

HS Standard 3-Jaw High-Speed Open Center Chuck



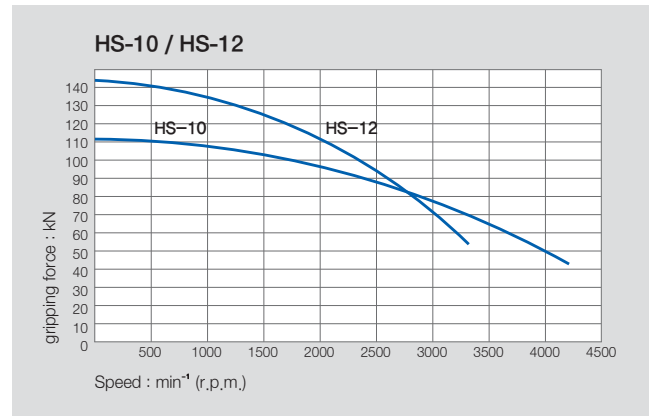
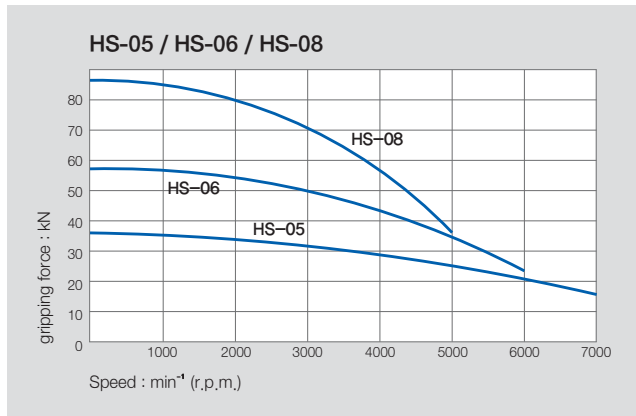
Application / Benefits

For work requiring a through hole

Technical features

Wedge hook style chuck with high gripping force

ACTUAL GRIPPING FORCE DIAGRAM

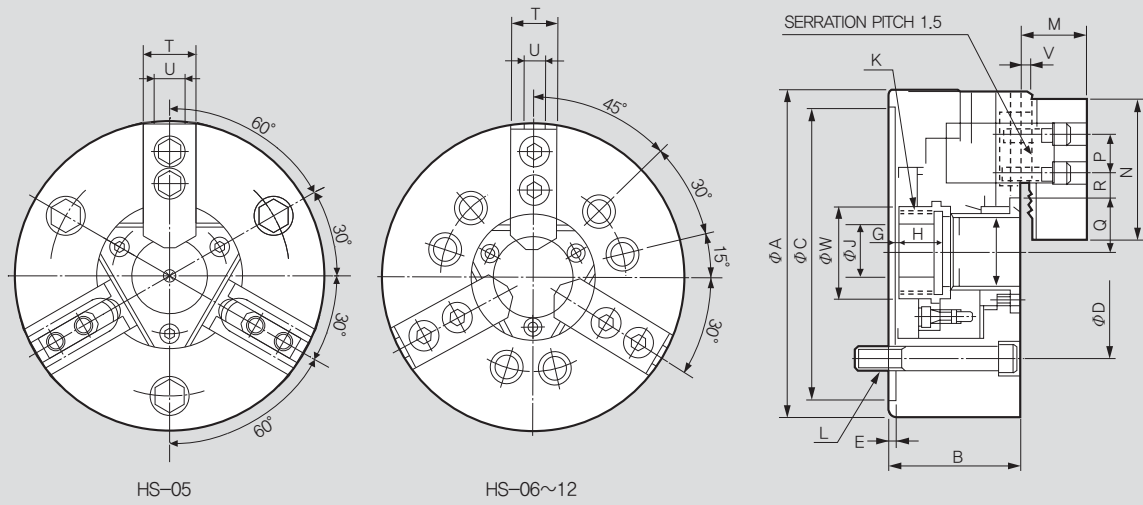


SPECIFICATIONS

	HS-05	HS-06	HS-08	HS-10	HS-12
Thru Hole Dia. [mm]	33	46	52	77	91
Grip Dia. Max [mm]	135	169	210	254	304
Grip Dia. Min [mm]	12	15	13	31	34
Jaw Stroke Dia. [mm]	5.4	5.5	7.4	8.8	10.6
Plunger Stroke [mm]	10	12	16	19	23
Permissible Input Force [kN(kgf)]	17.5(1784)	22(2243)	34.8(3549)	43(4385)	55(5608)
Max. Static Gripping Force [kN(kgf)]	36(3671)	57(5812)	86(8769)	111(11319)	144(14686)
Max. r.p.m. [min ⁻¹]	7000	6000	5000	4200	3300
Weight [kg]	6.7	11.9	22.3	34.5	55.3
Moment of inertia [N · m ² (kg · m ²)]	0.69(0.07)	2.26(0.23)	6.67(0.68)	12.36(1.26)	28.93(2.95)
Operating Cylinder	SH-10036	SH-13046 (SYH-1246)	SH-15052 (SYH-1552)	SH-18077 (SYH-1877)	SYH2091
Max. Hydraulic Pressure [MPa(kgf/cm ²)]	2.9(30)	2.8(28.6)	2.65(27)	2.7(27.5)	2.7(27.5)
Operating Hard Jaw	HB04N1	HB06A1	HB08A1	HB10A1	HB12N1
KITAGAWA® Model	B-205	B-206	B-208	B-210	B-212

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

	HS-05	HS-06	HS-08	HS-10	HS-12
ΦA	135	169	210	254	304
B	60	81	91	100	110
$\Phi C(H6)$	110	140	170	220	220
ΦD	82.6	104.8	133.4	171.4	171.4
E	4	5	5	5	6
ΦF	33	46	52	77	91
G max.	1	11	14.5	8.5	8
G min.	-9	-1	-1.5	-10.5	-15
H	20	19	20.5	25	28
ΦJ	12	20	30	45	50
K max.	M40x1.5	M55x2.0	M60x2.0	M85x2.0	M100x2.0
L	3-M10x60	6-M10x95	6-M12x105	6-M16x120	6-M16x130
M	26	29	39	43	50.5
N	54	72	95	110	111
P	14	20	25	30	30
Q max.	26.5	32	38.7	51	61.3
Q min.	23.8	29.25	35	46.6	56
R max.	19.75	22.75	29.75	33.75	45.75
R min.	7.75	9.25	14.75	14.25	15.75
T	23	31	35	40	49
U	10	12	14	16	21
V	2	2	2	2	2
ΦW	45	60	66	94	108

※ Blank and machined draw-nuts are available.

RELATED PRODUCT



Soft Jaw

Power Chuck Soft Jaw



Application / Benefits

Works with HC.

Fig. 1

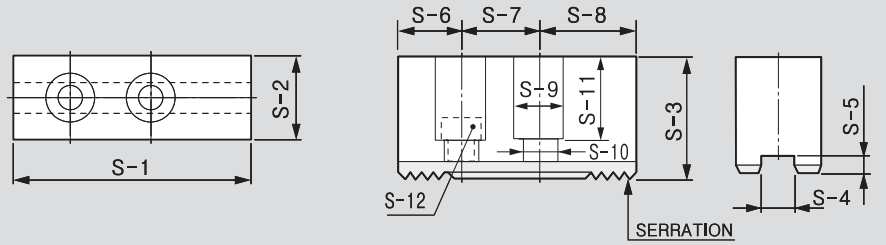


Fig. 2

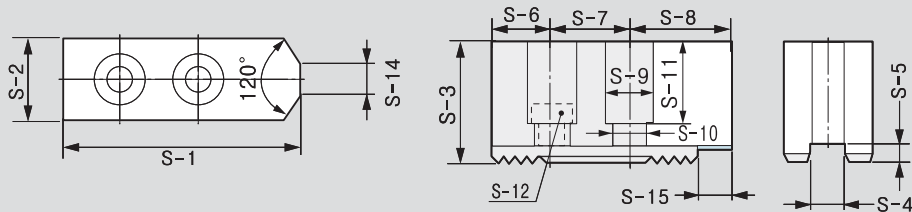
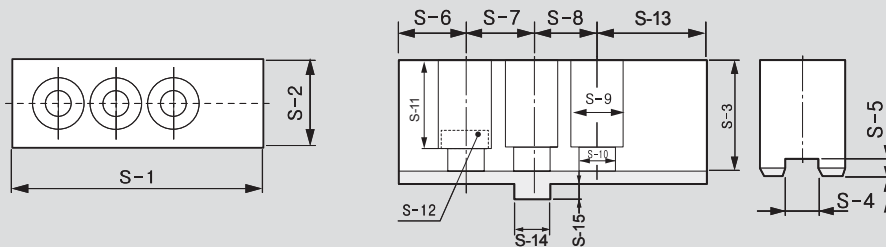


Fig. 3



※ See the product dimension Table on the right.

