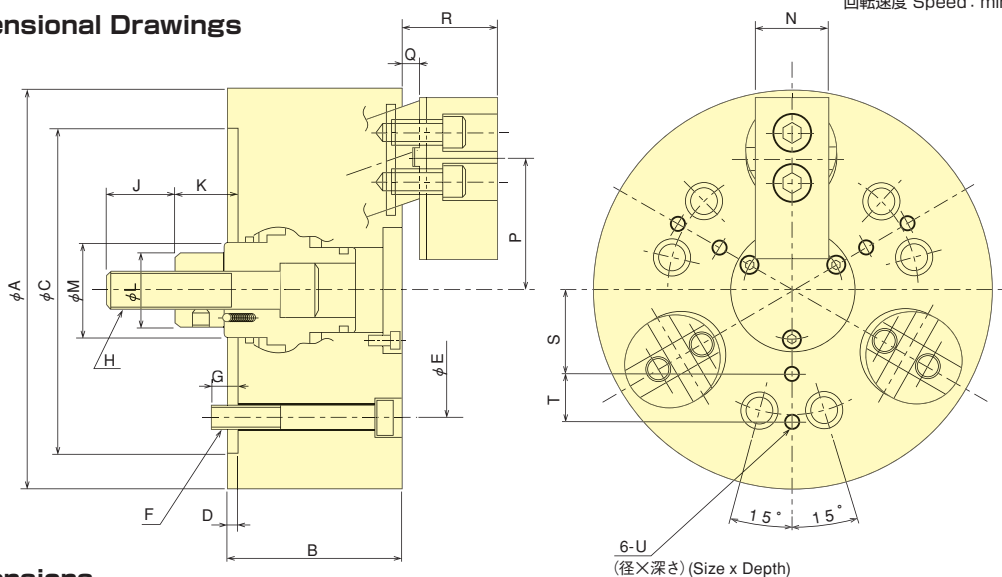
把握状態例 Gripping Examples



把握力性能曲線 Gripping Performance



■ 寸法図 Dimensional Drawings



■ 寸法表 Dimensions

型式 Model	寸法 Dimensions																						
	A	B	C	D	E	F	G	H	J	K (max.)	K (min.)	L	M	N	P (max.)	P (min.)	Q (max.)	Q (min.)	R (max.)	R (min.)	S	T	U
LU-06	165	80	140	5	104.8	6-M10	16	M16x20	36	33	23	32	35	35	58.0	54.4	14	4	45	35	35	20	M6x12
LU-08	210	90	170	5	133.4	6-M12	15	M20x25	36	38	28	38	50	40	70.8	67.2	15	5	56	46	45	25	M8x15
LU-10	254	110	220	5	171.4	6-M16	24	M24x30	46	47	32	50	60	50	85.0	79.6	19	4	65	50	55	30	M8x15
LU-12	304	125	220	5	171.4	6-M16	24	M27x30	50	47	32	50	60	60	102.0	96.6	19	4	70	55	70	35	M10x17

■ 仕様表 Specifications

※ 把握径/把握範囲は標準のソフトジョーを使用した場合。※ Gripping dia./gripping range is with standard soft jaws.

仕様 Specs	ジョーストローク (直径) Jaw Stroke (diameter) mm	プランジャストローク Plunger Stroke mm	許容最大入力 Max. Draw Bar Pull Force kN	最大静的把握力 Max. Gripping Force kN	許容最高回転速度 Max. Speed min⁻¹	質量 Net Weight kg	慣性モーメント Moment of inertia kg·m²	適合シリンダ Matching Cylinder	許容最大油圧 Max. pressure MPa	把握範囲 Gripping range mm
LU-06	7.2	10	15.0	25.2	3500	13.7	0.045	Y1020R/RE47	2.15	31~165
LU-08	7.2	10	25.0	45.0	3000	26.0	0.143	Y1225R/RE47	2.50	37~210
LU-10	10.8	15	35.0	60.0	2500	45.5	0.373	Y1225R/RE47	3.30	47~254
LU-12	10.8	15	45.0	75.0	2000	68.0	0.800	Y1530R/RE47	3.00	50~304



