

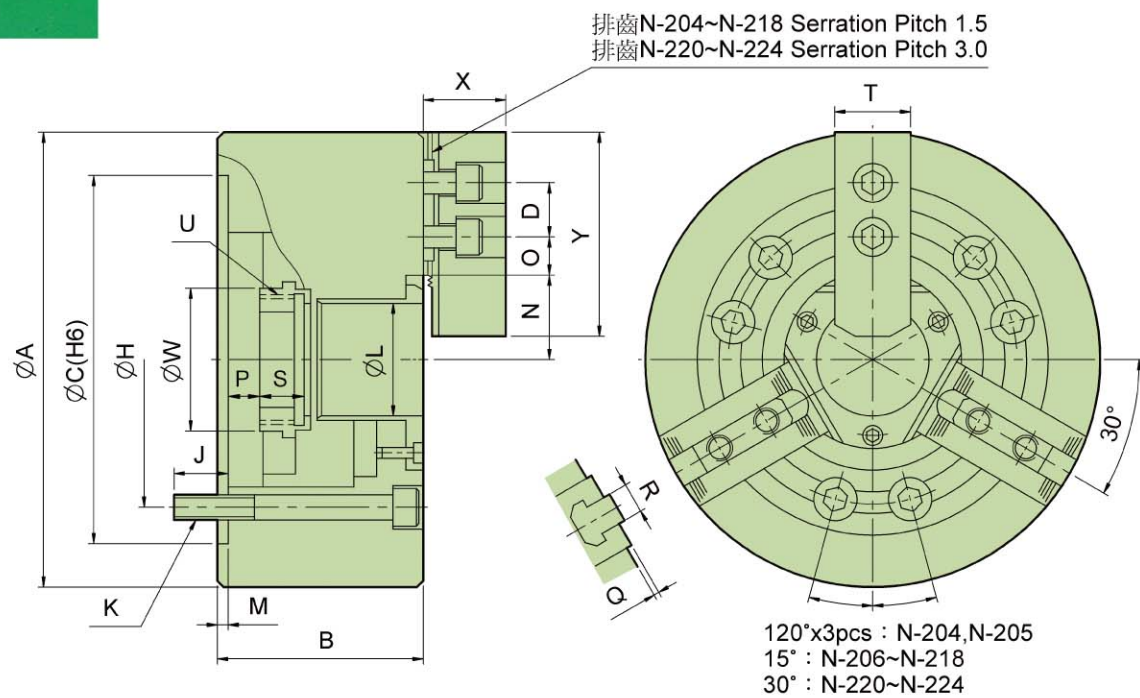


N-200 SERIES

SPECIFICATIONS:

3-JAW WEDGE TYPE THROUGH-HOLE POWER CHUCK (WITHOUT ADAPTOR)

1. More large bore
2. Highest revolution



SPECIFICATIONS:

Model	Through-Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (mm)	Max. Draw Bar Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm ²)	Max. Speed (r.p.m.)	Weight (kg)	Moment of Inertia I (kg·m ²)	Matching Cylinder	Matching Soft Jaw	Matching Hard Jaw	Gripping O.D. Range (mm)
N-204	N26	10	5.4	1428	2906	31.6	8000	4	0.007	M0928	HC04	HJ05	ø 4~ ø110
N-205	N33	10	5.4	1784	3671	28.5	7000	7	0.018	M1036	HC05	HJ05	ø 6~ ø135
N-206	N45	12	5.5	2243	5812	28.5	6000	13.5	0.057	M1246	HC06	HJ06	ø15~ø169
N-208	N52	16	7.4	3558	9075	26.5	5000	23	0.17	M1552	HC08	HJ08	ø20~ø210
N-210	N75	19	8.8	4385	11319	27.5	4200	35	0.315	M1875	HC10	HJ10	ø25~ø254
N-212	N91	23	10.6	5812	14990	27.5	3300	56.5	0.737	M2091	HC12	HJ12	ø30~ø304
N-215	N117.5	23	10.6	7240	18355	23.5	2500	111	2.27	M2511	HC15	HJ15	ø60~ø381
N-218	N117.5	23	10.6	7240	18355	23.5	2000	164	4.45	M2511	HC15	HJ15	ø60~ø450
N-220	N180	23	10.6	9177	23861	30.5	1800	190	6.5	ML2816	HC24-1	HJ24-1	ø120~ø510
N-224	N205	26	12	9177	23861	30.5	1400	270	14.8	ML3320	HC24-1	HJ24-1	ø150~ø610

DIMENSIONS:

Model	A	B	C (H6)	D	H	J	K	L	M	N max.	O max.	O min.	P max.	P min.	Q	R	S	T	U max.	W	X	Y
N-204	110	59	85	14	70.6	16	3-M10x60	26	4	23.2	13.75	6.75	3.5	-6.5	2	10	17.5	23	M32x1.5	38	24	49.5
N-205	135	60	110	14	82.55	15	3-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	25	M40x1.5	45	31	54
N-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
N-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	14.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
N-210	254	100	220	30	171.45	22	6-M16x100	75	5	51	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
N-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
N-215	381	133	300	43	235	35	6-M20x135	117.5	6	82	45.25	16.75	7	-16	5	22	43	62	M130x2	139	66	165
N-218	450	133	300	43	235	35	6-M20x135	117.5	6	82	79.75	16.75	7	-16	5	22	43	62	M130x2	139	66	165
N-220	510	134	380	60	330.2	35	6-M24x135	180	6	112.5	69	23	11	-12	5	25	38	65	M190x2	206	73	180
N-224	610	147	520	60	463.6	35	6-M24x150	205	6	139.9	87.5	24.5	16	-10	5	25	38	65	M215x3	230	73	180

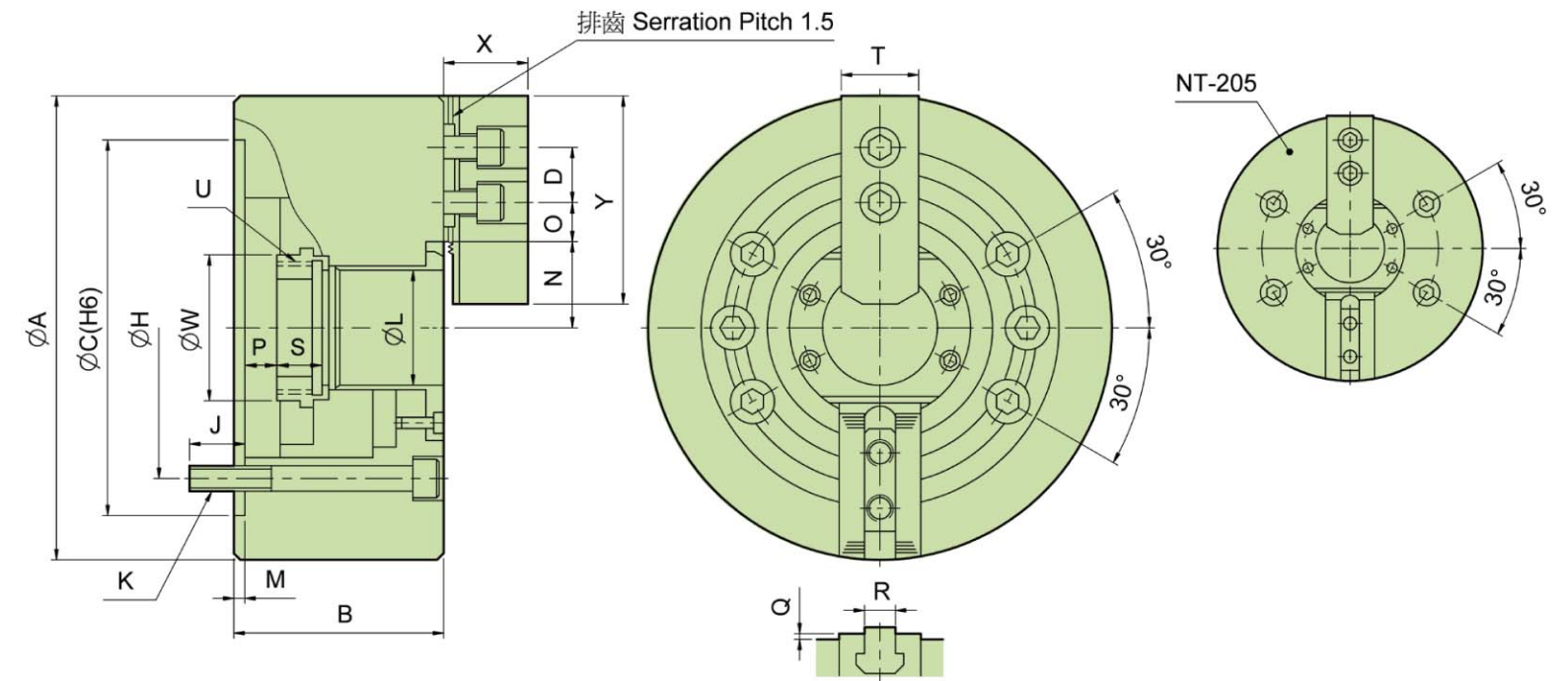


NT-200 SERIES

SPECIFICATIONS:

2-JAW WEDGE TYPE THROUGH-HOLE POWER CHUCK (WITHOUT ADAPTOR)

1. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability. Lubrication nipple in each base jaw.
2. Base jaw: 1.5mmx60° serrtion.
3. Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA B5.9 type A spindles.