DIMENSIONS

	SB04C1	SB05N1	SB06B1	SB08B1	SB10B1	SB12A1	SB12N1	SB15C1
Fig.	2	2	2	2	2	1	1	1
Serration Pitch	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°
S-1	48	54	72	95	110	129	111	165
S-2	19	23	31	35	40	50	50	62
S-3	23	25	32	38	42	50	50	66
S-4	8	10	12	14	16	18	21	22
S-5	3	4	5	5	5	5	4	8
S-6	8	12	15	24	30	39	21	37
S-7	15	14	20	25	30	30	30	43
S-8	25	28	37	46	50	60	60	85
S-9	11	13.5	17	19	19	23	25	32
S-10	7	8.5	11	13	13	15	17	21
S-11	15	16.5	20	23	27	30	33	42
S-12	M6x16	M8x20	M10x30	M12x35	M12x35	M14x45	M16x40	M20x60
S-13	-	-	-	-	-	-	-	-
S-14	6	5	12	12	15	-	-	-
S-15	-	-	-	-	20	-	-	-
Corresponding	HCH-04	HS/HC-04,05	HS/HCH/HC-06, MH-206, UR-175	HCH/HC/HS-08, MH-208, UR-210	HCH/HC/HS-10, MH-210, UR-250	HC/HCH-12	HS-12, MH-212 UR-315	HCH-15 HCH-18

	SB15N1	SB15A2	SB18A2	SB32B2	SB32GB	SB32SB2	SB40GB	SB40SB2
Fig.	1	1	1	1	3	1	3	1
Serration Pitch	1.5x60°	3.0x60°	3.0x60°	3.0x60°	-	3.0x60°	-	3.0x60°
S-1	135	165	180	160	165	185	270	270
S-2	50	62	65	75	75	75	110	110
S-3	60	66	70	75	83	75	117	110
S-4	25.5	22	25	25.5	12.7	25.5	30	30
S-5	5	8	9	7	13	7.5	13	7.5
S-6	26	30	40	25	21.9	26.8	48.8	32.5
S-7	43	50	60	38	76.2	38.1	76.2	60
S-8	66	85	80	97	-	82	76.2	-
S-9	32	32	32	32	32	32	39	39
S-10	21	21	21	22	22	22	26	26
S-11	39	42	45	54	59	57	90	90
S-12	M20x55	M20x60	M20x60	M20	M20	M20	M24	M24
S-13	-	-	-	-	-	82	68.8	117.5
S-14	-	-	-	-	19.025	-	19.025	-
S-15	-	-	-	-	-	-	-	85
Corresponding	HC-15, HC-18	MH-218	HC/HCH-21, HC/HCH-24, MH-221,224	HCH-32 [Serration]	HC-32 [Groove]	HC-32S [Serration]	HC-40 [Groove] /50,55,63,70,80	HC-40 [Serration] /50,55,63,70,80

Hard Jaw

Power Chuck Hard Jaw



Application / Benefits

Works with HC.

Fig. 1

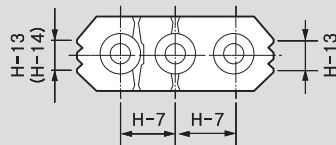


Fig. 2

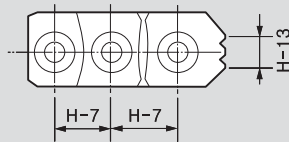
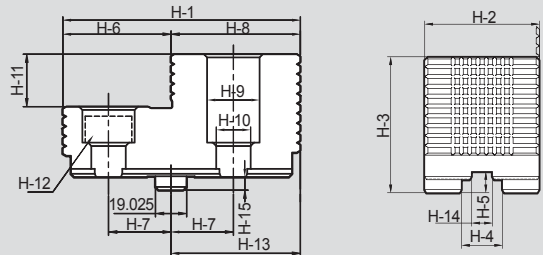
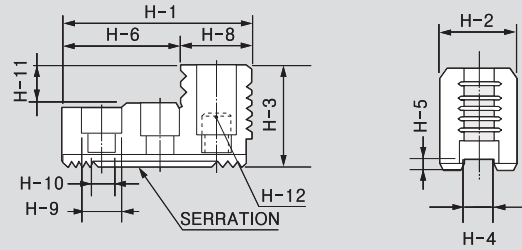
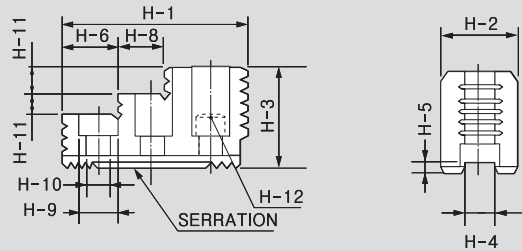
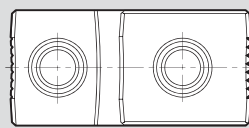


Fig. 3



※ See the product dimension Table on the right.

DIMENSIONS

	HB04N1	HB06A1	HB08A1	HB10A1	HB12B1	HB12N1	HB15A1	HB15A2
Fig.	2	1	1	1	2	2	1	1
Serration Pitch	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	1.5x60°	3.0x60°
H-1	53	67	86	99.5	97.5	103	149	149
H-2	23	31	35	40	50	50	62	62
H-3	27.5	41	51	54	55	52	86	86
H-4	10	12	14	16	18	21	22	22
H-5	4	5	5	5	5	4	9	9
H-6	30.5	18	31	43	64.5	62.5	63	63
H-7	14	20	25	30	30	30	43	50
H-8	22.5	17	18	17	33	40.5	34	34
H-9	13.5	17	19	19	22	25	32	32
H-10	8.5	11	13	13	15	17	21	21
H-11	10	9	12	13	20	17	20	20
H-12	M8	M10	M12	M12	M14	M16	M20	M20
H-13	6	10	12	15	18	30	40	40
H-14	-	10	12	15	-	-	40	40
H-15	-	-	-	-	-	-	-	-
Corresponding	HS-04, HS-05	HC/HCH/HS-06, MH-206, UR-175	HC/HCH/HS-08, MH-208, UR-210	HC/HCH/HS-10, MH-210, UR-250	HC/HCH-12	HS-12, MH-212 UR-315	HCH-15, HCH-18	MH-218