CHUCK

Finger Chuck FG(T) series

Face clamping chuck, ideal for thin walled work-pieces

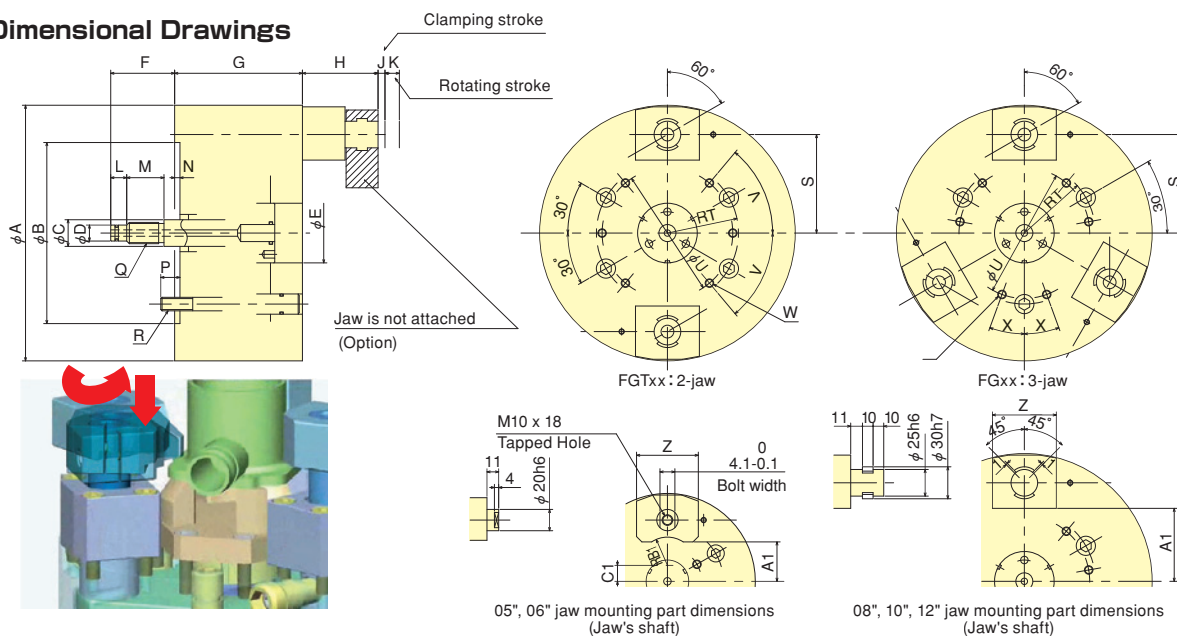
- Distortion is reduced by using face clamping on thin section parts
- Using the aluminium rear body allows for high speed rotation, thus saving machining time
- Jaws include equalising mechanism to securely grip parts with variable thickness (Equalization amount/2.5 mm max)
- Through hole allows pneumatic accessories

*CE correspondence



アドバンスドチャック
Advanced Chuck

Dimensional Drawings



Dimensions

*FGT : 2-jaw, FG : 3-jaw

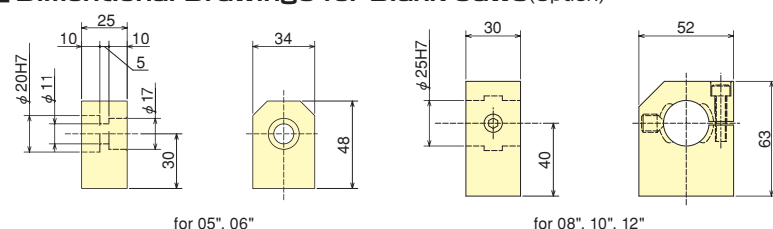
Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	A1	B1	C1
Model																											
FGT05/FG05	135	110	14	9	37	50-70	110	36-56	8	12	15	30	5	14	M12	M10	42.5	41.3	50	30°	4-M6 screw depth 12	—	3-M6 screw depth 12	58	22	26.5	—
FGT06/FG06	165	140	16	12	40	50-70	110	36-56	8	12	15	30	5	14	M16	M10	57.5	52.4	64	30°	4-M8 screw depth 15	—	3-M8 screw depth 15	58	37	26.5	15
FGT08/FG08	210	170	25	16	56	50-70	120	71-91	8	12	15	30	5	18	M20	M12	77.5	66.7	104	50°	6-M8 screw depth 15	20°	6-M8 screw depth 15	60	53.5	—	—
FGT10/FG10	254	220	25	16	56	50-70	120	71-91	8	12	15	30	5	24	M20	M16	99.5	85.7	140	50°	6-M8 screw depth 15	20°	6-M8 screw depth 15	60	75.5	—	—
FGT12/FG12	304	220	25	16	56	50-70	120	71-91	8	12	15	30	5	24	M20	M16	124.5	85.7	190	50°	6-M8 screw depth 15	20°	6-M8 screw depth 15	60	100.5	—	—

