



CHUCK

Power Wing Chuck PW(C) series

※PWC has the same specification as PW with the exception of the fact that PWC is a compensation type.

Pull back of workpiece 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.

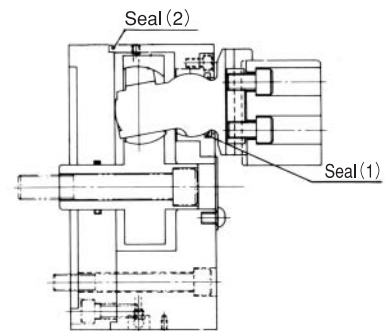


● High Durability

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

● Complete Sealing

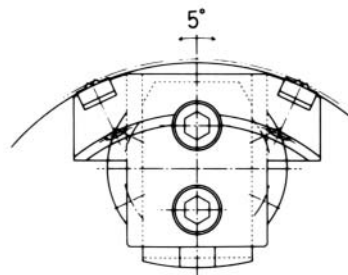
Additional sealing at (1) and (2) reduces grease contamination and increases maintenance period.



● JAW Equalising

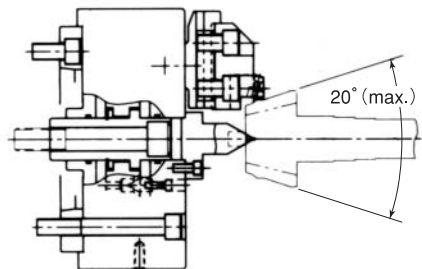
5° max equalising angle

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



● Gripping on Tapered Parts

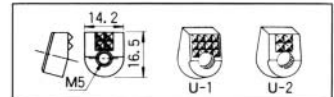
The radial and PULL-BACK jaw action allows rough tapered castings and forgings to be securely gripped to maximum 20°.



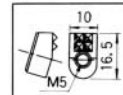
■ Type of the gripping pieces

※The type of the gripping pieces is selected according to the work conditions.