	HB15N1	HB18B2	HB32B2	HB32GB	HB32SB2	HB40GB	HB40SB2	-
Fig.	1	2	2	3	2	3	2	-
Serration Pitch	1.5x60°	3.0x60°	3.0x60°	-	3.0x60°	-	3.0x60°	-
H-1	149	159.5	150	150	168	223	223	-
H-2	62	80	70	70	70	80	80	-
H-3	86	90	75	83	75	124	117	-
H-4	25.5	25	25.5	25	25.5	30	30	-
H-5	5	9	7	13	7.5	15	8	-
H-6	69	104.5	66	66	89	133	133	-
H-7	43	50	76.2	38.1	38.1	38.1	114.3	-
H-8	27	55	79	79	79	90	90	-
H-9	32	32	32	32	32	39	39	-
H-10	21	21	21	21	21	26	26	-
H-11	20	40	32	32	32	55	55	-
H-12	M20	M20	M20	M20	M20	M24	M24	-
H-13	43	55	-	79	-	83	-	-
H-14	38	-	-	12.7	-	-	-	-
H-15	-	-	-	8	-	7	-	-
Corresponding	HC-15, HC-18	HC/HCH-21, HC/HCH-24, MH-221,224	HCH-32 [Serration]	HC-32 [Groove]	HC-32 [Serration]	HC-40[Groove] 50,55,63,70,80	HC-40[Serration] 50,55,63,70,80	-

T-NUT

Power Chuck T-Nuts



Application / Benefits

Power Chuck T-Nut

Fig. 1

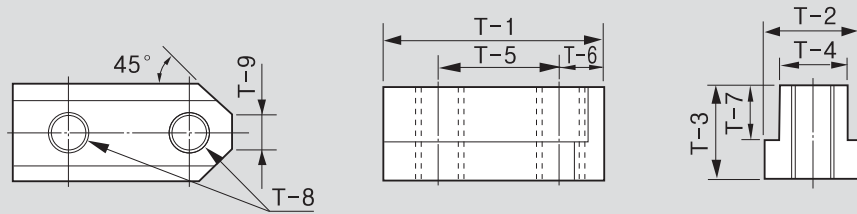


Fig. 2

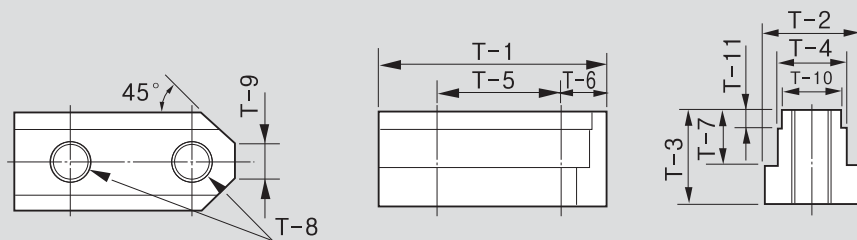
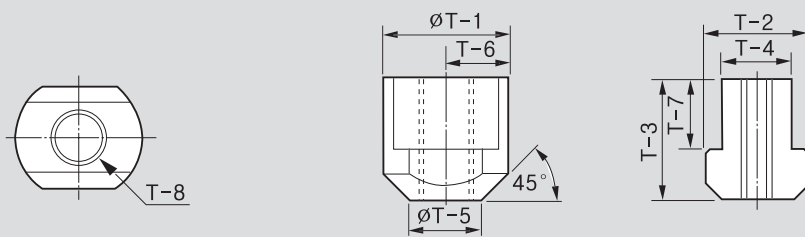


Fig. 3



※ See the product dimension Table on the right.

DIMENSIONS

	TN-HCH-04	TN-HS-04, TN-HS-05	TN-HC-04	TN-HC-05	TN-HS-06	TN-HCH, TN-HC-06	TN-HS-08	TN-HCH, TN-HC-08	TN-HS-10	TN-HCH, TN-HC-10
Fig.	1	1	1	1	1	1	1	1	1	1
T-1	24.5	26	28	32	36	36.5	46.5	48	51	55
T-2	11.5	15	15	15	17.5	17.5	20.5	20.5	22.5	22.5
T-3	13.5	15	18	18	18.5	22.5	20.5	25.5	21.5	25.5
T-4	8	10	10	10	12	12	14	14	16	16
T-5	15	14	14	19	20	20	25	25	30	30
T-6	4.5	6	7	6	8.25	7.5	10.5	11	11	11
T-7	9	9.5	12.5	12.5	11	15	12	16	13	16
T-8	M6	M8	M8	M8	M10	M10	M12	M12	M12	M12
T-9	5	5	5	6	8	6	12	8	11	8
T-10	-	-	-	-	-	-	-	-	-	-
T-11	-	-	-	-	-	-	-	-	-	-
Corresponding	HCH Type of 4" Chuck	HS Type of 4", 5" Chuck	HC Type of 4" Chuck	HC Type of 5" Chuck	HS/MH/UR Type of 6" Chuck	HCH/HC Type of 6" Chuck	HS/MH/UR Type of 8" Chuck	HCH/HC Type of 8" Chuck	HS/MH/UR Type of 10" Chuck	HCH/HC Type of 10" Chuck

	TN-HS-12	TN-HCH, TN-HC-12	TN-HCH-15, TN-HCH-18	TN-HC-15, TN-HC-18	TN-MH-218	TNX-HC-21, TNX-HC-24	TN-HCH-32	TN-HC-32	TN-HC-40
Fig.	1	1	2	1	2	3	3	3	3
T-1	55.5	55.5	80	80	80	46	35	37	42
T-2	29.5	26.5	33.5	35	33.5	37.5	35	37.5	42.5
T-3	27.75	33.5	45.5	49	45.5	45	39.5	47.5	49.5
T-4	21	18	24	25.5	24	25	25.5	25.5	30
T-5	30	30	43	43	50	26.5	25	-	-
T-6	12	11.5	17	17	17	23	-	-	-
T-7	16.25	20	29	20	29	26	20.5	28.5	30.5
T-8	M16	M14	M20	M20	M20	M20	M20	M20	M24
T-9	13	12	11	11	16	-	-	-	-
T-10	-	-	22	-	-	-	-	-	-
T-11	-	-	7.5	-	-	-	-	-	-
Corresponding	HS/MH Type of 12" Chuck	HCH/HC Type of 12" Chuck	HCH Type of 15", 18" Chuck	HC Type of 5", 18" Chuck	MH-218	HC/HCF-21,24 HCH/HCHF- 21,24(H), MH-221(H)	HCH-32	HC-32	HC-40

※ TNX-HC-21-24, TNX-HC-32 require two T-nuts per jaw.

※ TNX-HC-40 require three T-nuts per jaw.



Samchully Grease
Item No: SW-20

Important for maintenance and safe operation.

- Fortified with molybdenum disulfide (MoS₂)
- Maximum extreme-pressure protection
- Exceptional adhesion & cohesion characteristics
- Superior friction-reduction properties-protects against friction-related heat & wear
- Excellent resistance to water washout & spray off
- Reduces maintenance & downtime
- Reduces operating temperatures
- Extends equipment life.