Specifications

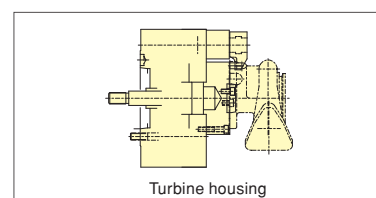
*FGT : 2-jaw, FG : 3-jaw *1-Jaw length : 30mm *2-Jaw length : 40mm

Specs	Max. Draw Bar Pull Force kN(kgf)	Max. Speed min ⁻¹	Net Weight kg	Moment of inertia kg·m ²	Matching Cylinder	Clamping stroke mm	Gripping force / jaw kN	Max. Gripping dia. mm	Limit height by optional jaw	Equalizing q'ty mm	Cylinder with seating
Model											
FGT05/FG05	5.0 / 7.5	4000	10.0 / 12.0	0.025 / 0.030	Y1020R/RE	8	2.0 *1	52	41	1	Y1020RE39
FGT06/FG06	6.0 / 9.0	4000	11.0 / 13.0	0.045 / 0.050	Y1020R/RE	8	2.5 *1	78	41	1.5	Y1020RE39
FGT08/FG08	12.0 / 18.0	3500	22.0 / 24.0	0.130 / 0.140	Y1020R/RE	8	5.5 *2	105	61	2	Y1020RE39
FGT10/FG10	12.0 / 18.0	3500	34.0 / 36.0	0.290 / 0.310	Y1020R/RE	8	5.5 *2	150	61	2	Y1020RE39
FGT12/FG12	12.0 / 18.0	3000	46.0 / 48.0	0.570 / 0.590	Y1020R/RE	8	5.5 *2	200	61	2.5	Y1020RE39

Dimentional Drawings for Blank Jaws(Optional)