SPECIFICATIONS:

Model Dim	Through-Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (in dia) (mm)	Max. Draw Bar Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm ²)	Max. Speed (r.p.m.)	Weight (kg)	Moment of Inertia I (kg·m ²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
NT-205	N33	10	5.4	1189	2447	19.5	7000	6.8	0.017	M1036	HJ05	HC05	ø 6~ ø 135
NT-206	N45	12	5.5	1495	3875	18.9	6000	12.8	0.054	M1246	HJ06	HC06	ø 15~ ø 169
NT-208	N52	16	7.4	2366	5975	18.4	5000	22	0.163	M1552	HJ08	HC08	ø20~ø210
NT-210	N75	19	8.8	2927	7546	18.4	4200	34	0.306	M1875	HJ10	HC10	ø25~ø254
NT-212	N91	23	10.6	3875	9789	18.4	3300	55	0.717	M2091	HJ12	HC12	ø30~ø304
NT-215	N117.5	23	10.6	4823	12236	15.3	2500	106	2.17	M2511	HJ15	HC15	ø60~ø381

DIMENSIONS:

Model Dim	A	B	C (H6)	D	H	J	K	L	M	N max.	O max.	O min.	P max.	P min.	Q	R	S	T	U max.	W	X	Y
NT-205	135	60	110	14	82.55	15	4-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	23	M40x1.5	45	31	54
NT-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
NT-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	14.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
NT-210	254	100	220	30	171.45	22	6-M16x100	75	5	51	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
NT-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
NT-215	381	133	300	43	235	35	6-M20x135	117.5	6	82	45.25	16.75	7	-16	5	22	43	62	M130x2	139	66	165



1. Soft jaws for hydraulic power chucks.
2. Soft jaw for CNC lathe.

HC
SERIES

SPECIFICATIONS:

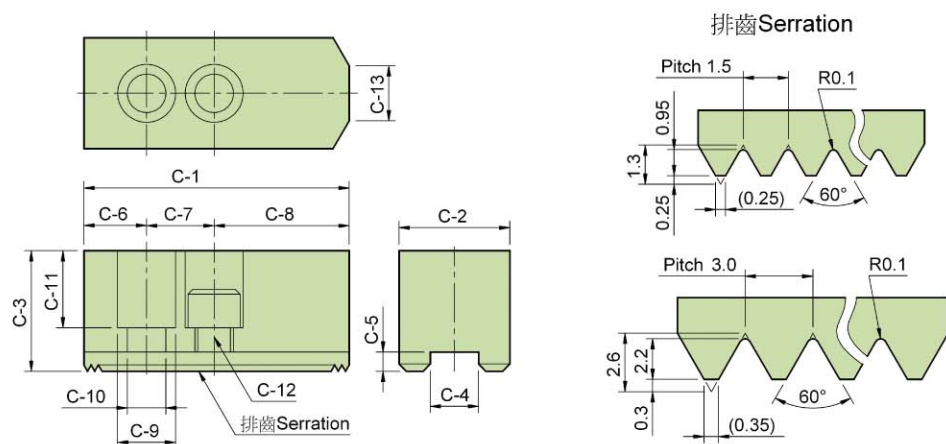
**SOFT JAWS FOR HYDRAULIC
POWER CHUCKS**



T-NUTS
SERIES

SPECIFICATIONS:

SUITABLE FOR POWER CHUCK



SPECIFICATIONS:

UNIT:mm

Dim Model	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Serration Pitch	Matching Chuck	3 Jaw Weight (kg)
HC04	53	23	23	10	5	9	14	30	13.5	9	14	M8	3	1.5x60°	N-204	0.45
HC05	62	25	30	10	5	9	14	39	13.5	9	21	M8	5	1.5x60°	N-205	0.7
HC06	73	31	36	12	5	15	20	38	17	11	21	M10	14	1.5x60°	N-206, V-206	1.5
HC08	95	35	37	14	5	24	25	46	19	13	22	M12	16	1.5x60°	N-208, V-208	2.4
HC10	110	40	42	16	5	30	30	50	19	13	27	M12	18	1.5x60°	N-210, V-210	3.7
HC12	130	50	50	21	5	39	30	61	25	17	30	M16	23	1.5x60°	N-212	6.5
HC15	165	62	62	22	8	37	43	85	32	21	38	M20	-	1.5x60°	N-215, N-218	12.5
HC12-1	130	50	50	18	5	39	30	61	23	15	30	M14	23	1.5x60°	V-212	6.6
HC15-1	165	62	62	25.5	5	37	43	85	32	21	38	M20	-	1.5x60°	V-215, V-218	12.5
HC24-1	180	64	70	25	9	40	60	80	32	21	45	M20	-	3.0x60°	N-220, N-224, V-221, V-224	15.8
HC32-1	210	74	90	25	9	40	80	90	32	21	65	M20	-	3.0x60°	V-232	29.2

Fig. 1

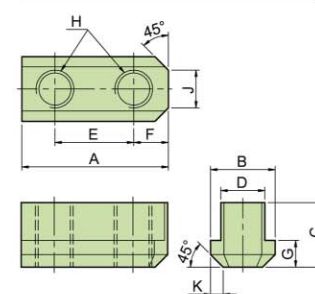


Fig. 2

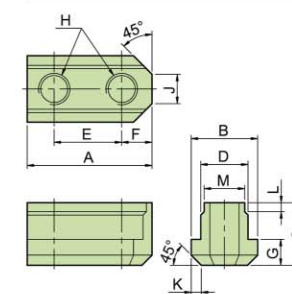
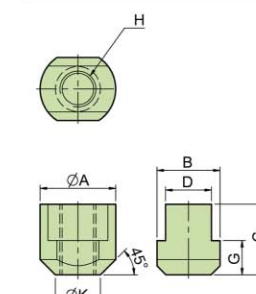