Adaptor Plates

Power Chuck Adaptor Plates



Application / Benefits
Power Chuck Adaptor Plates

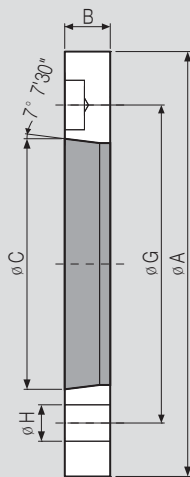


Fig. 1 : Direct Type

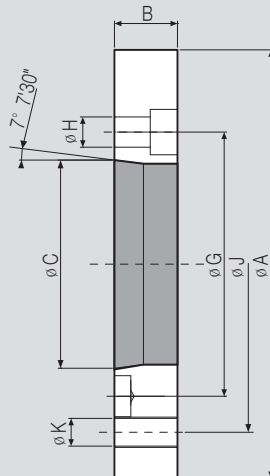


Fig. 2 : Indirect Type

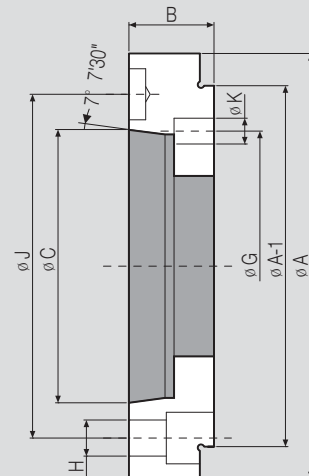


Fig. 3 : Plate Type

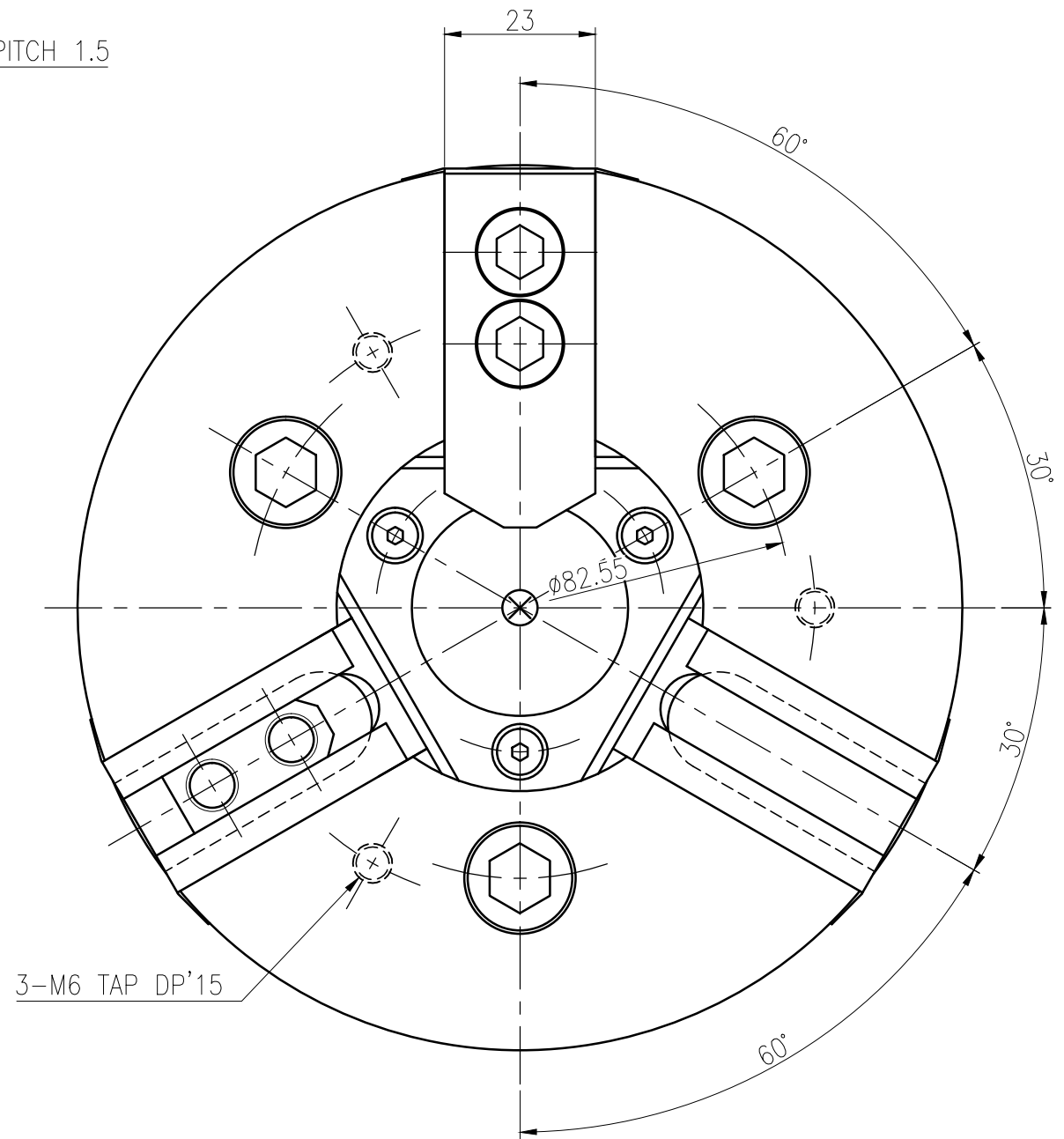
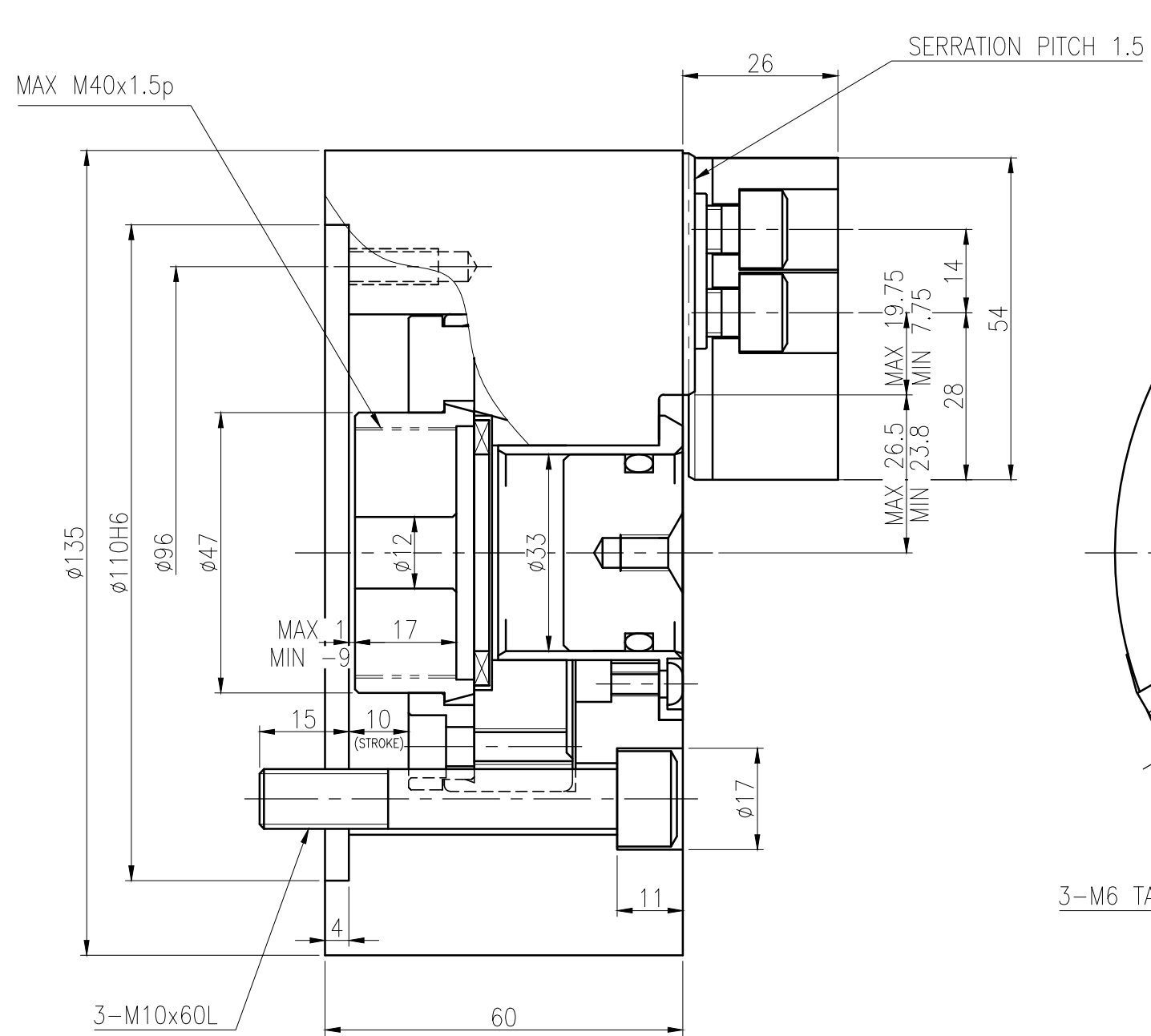
※ See the product dimension Table on the right.