Gripping Examples



**CHUCK**

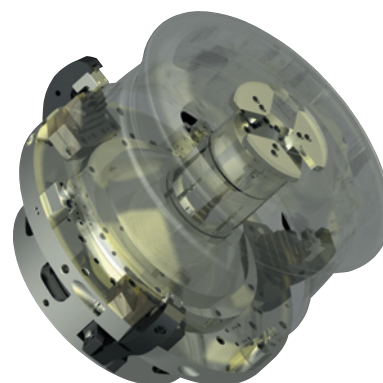
高剛性アルミホイール用フィンガーチャック

Finger Chuck for Automotive Wheels

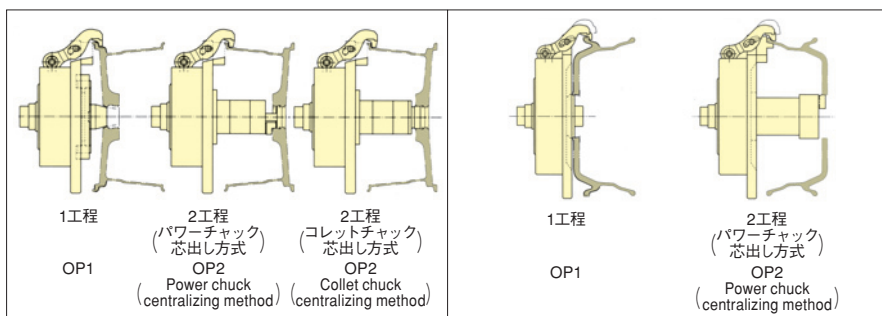
FG-V series

高剛性ボデー採用
Rigid body

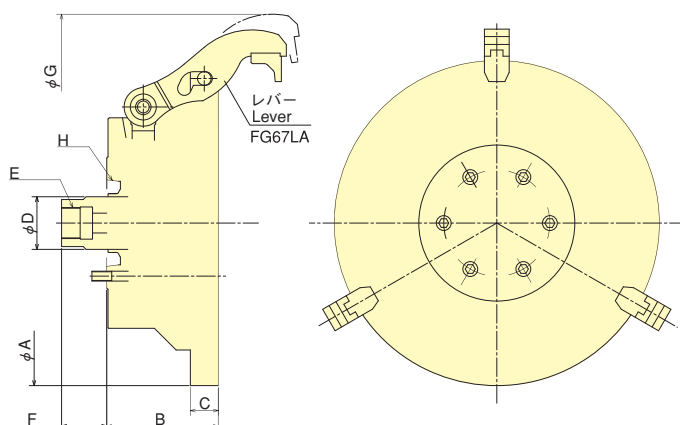
4輪用アルミホイール加工に最適
Finger Chuck for aluminium wheel machining for automobiles



把握状態例 Gripping Examples



■ 寸法図 Dimensional Drawings



■ 寸法表 Dimensions

型式 Model	寸法 Dimensions	A	B	C	D	E	F max.	F min.	G	H
FG50V		525	180	45	85	M50×1.5	73	38	675	A2-8
FG56V		575	180	45	85	M50×1.5	73	38	725	A2-11
FG62V		625	180	45	85	M50×1.5	73	38	775	A2-11

■ 仕様表 Specifications

型式 Model	仕様 Specs	許容最大入力 Max. Draw Bar Pull Force kN	許容最高回転速度 Max. Speed min ⁻¹	質量 Net Weight kg	慣性モーメント Moment of inertia kg·m ²	開爪ストローク/直進ストローク Open jaw stroke/Clamping stroke mm	ジョー1個の締付力 Gripping force/jaw kN
FG50V		30.0	2500	135	3.75	18.5/16.5	9.5
FG56V		30.0	2500	190	5.8	18.5/16.5	9.5
FG62V		30.0	2200	220	8.8	18.5/16.5	9.5

■ ホイールサイズ対応表 Measurement table for Wheel

型式 Model	ホイールサイズ Wheel size	12"	13"	14"	15"	16"	17"	18"	19"	20"	21.5"	22.5"
FG50V			○	○	○	○	○	○				
FG56V			○	○	○	○	○	○	○	○		
FG62V						○	○	○	○	○	○	○