Fig. 3



SPECIFICATIONS:

Model	A	B	C	D	E	F	G	H	J	K	L	M	Fig	Matching Chuck
N0205-OH	26	14.5	15	10	14	6	5.5	M8	5	2	-	-	1	N-204, N-205
N0206-OH	36	17.5	18.5	12	20	8.2	7.5	M10	8	2.5	-	-	1	N-206, NB-306
N0208-OH	46.5	20.5	20.5	14	25	10.5	8.5	M12	12	4	-	-	1	N-208, NB-208
N0210-OH	51	22.5	21.5	16	30	11	8.5	M12	11	3	-	-	1	N-210, NB-210
N0212-OH	55.5	29.5	27.8	21	30	12	11.5	M16	13	4.5	-	-	1	N-212, NB-212
N0215-OH	80	33.5	45.5	24	43	17	16.5	M20	11	5	8	22	2	N-215, N-218
V0206-OH	36.5	17.5	22.5	12	20	7.5	7.5	M10	6	3	-	-	1	V-206, NHT-208
V0208-OH	48	20.5	25.5	14	25	11	9.5	M12	8	4	-	-	1	V-208
V0210-OH	55	22.5	25.5	16	30	11	9.5	M12	8	4	-	-	1	V-210
V0212-OH	55.5	26.5	33.5	18	30	11.5	13.5	M14	12	5	-	-	1	V-212
V0215-OH	42	35	39.2	25.5	-	-	19	M20	-	25	-	-	3	V-215, V-218
V0215-OH1	42	35	41.2	26	-	-	19	M20	-	25	-	-	3	V-215P3.0
V0224-OH	46	37.5	45	25	-	-	19	M20	-	26.5	-	-	3	N-220, N-224, V-221, V-224, V-232



ADAPTERS SERIES

SPECIFICATIONS:

Mounting adapters on short taper spindle noses DIN 55026

Adapters Type1:

Model	Spindle nose	C	F	H	K	E	Matching Chuck
N0205-OJ4	A4	110	63.513	82.55	3-11	15	N-205
N0205-OJ42	A4	110	63.513	82.55	4-11	15	NT-205
N0206-OJ5	A5	140	82.563	104.78	6-11	15	N-206, NB-306, V-206
N0206-OJ52	A5	140	82.563	104.78	6-11	15	NT-206, VT-206
N0208-OJ6	A6	170	106.375	133.35	6-13	17	N-208, NB-208, V-208
N0208-OJ62	A6	170	106.375	133.35	6-13	17	NT-208, VT-208
N0208-OJ64	A6	170	106.375	133.35	4-13	17	NIT-208
NHT0208-OJ6	A6	170	106.375	133.35	6-13	17	NHT-208
N0210-OJ8	A8	220	139.719	171.45	6-17	18	N-210, N-212, NB-210, V-210, V-212
N0210-OJ82	A8	220	139.719	171.45	6-17	18	NT-210, NT-212, VT-210, VT-212
N0210-OJ84	A8	220	139.719	171.45	4-17	18	NIT-210, NIT-212, VIT-212
N0215-OJ11	A11	300	196.869	235	6-21	22	N-215, N-218, NB-212, V-215, V-218
N0215-OJ112	A11	300	196.869	235	6-21	22	NT-215, VT-215
N0215-OJ114	A11	300	196.869	235	4-21	22	NIT-215, VIT-218
V0224-OJ15	A15	380	285.775	330.2	6-25	27	N-220, V-221, V-224, V-232
N0224-OJ20	A20	520	412.775	463.6	6-25	25	N-224, N-232, V-240, V-250

Adapters Type2:

Model	Spindle nose	C	F	H	K	G	V	E	Matching Chuck
N0208-OJ5	A5	170	82.563	104.78	11	133.35	M12	23	N-208, NT-208, NIT-208, NHT-208 NB-208, V-208, VT-208
N0210-OJ6	A6	220	106.375	133.35	13	171.45	M16	25	N-210, NT-210, NIT-210, N-212, NT-212 NIT-212, V-210, VT-210, V-212, VT-212, VIT-212
N0215-OJ8	A8	300	139.719	171.45	17	235	M20	33	N-215, NT-215, NIT-215, N-218, NB-212 V-215, VT-215, V-218, VIT-218
N0220-OJ11	A11	380	196.869	235	21	330.2	M24	41	N-220
N0224-OJ11	A11	520	196.869	235	21	463.6	M24	45	N-224, N-232, V-240, V-250
N0224-OJ15	A15	520	285.775	330.2	25	463.6	M24	42	N-224, N-232, V-240, V-250
V0224-OJ8	A8	380	139.719	171.45	17	330.2	M24	33	V-221, V-224, V-232
V0224-OJ11	A11	380	196.869	235	21	463.6	M24	27	V-221, V-224, V-232
V0263-OJ20	A20	720	412.775	463.6	27	647.6	M30	50	VIT-263, VE-263, VE-279

Adapters Type3:

Model	Spindle nose	C	F	H	K	G	V	W	E	Matching Chuck
N0205-OJ5	A5	110	82.563	104.78	11	82.55	M10	128	32	N-205, NT-205
N0206-OJ6	A6	140	106.375	133.35	13	104.78	M10	168	35	N-206, NT-206, NB-306, V-206, VT-206
N0208-OJ8	A8	170	139.719	171.45	17	133.35	M12	208	40	N-208, NT-208, NIT-208, NB-208 V-208, VT-208
N0212-OJ11	A11	220	196.869	235	21	171.45	M16	278	50	N-210, NT-210, NIT-210, N-212, NT-212, NIT-212 NB-210, V-210, VT-210, V-212, VT-212, VIT-212
N0215-OJ15	A15	300	285.775	330.2	25	235	M20	378	57	N-215, NT-215, NIT-215, N-218, NB-212 V-215, VT-215, V-218, VIT-218
V0224-OJ20	A20	380	412.775	463.6	26	330.2	M24	520	58	N-220, V-221, V-224, V-232



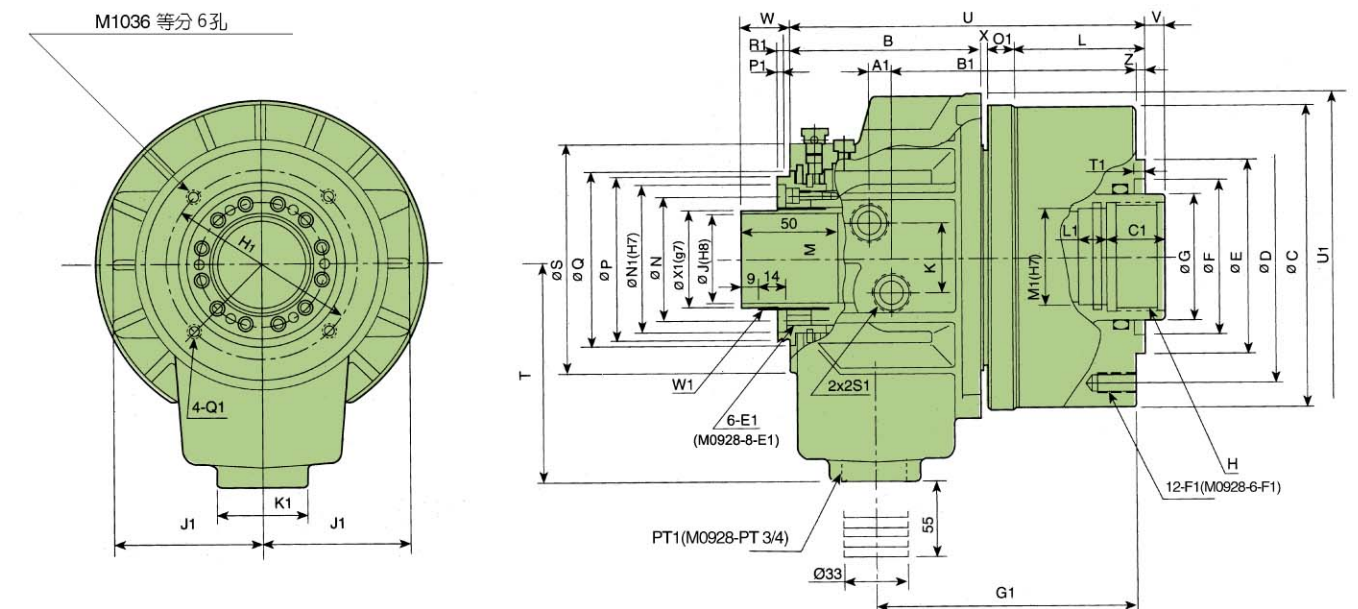
M

SERIES

SPECIFICATIONS:

SUPER HIGH SPEED THROUGH HOLE ROTARY HYDRAULIC CYLINDER

- 1.Small-sized light weight:Comparing with the traditional product, it is small-sized (reduced to MAX 95mm)and a light weight (weighted MAX 4.5kg). Make its capacity more slable to reduce the burden of the machinery at high speed turning.
- 2.The most largest bore:Comparing with the old product, it has about 20% more bore full diameter forutilizing the capacity of machinery.
- 3.The safety mechansim: It can retain the gripping force with a check valve.



DIMENSIONS:

Dim Model	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	O1	P1	Q1	R1	S1	T1	U1	W1	X1	B	C
M0928	25	M6x1.0	M8x1.25	110	76	58	44	15	34	53	14	4	M4x0.7	5	PT 1/4"	5	116	M34x1.5	32	85	120
M1036	25	M5x0.8	M10x1.5	126	88	68	53	15	38	64	14	4	M5x0.8	4	PT 3/8"	6	136	M44x1.5	42	101	136
M1236	25	M6x1.0	M10x1.5	135	98	76	47	15	38	76	14	4	M5x0.8	6	PT 1/2"	6	169	M52x1.5	50	99	154.5
M1246	30	M6x1.0	M10x1.5	135	98	76	47	15	50	76	14	4	M5x0.8	6	PT 1/2"	6	169	M52x1.5	50	99	154.5
M1546	30	M6x1.0	M10x1.5	145	110	86	47	15	50	85	14	4	M6x1.0	7	PT 1/2"	6	187.5	M58x1.5	56	103	190
M1552	30	M6x1.0	M10x1.5	145	110	86	47	15	55	85	14	4	M6x1.0	7	PT 1/2"	6	187.5	M58x1.5	56	103	190
M1868	35	M6x1.0	M10x1.5	166	155	101	47	15	70	108	16	4	M6x1.0	7.5	PT 1/2"	6	220	M84x2	81	126	215
M1870	35	M6x1.0	M10x1.5	166	155	101	47	15	75	108	16	4	M6x1.0	7.5	PT 1/2"	6	220	M84x2	81	126	215
M1875	35	M6x1.0	M10x1.5	166	155	101	47	15	80	108	16	4	M6x1.0	7.5	PT 1/2"	6	220	M84x2	81	126	215
M1878	35	M6x1.0	M10x1.5	166	155	101	47	20	82	108	16	4	M6x1.0	7.5	PT 1/2"	6	220	M84x2	81	126	215
M2085	35	M6x1.0	M12x1.75	182	165	110	47	20	89	120	16	4	M6x1.0	7	PT 1/2"	6	267	M99x2	96	141	240
M2091	35	M6x1.0	M12x1.75	182	165	110	47	15	95	120	16	4	M6x1.0	7	PT 1/2"	6	267	M99x2	96	141	240
M2511	45	M6x1.0	M16x2.0	197	206	129	55	20	123	160	18	5	M6x1.0	7	PT 1/2"	6	294		134.6	186	310

Dim Model	D	E	F	G	H	J	K	L	N	P	Q	S	T	U	V _{max}	V _{min}	W _{max}	W _{min}	x	z	A1	B1
M0928	100	80	65	44	M38x1.5	28	25	54	44	59	65	90	105	156	9	-1	35	25	3	5	9	108
M1036	115	100	65	48	M42x1.5	36	32	62	54	73	80	104	115	179.5	10	-5	39	24	2.5	5	11	120.5
M1236	130	100	80	65	M42x1.5	36	36	67	64	85	90	118	114	184	10	-5	40	25	4	5	11	126.5
M1246	130	100	80	65	M55x2	46	36	67	64	85	90	118	114	184	10	-5	40	25	4	5	11	126.5
M1546	170	130	85	65	M55x2	46	36	75	73	96	102	137	130	196	17	-5	47	25	4	5	11	136
M1552	170	130	85	70	M60x2	52	36	75	73	96	102	137	130	196	17	-5	47	25	4	5	11	136
M1868	190	160	120	85	M75x2	68	36	84	98	121	131	166	160	230	20	-5	50	25	4	5	17.5	152.5
M1870	190	160	120	95	M78x2	70	36	84	98	121	131	166	160	230	20	-5	50	25	4	5	17.5	152.5
M1875	190	160	120	95	M85x2	75	36	84	98	121	131	166	160	230	20	-5	50	25	4	5	17.5	152.5
M1878	190	160	120	95	M87x2	78	36	84	98	121	131	166	160	230	20	-5	50	25	4	5	17.5	152.5
M2085	215	180	140	110	M93x2	85	36	93	108	138	148	182	185	253	25	-5	55	25	3	5	21	166.5
M2091	215	180	140	110	M100x2	91	36	93	108	138	148	182	185	253	25	-5	55	25	3	5	21	166.5
M2511	275	230	166	140	M130x2	117.5	36	89	148	178		232	215	296	18	-5	38	15	3	6	27	184.5

● M SERIES showing back continue.

SPECIFICATIONS:

Dim Model	Piston Dia. (mm)	Piston Area		Piston Stroke (mm)	Mar. Draw Bar Pull Force		Max. Operating Pressure (kgf/cm ²)	Max.Speed (r.p.m.)	Moment Inertia I(kg·m ²)	Weight (kg)	Total Leakage (L/min)
		Push Side (cm ²)	Pull Side (cm ²)		Push Side KN(kgf)	Pull Side KN(kgf)					
M0928	90	53.2	48.3	10	19.9(2029)	18(1835)	40.8	8000	0.006	5.5	3.0
M1036	105	71	68.5	15	24.8(2529)	24(2447)	40.8	8000	0.011	8.6	3.0
M1236	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	13.0	3.0
M1246	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	12.0	3.0
M1546	155	161	154	22	60(6118)	57.8(5894)	40.8	6200	0.056	18	3.9
M1552	155	161	150	22	60(6118)	56(5710)	40.8	6200	0.052	16.8	3.9
M1868	180	198	197	25	74(7546)	73.5(7495)	40.8	4700	0.098	28.0	4.2
M1870	180	198	183	25	74(7546)	69(7036)	40.8	4700	0.095	26.5	4.2
M1875	180	198	183	25	74(7546)	69(7036)	40.8	4700	0.095	26.0	4.2
M1878	180	198	183	25	74(7546)	69(7036)	40.8	4700	0.095	25.5	4.2
M2085	205	252	234	30	94(9585)	88(8973)	40.8	3800	0.15	37.5	4.5
M2091	205	252	234	30	94(9585)	88(8973)	40.8	3800	0.15	37.0	4.5
M2511	250	348	336	23	124(12644)	120(12236)	40.8	2800	0.45	57	7.0