DIMENSIONS

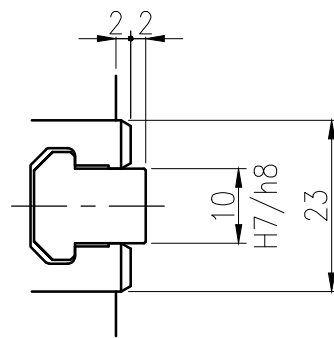
	Fig.	Spindle Nose	A	B	C	G	H	Corresponding	
AP06A05	1	A2-5	140	15	82.563	104.78	12	HS/HSL/HCH/HC/HCL-06, MH-206, UR-175	
APT06A05	1	A2-5	140	15	82.563	104.78	12	HST/HCT/HCLT-06, MHT-206	
AP08A06	1	A2-6	170	17	106.375	133.35	13.5	HS/HSL/HCH/HC/HCL-08, MH-208, UR-210	
APT08A06	1	A2-6	170	17	106.375	133.35	13.5	HST/HCT/HCLT-08, MHT-208	
APF08A06	1	A2-6	170	17	106.375	133.35	13.5	HSF/HCF/HCLF-08, MHF-208	
AP10/12A08	1	A2-8	220	18	139.719	171.45	18	HS/HSL/HCH/HC/HCL-10,12, MH-210, UR-250	
APT10/12A08	1	A2-8	220	18	139.719	171.45	17	HST/HCT/HCLT-10,12	
APF10/12A08	1	A2-8	220	18	139.719	171.45	18	HSF-10,12, HCF/HCLF-12	
AP212A08	1	A2-8	300	22	139.719	235	21	MH-212, UR-315	
AP212A11	1	A2-11	300	22	196.87	235	21	MH-212	
AP15A11	1	A2-11	300	22	196.87	235	21	HCH-15, HC-15,18	
APT15A11	1	A2-11	300	22	196.87	235	21	HCHT-15	
APF15A11	1	A2-11	300	22	196.87	235	21	HCHF-15, HCF-15,18	
AP18A11	1	A2-11	380	22	196.87	235	21	HCH-18	
APF18A11	1	A2-11	380	22	196.87	235	21	HCHF-18	
AP21/24A15	1	A2-15	380	27	285.775	330.2	24	HCH/HC-21,24, MH-221,224	

	Fig.	Spindle Nose	A	B	C	G	H	J	K	Corresponding
AP08A05	2	A2-5	170	25	82.563	104.78	12	133.35	M12	HS/ HST/ HSF/ HSL/ HCH/ HC/ HCT/ HCF/ HCL/ HCLT/ HCLF-08, MH/ MHT/ MHF-208
AP10/12A06	2	A2-6	220	25	106.375	133.35	13.5	171.45	M16	HS/ HST/ HSF/ HSL/ HCH/ HC/ HCT/ HCL/ HCLT-10,12, MH-210, HCF/ HCLF-12
AP15A08	2	A2-8	300	33	139.719	171.45	18	235	M20	HCH/ HCHT/ HCHF-15, HC/HCF-15,18
AP218A15	2	A2-15	380	60	285.775	330.2	24	300	M20	MH-218
AP21/24A11	2	A2-11	380	27	196.87	235	21	330.2	M22	HCH/ HC-21,24, MH-221,224
AP21/24A11	2	A2-11	380	42	196.87	235	22	330.2	M22	HCH/ HCHF/ HC/ HCF-21,24, MH-221,224
AP21/24A11	2	A2-11	380	42	196.87	235	22	330.2	M24	HC/HCF-32, HCH/HCHF/HC-21N,24N
AP21/24A15	2	A2-15	380	42	285.775	330.2	24	330.2	M22	HCH/ HC-21,24, MH-221,224
AP32A15	2	A2-15	380	42	285.775	330.2	26	330.2	M24	HC-32
AP32/40A11	2	A2-11	520	50	196.87	235	22	463.6	M24	HCH-32, HC-40, HC-50
AP32/40A15	2	A2-15	520	42	285.775	330.2	26	463.6	M24	HCH-32, HC-40, HC-50