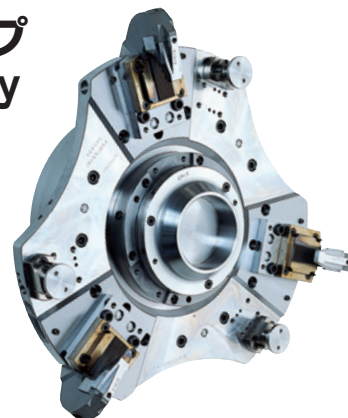
**CHUCK**

アルミホイール用フィンガーチャック Finger Chuck for Automotive Wheels FG-L series

軽量ボデーのKITAGAWAスタンダードタイプ Standard Finger Chuck with Light-Weight Body

4輪用アルミホイール加工に最適

Finger Chuck for aluminium wheel machining for automobiles



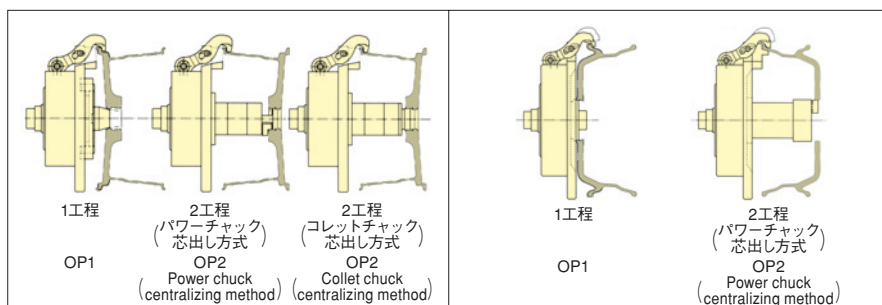
●高速回転にも対応できます High Speed

コンピューター解析を駆使した理想的な構造設計により最高回転数がフルサイズ(13~18)で3000min⁻¹まで可能となりました。

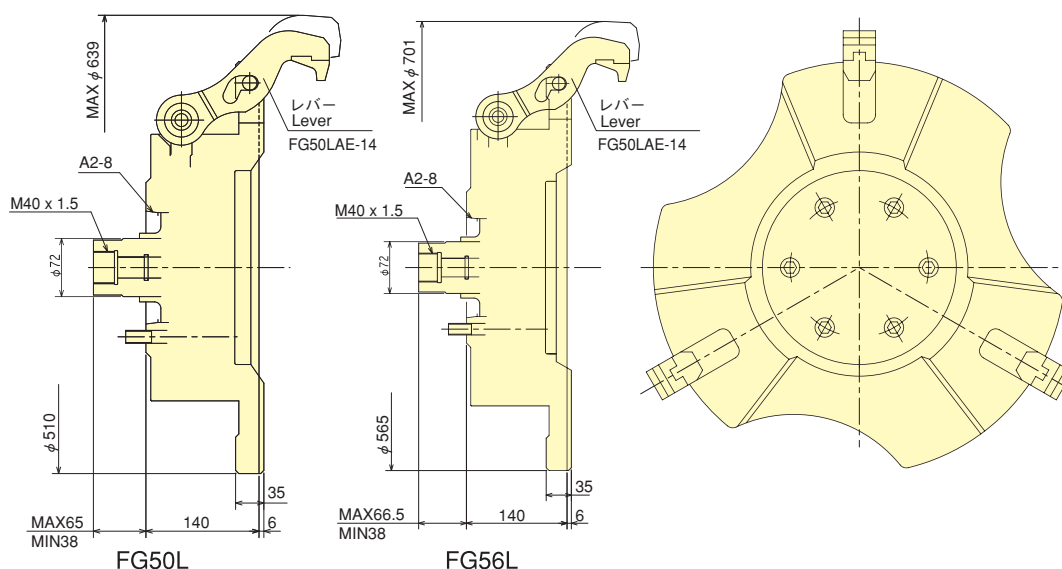
A technological breakthrough in the design has allowed a max speed of 3000 min⁻¹ for each wheel size (13~18").

アドバンスチャック
Advanced Chuck

把握状態例 Gripping Examples



■寸法図 Dimensional Drawings



■仕様表 Specifications

型式 Model	仕様 Specs	許容最大入力 Max. Draw Bar Pull Force kN	許容最高回転速度 Max. Speed min ⁻¹	質量 Net Weight kg	慣性モーメント Moment of inertia kg·m ²	開爪ストローク/直進ストローク Open jaw stroke/Clamping stroke mm	ジョー1個の締付力 Gripping force/jaw kN
FG50L		30.0	3000	79	1.7	17/10	9.5
FG56L		30.0	2500	105	2.8	18.5/10	9.5

■ホイールサイズ対応表 Measurement table for Wheel

型式 Model	ホイールサイズ Wheel size	12"	13"	14"	15"	16"	17"	18"	19"	20"	21.5"	22.5"
FG50L			○	○	○	○	○	○				
FG56L			○	○	○	○	○	○	○	○		



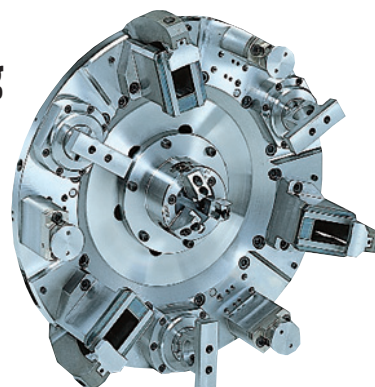
CHUCK

アルミホイール用フィンガーチャック 6-Jaw Finger Chuck for Motorcycle Wheels **FG-M** series

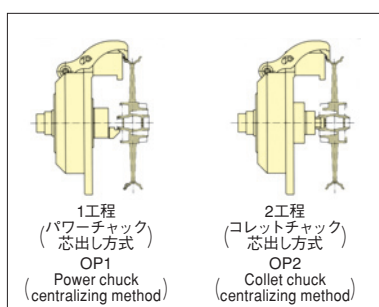
2輪用アルミホイール加工に最適 Finger Chuck for aluminium wheel machining for motorcycles