CM.B SERIES

**SPECIFICATIONS:
HYDRAULIC CYLINDERS COOLANT
COLLECTORS**

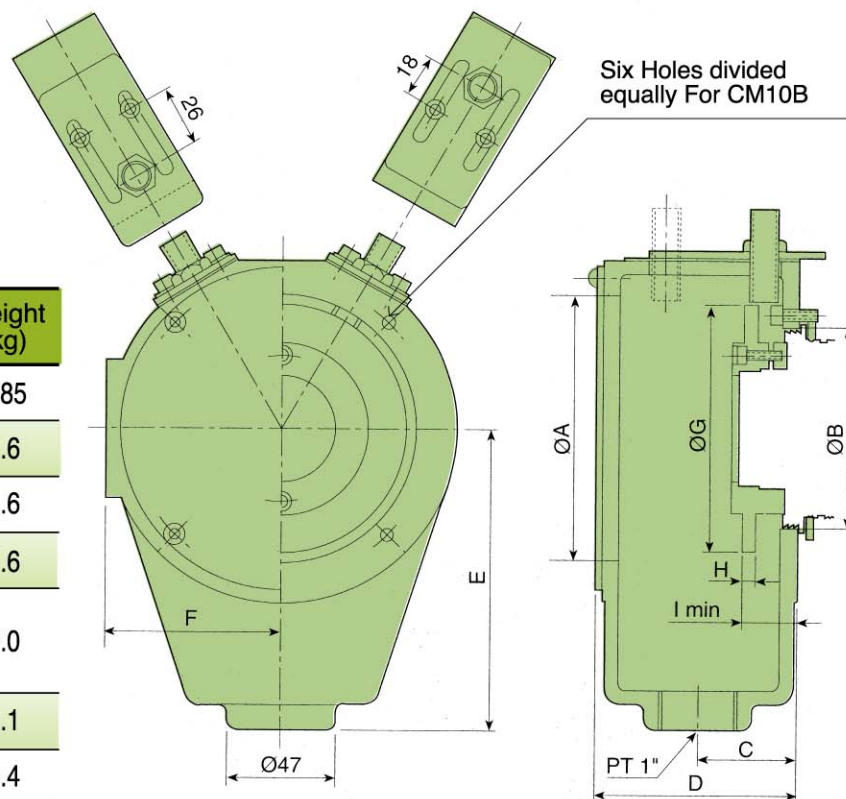
1. Hydraulic Cylinders coolant collectors.

Compact and light weight, they feature bore sizes up to 20% large than Conventional Cylinders. Precision finished piston bores and cool running rotary unions are included for years of trouble-free performance.

2. The sensors are extra ordered.

DIMENSIONS:

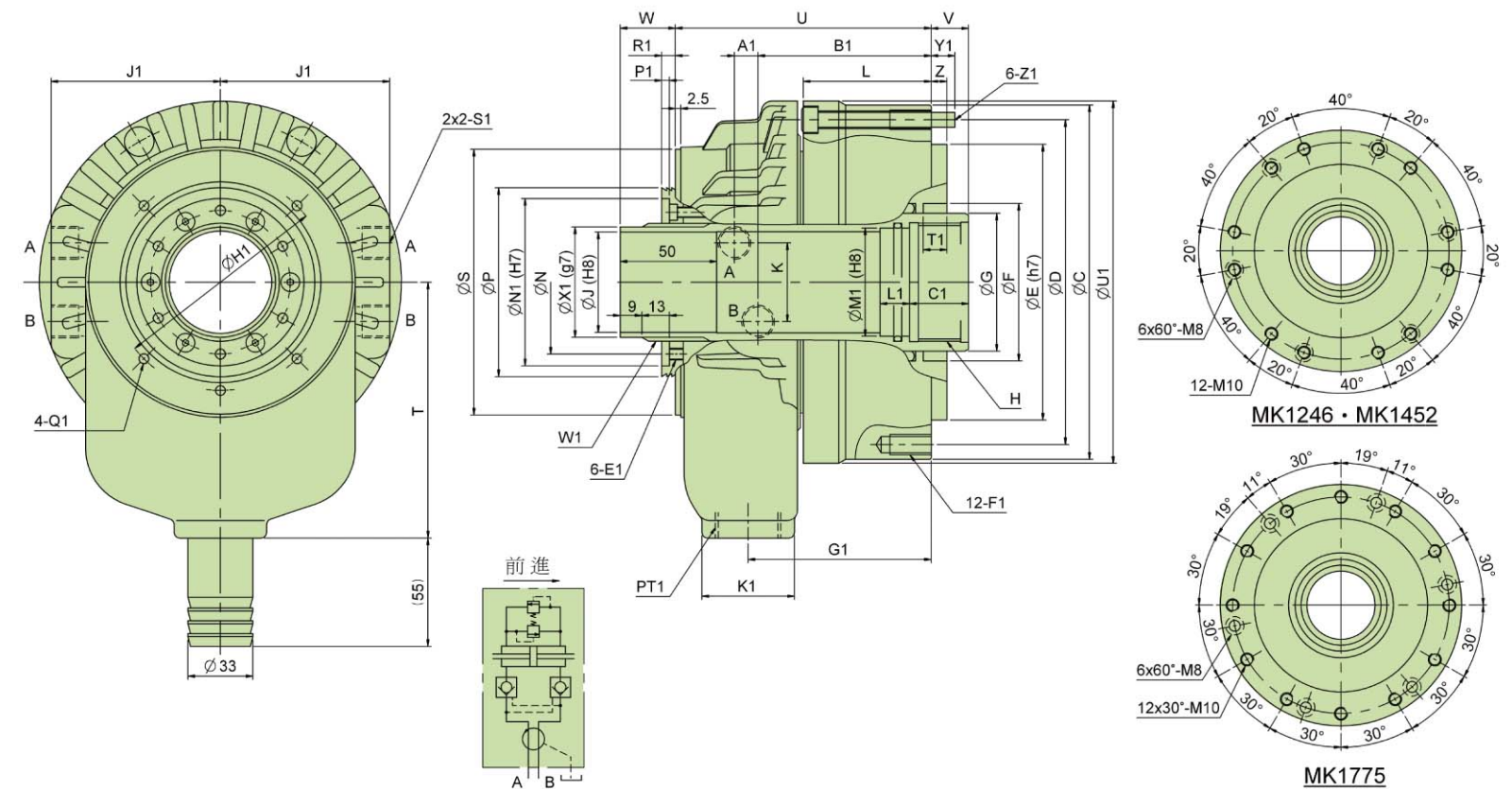
Dim Model	A	B	C	D	E	F	G	H	I min.	Matching cylinder	Weight (kg)
CM09B	85	67	33	70	105	55.5	77	5	24	M0928	0.85
CM10B	118	75	42	84	131	76	107	5	22	M1036	1.6
CM12B	118	87	42	84	131	76	107	5	23	M1236 M1246	1.6
CM15B8	118	98	42	84	131	76	107	5	25.5	M1546 M1552	1.6
CM18B	158	123	44	88.5	151	96	147	5	23	M1868 M1870 M1875 M1878	2.0
CM20B	158	140	44	88.5	151	96	147	5	23	M2085 M2091	2.1
CM25B	198	177	45	90	180	118	192	12	35	M2511	2.4



MK SERIES

**SPECIFICATIONS:
HIGH SPEED AND SHORT THROUGH HOLE
ROTARY HYDRAULIC CYLINDER**

- 1.The thin hydraulic cylinder which is short in length about 30% and eih t light weight can reduce the spindle load while running in high speed.
- 2.Built-in check valve in safety auto lock and pressure relief valve in case of power faure occurs.
- 3.New model developed and rear and locking installation.



SPECIFICATIONS:

Model	Piston Dia (mm)	Piston Area		Piston Stroke	Max. Draw Bar Pull		Max. Operating Pressure (kgf/cm ²)	Max Speed (r.p.m.)	Moment of Inertia I (kg·m ²)	Weight (kg)	Total Leakage (L/min)
		Push Side(cm ²)	Pull Side(cm ²)		Push Side KN(kgf)	Pull Side KN(kgf)					
MK-1246	128	102.6	91.4	16	43.6(4466)	38.9(3967)	4.5(45.9)	8000	0.017	8.6	3.1
MK-1452	145	133	122.6	22	26.5(5761)	52.1(5313)	4.5(45.9)	6500	0.028	12	3.9
MK-1775	170	166	152	25	70.7(7209)	64.7(6587)	4.5(45.9)	5500	0.060	17.8	4.5

DIMENSIONS:

Model	C	D	E	F	G	H	J	K	L	N	P	S	T	U	V Max.	V MIN.	W Max.	W MIN.	Z
MK-1246	162	147	130	75	65	M 5.5 x 2.0	46	40	58	64	85	116	120	120	13	-3	44	28	8
MK-1452	184	165	140	80	70	M 6.0 x 2.0	52	40	66	73	96	135	130	130	19	-3	47	25	8
MK-1775	212	195	160	105	90	M 8.5 x 2.0	75	46	71	98	121	164	160	157	22	-3	50	25	8

Model	A1	B1	C1	E1	F1	G1	H1	J1	K1	L1	M1	M1	N1	P1	Q1	R1	S1	T1	U1	W1	X1	Y1	Z1
MK-1246	8.5	79.5	25	M6x10L	M10x20L	84	98	76	47	15	50	50	76	4	M5x6L	9	PT3/8	12	165	M52x1.5	50	15	M8
MK-1452	9	88	30	M6x7L	M10x20L	93	110	86	47	15	55	55	85	4	M6x6L	7	PT3/8	12	184	M58x1.5	56	12	M8
MK-1775	17.5	99	30	M6x13L	M10x20L	110	155	100	47	15	80	80	108	4	M6x10L	7	PT1/2	12	216	M84x2.0	81	18	M10