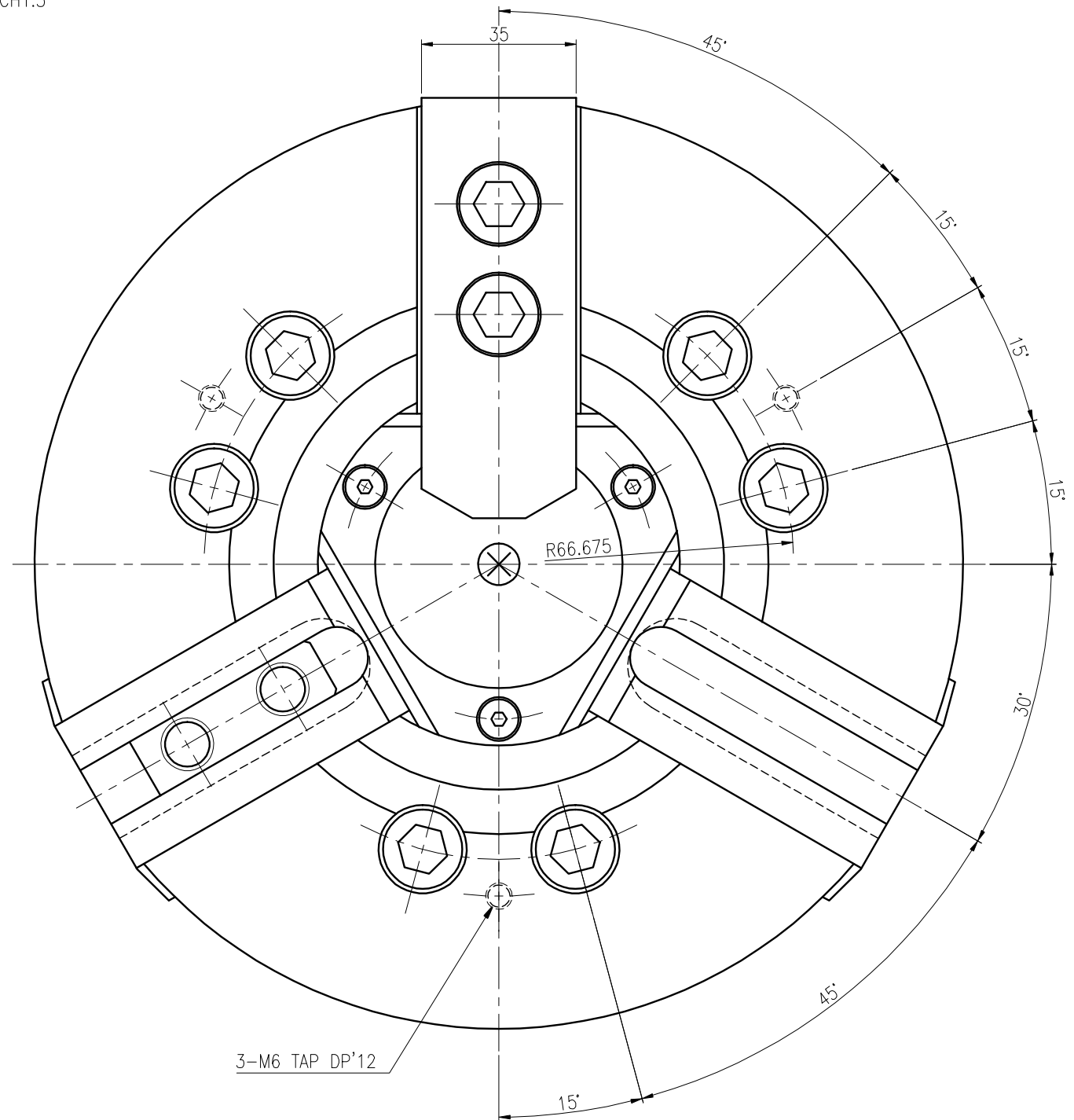
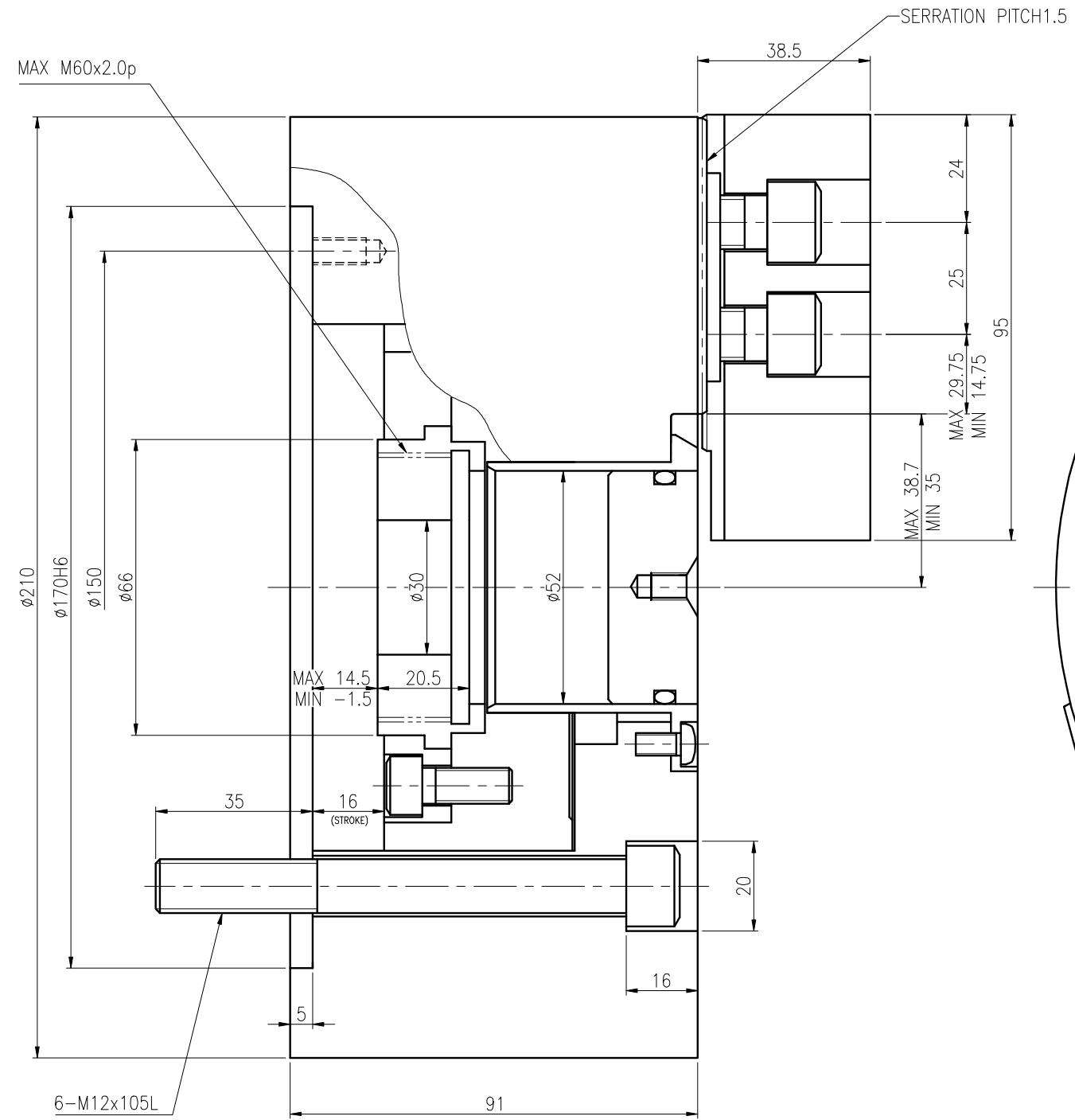
	Fig.	Spindle Nose	A	A-1	B	C	G	H	J	K	Corresponding
AP06A06	3	A2-6	165	140	33	106.375	133.35	14	104.78	M10	HS/ HSL/ HCH/ HC/ HCL-06, MH-206
AP08A08	3	A2-8	210	170	30	139.719	171.45	18	133.35	M12	HS/ HST/ HSF/ HSL/ HCH/ HC/ HCT/ HCF/ HCL/ HCLT/ HCLF-08, MH/ MHT/ MHF-208



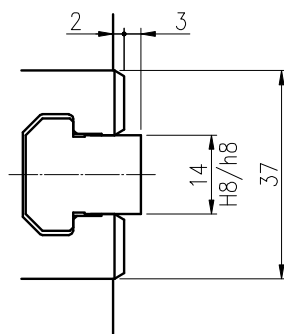
SPECIFICATION	
PLUNGER STROKE	10 mm
JAW STROKE (직경)	5.4 mm
PLUNGER 허용추력	1,784 kgf
최대 파악력	3,671 kgf
최고 회전수	7,000 r.p.m.
WEIGHT (SOFT JAW 포함)	6.7 kgf
G·D ² (SOFT JAW 포함)	0.07 kgf·m ²
최고회전중 파악력	1,224 kgf
적용 CYLINDER	SH-10036
최대설정유압력	30kg/cm ²