●安定性も抜群です High Stability

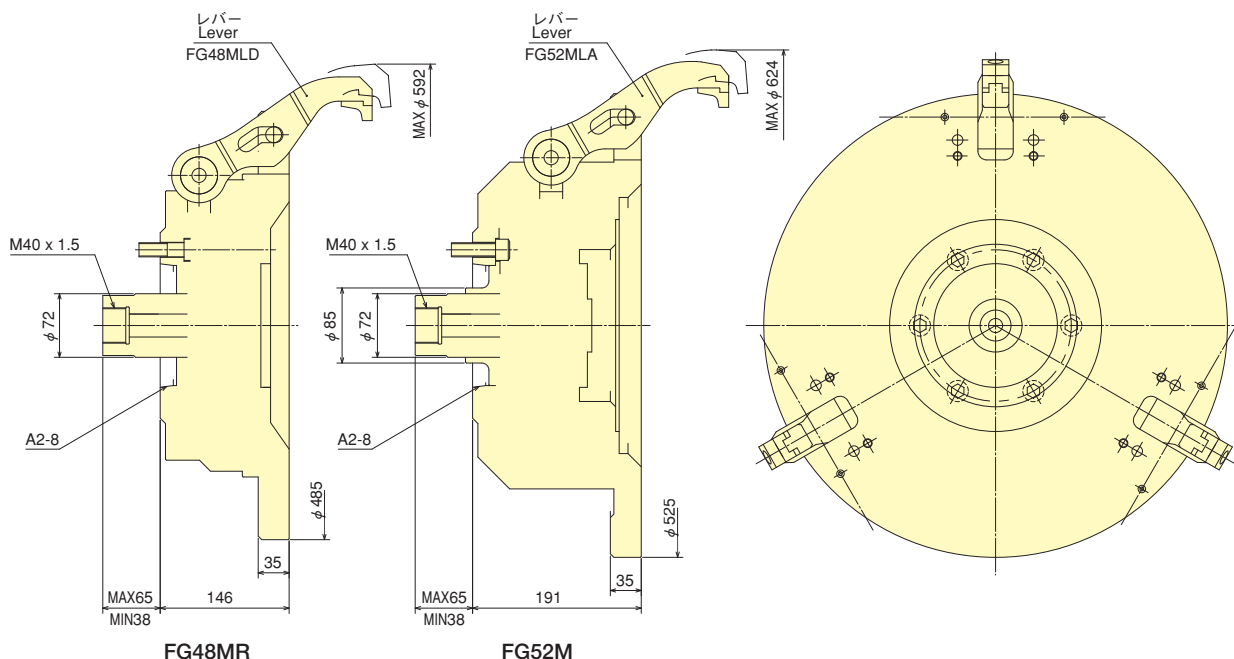
フローティング機構の採用によりぶれのない安定したチャッキングが行えます。
The floating mechanism ensures firm chucking.



把握状態例 Gripping Examples



■寸法図 Dimensional Drawings



■仕様表 Specifications

型式 Model	仕様 Specs	許容最大入力 Max. Draw Bar Pull Force kN	許容最高回転速度 Max. Speed min ⁻¹	質量 Net Weight kg	慣性モーメント Moment of inertia kg·m ²	開爪ストローク/直進ストローク Open jaw stroke/Clamping stroke mm	ジョー1個の締付力 Gripping force/jaw kN
FG48MR		12.0	2500	84	1.9	14/13	3.5
FG52M		21.0	2500	130.0	3.650	14/13	6.5

■ホイールサイズ対応表 Measurement table for Wheel

型式 Model	ホイールサイズ Wheel size	12"	13"	14"	15"	16"	17"	18"	19"	20"	21.5"	22.5"
FG48MR		○	○	○	○	○	○	○				
FG52M		○	○	○	○	○	○	○	○			