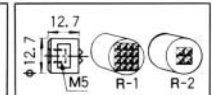
U-Type



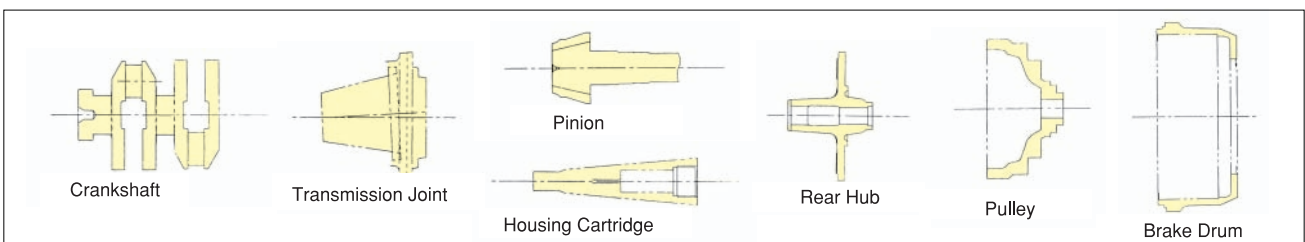
U-2S



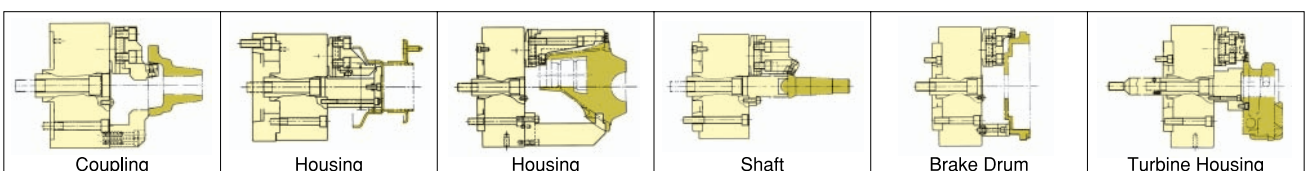
R-Type



Work Examples

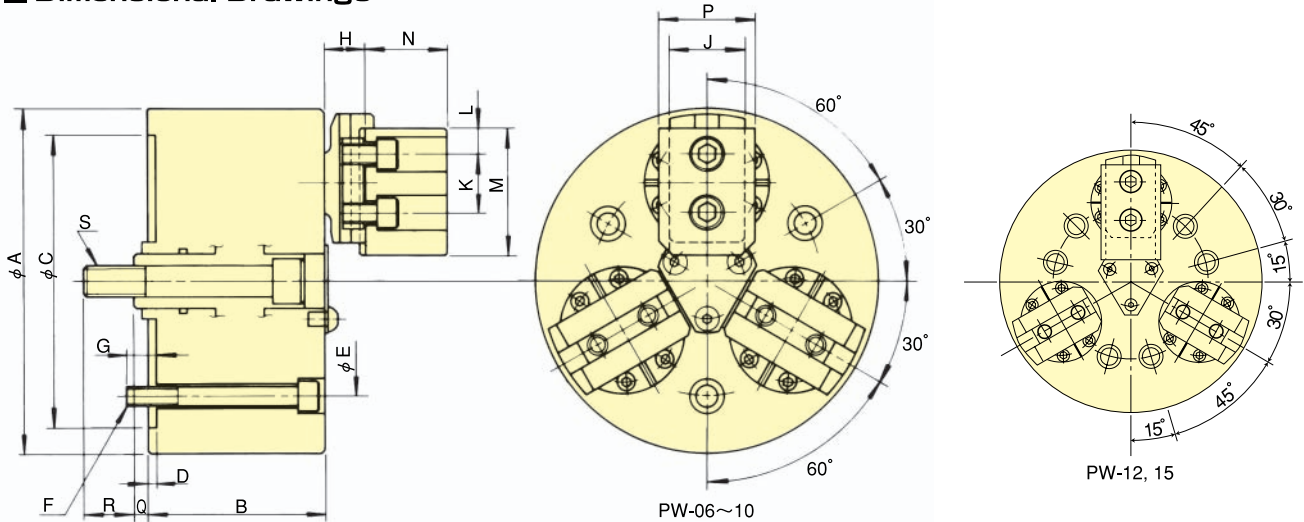


Gripping Examples



Advanced Chuck

Dimensional Drawings

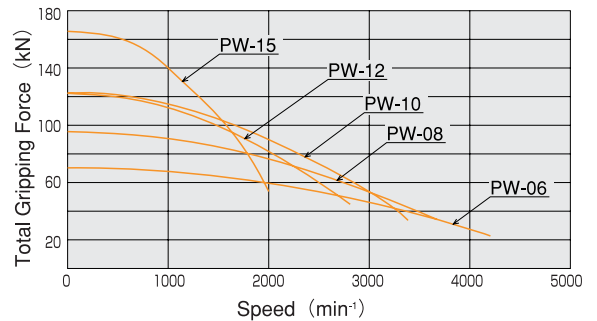


Dimensions

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

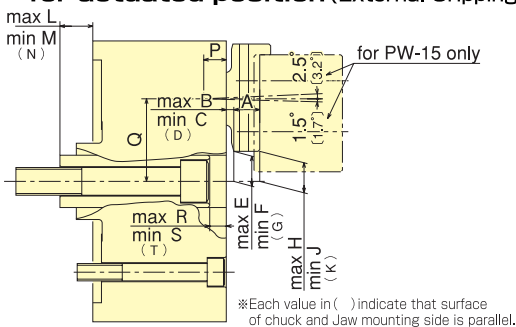
Gripping Performance



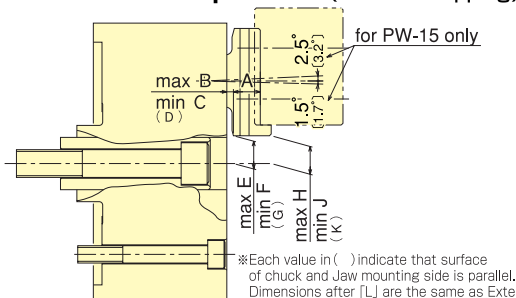
Specifications

Model	Jaw stroke (diameter) mm	Plunger stroke mm	Max. pull force kN(kgf)	Max. gripping force kN(kgf)	Max speed min ⁻¹ (r.p.m)	Mass (with Standard Sort Jaw) kg	Moment of Inertia kg · m ²	Matching cylinder	Max. pressure MPa(kgf/cm ²)	Gripping range		Compensation value for PWC only mm
										external ϕ mm	internal ϕ mm	
PW-06	7.9	11.4	23.3(2376)	70.0(7138)	4200	14.7	0.050	Y1225R	2.30(23.5)	12.7~120	70~152	1.0
PW-08	9.5	14.2	32.0(3263)	96.0(9788)	3700	23.5	0.110	Y1225R	3.09(31.5)	16~152	76~203	1.5
PW-10	12.7	17.5	41.0(4180)	123.0(12540)	3400	39.3	0.265	Y1530R	2.80(28.5)	50~203	85~235	2.0
PW-12	12.7	17.5	41.0(4180)	123.0(12540)	2800	58.3	0.523	Y1530R	2.80(28.5)	63~241	127~305	2.0
PW-15	15.8	22.4	55.0(5607)	165.0(16800)	2000	95.0	1.943	Y2035R	2.14(21.8)	76~317	165~381	3.0

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