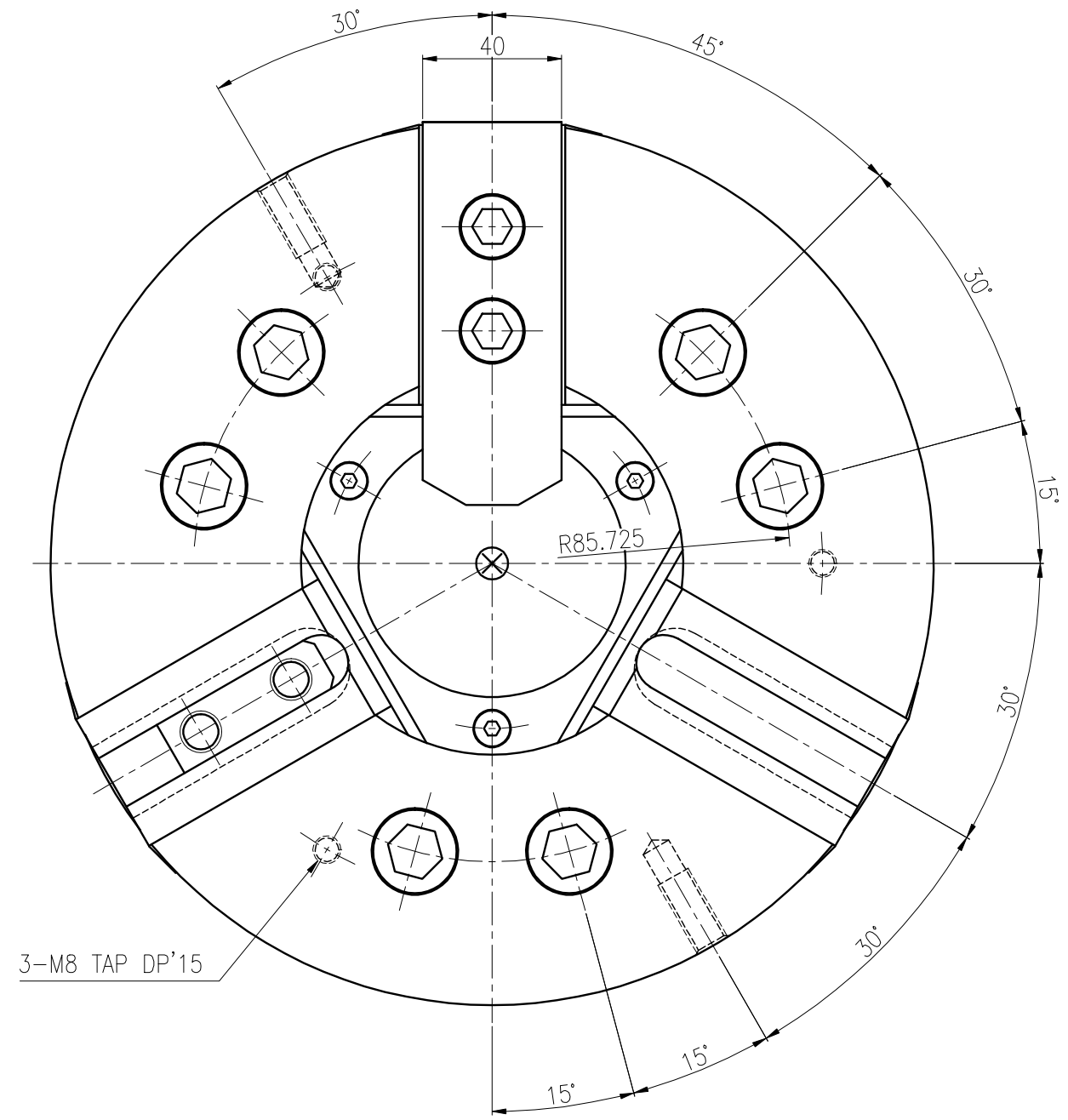
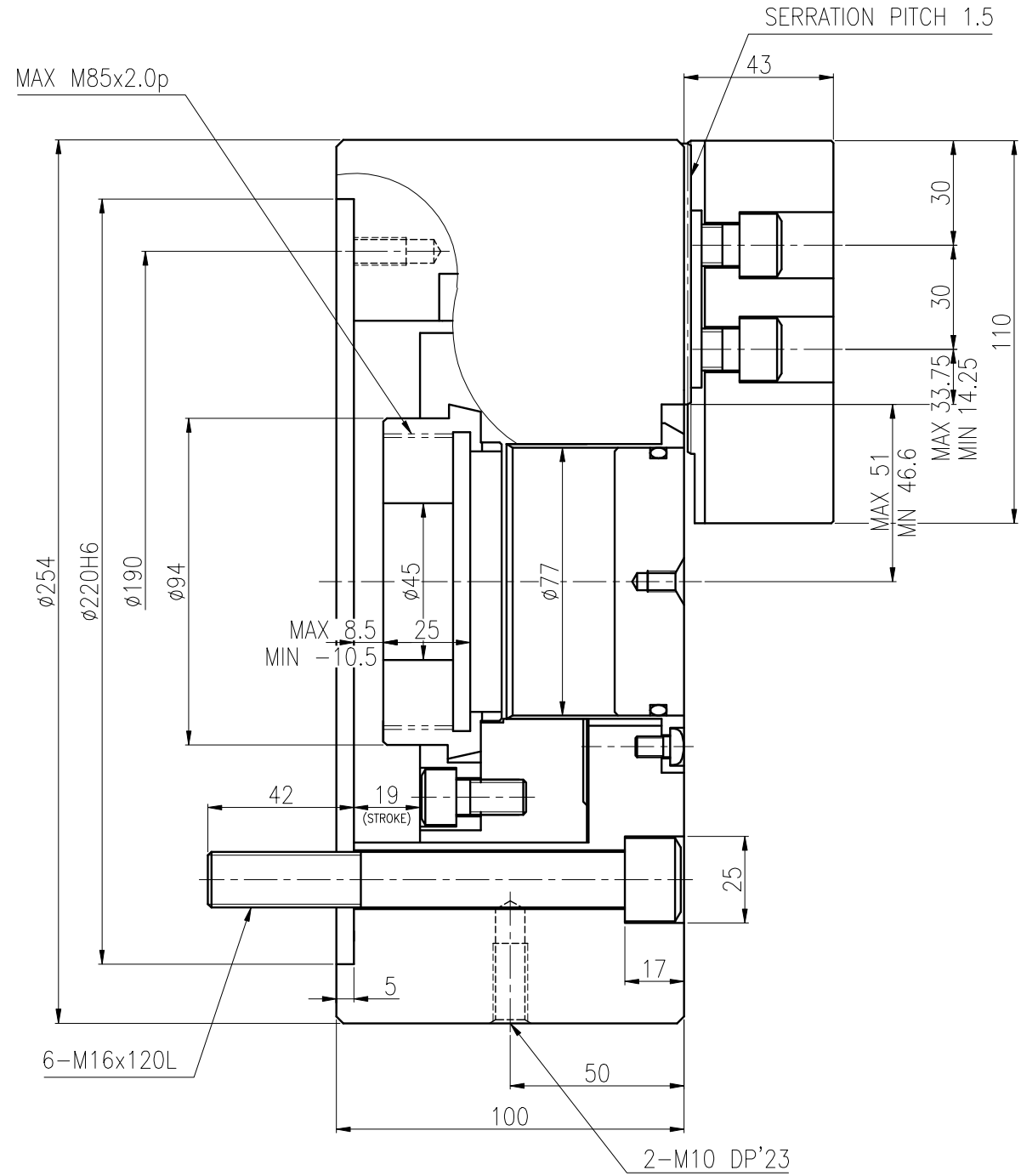
순번	-	규격	-	부품명	외형도
분류	초고속 중공 유압척			납품처	
도번	HS-05-WEB			사용처	
투상				날짜	
3각법				척업삼현리 SAMCHULLY <small>MECHANICAL CO., LTD.</small>	
척도	1:1				
	승인	검도	설계		



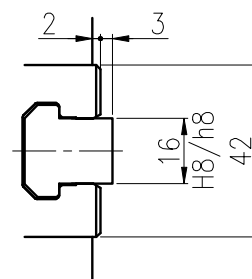
SPECIFICATION	
PLUNGER STROKE	16 mm
JAW STROKE (직경)	7.4 mm
PLUNGER 허용추력	3,549 kgf
최대 파악력	8,769 kgf
최고 회전수	5,000 r.p.m.
WEIGHT (SOFT JAW 포함)	22.3 kgf
G·D ² (SOFT JAW 포함)	0.68 kgf·m ²
최고회전중 파악력	2,927 kgf
적용 CYLINDER	SYH-1552
최대설정유압력	27 kg/cm ²



순번	규격	부품명	외형도
종류	초고속 중공 유압력	납품처	
도번	HS-08-WEB	사용처	
무상 3라번 력도		납품 처 적용사명 SAMCHULLY	
1:1	승인	검도	설계