**CHUCK**

省段取りアルミホイール用フィンガーチャック

Easy Preparation Finger Chuck for Automotive Wheels

FG-Q series

インチ変更の段取りが短時間で
Quick set-up for size changes

4輪用アルミホイール加工に最適
Finger Chuck for aluminium wheel machining
for automobiles

- ホイールサイズ変更の段取りが容易です
Easy preparation for each size of Wheel

- 段取り時間が約30秒です
The setup time is approximately 30 seconds

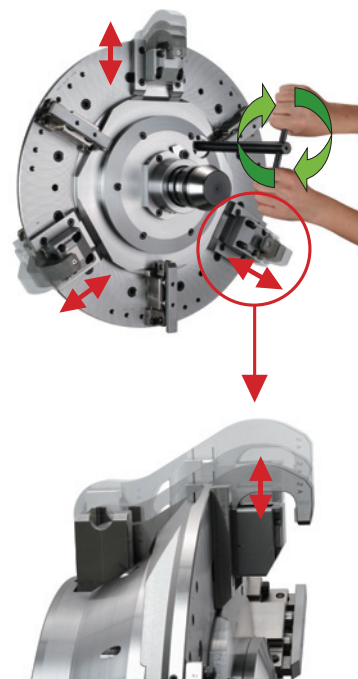
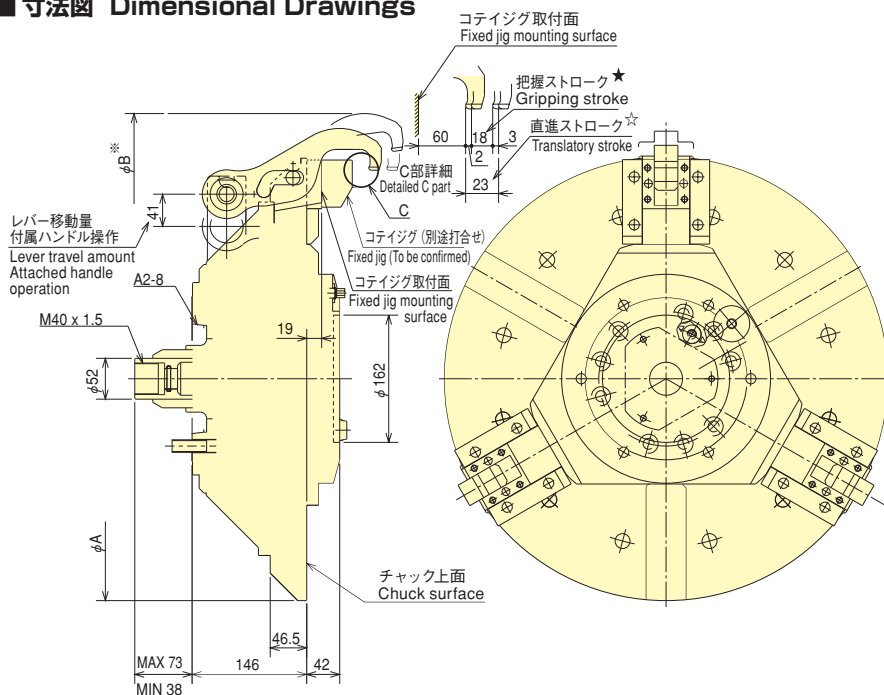
インチ変更の段取り時、ハンドルを回すだけで3箇所のレバーと固定ジグが同時にストロークするので短時間でセットアップができます。

Due to the preparation for each size, three levers and fixed jigs are moved simultaneously simply by rotating the handle, thus saving the setup time.



アドバンスドチャック
Advanced Chuck

■ 寸法図 Dimensional Drawings



■ 寸法表 Dimensions

※Bはレバー A使用時

※B shows the state in use of the lever A.

型式 Model	A	B※
FG56Q	565	672
FG62Q	620	727

■ 仕様表 Specifications

仕様 Specs	ジョーストローク Jaw Stroke			許容最大入力 Max. Draw Bar Pull Force kN	許容最高 回転速度 Max. Speed min ⁻¹	質量 Net Weight kg	慣性モーメント Moment of inertia kg・m ²	ジョー1個 の締付け力 Gripping force /Jaw kN
	全ストローク Full Stroke mm	直進・把握ストローク Translatory・ Gripping Stroke mm	開爪ストローク Open Jaw Stroke mm					
型式 Model								
FG56Q	35	23/18	12	30.0	2500	117.5	4.130	9.5
FG62Q					2200	195.0	7.500	

■ ホイールサイズ対応表 Measurement table for Wheel

ホイールサイズ Wheel size	レバー Lever	13	14	15	16	17	18	19	20	21	22
FG56Q	A					○	○	○	○		
	C	○	○	○	○						
	B (オプション)			○	○	○	○				
FG62Q	A							○	○	○	
	C			○	○	○	○				○
	B (オプション)					○	○	○	○		