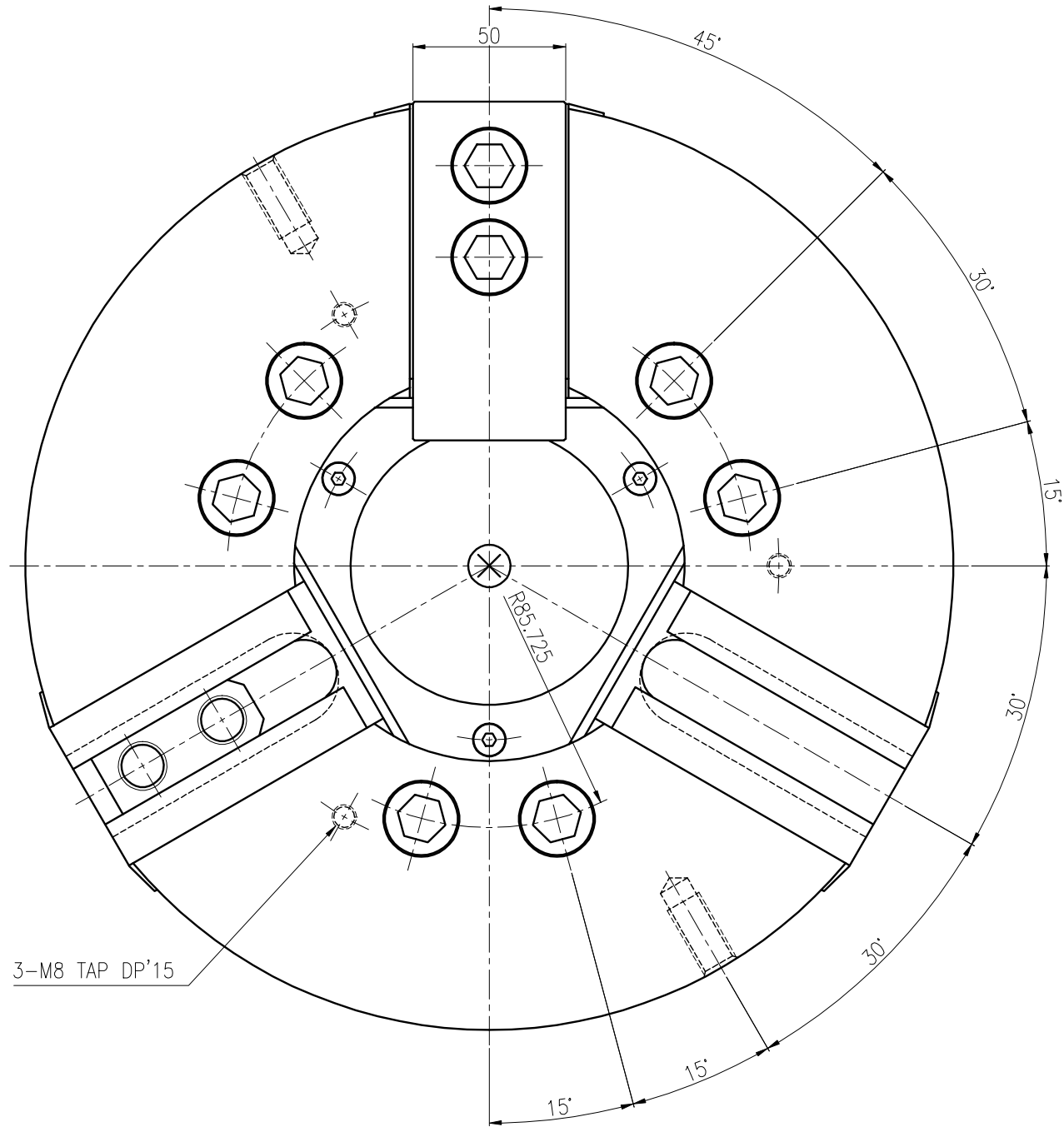
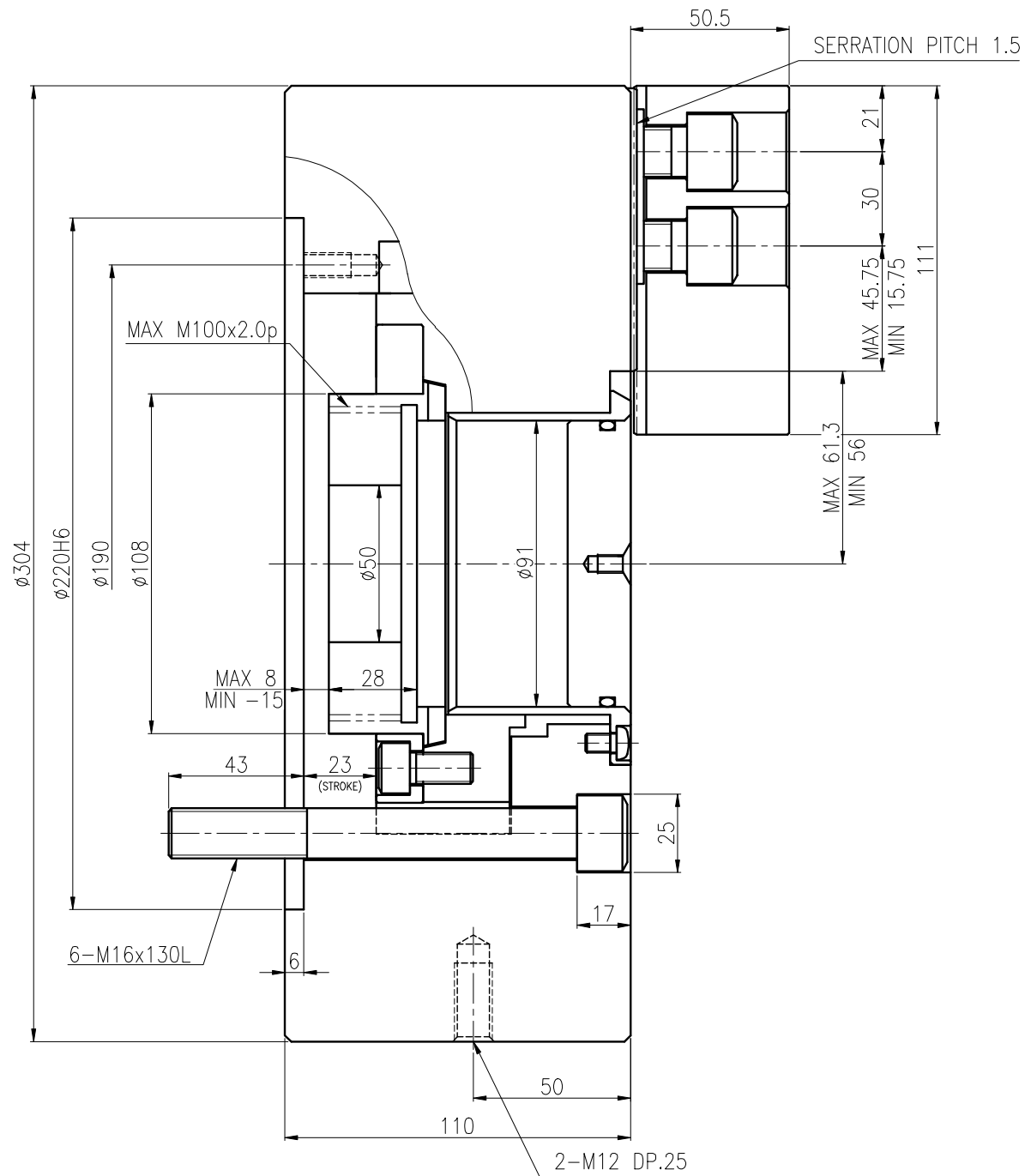
SPECIFICATION	
PLUNGER STROKE	19 mm
JAW STROKE (직경)	8.8 mm
PLUNGER 허용추력	4,385 kgf
최대 파악력	11,319 kgf
최고 회전수	4,200 r.p.m.
WEIGHT (SOFT JAW 포함)	34.5 kgf
G·D ² (SOFT JAW 포함)	1.26 kgf·m ²
최고회전중 파악력	3,773 kgf
적용 CYLINDER	SYH-1877
최대설정유압력	27.5 kg/cm ²



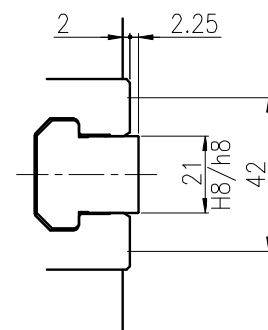
순번	구분	부품명	외형도
분류	초고속 중공 유압척	납품처	
도번	HS-10-WEB	사용처	
무상 3각법		날짜	
최도 1:1	승인	검도	설계

적용실현리

SAMCHULLY
ENGINEERING CO., LTD.



SPECIFICATION	
PLUNGER STROKE	23 mm
JAW STROKE (직경)	10.6 mm
PLUNGER 허용추력	5,608 kgf
최대 파악력	14,686 kgf
최고 회전수	3,300 r.p.m.
WEIGHT (SOFT JAW 포함)	55.3 kgf
G·D ² (SOFT JAW 포함)	2.95 kgf·m ²
최고회전중 파악력	4,895 kgf
적용 CYLINDER	SYH-2091
최대설정유압력	27.5 kg/cm ²



수면	규격	부품명	외형도
표기	초고속 중공 유압력	납품처	
도면	HS-12-WEB	사용처	
수량		납품	
비고		적용사양서	
1:1	승인	경도	설계

