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SPECIAL CHUCK



SEOAM

서암기계공업주식회사
SEOAM MACHINERY INDUSTRY CO.,LTD.

HISTORY OF SEOAM

1978.02.	Establishment of Hwacheon Gear Works Co.,Ltd.	货泉齿轮株式会社成立	화천기어공업주식회사 설립
1986.07.	Made a contract of technical cooperation with Howa machinery.,Ltd.	与日本HOWA机械签定技术合作合同	일본HOWA공업(주)와 기술도입 계약
1992.02.	Exported Power Chuck to Howa machinery Ltd.	动力卡盘出口至日本HOWA机械	Power Chuck 일본 Howa 수출
1995.01	Moved to new factory in Hanam Industrial Complex.	搬迁至河南工业复合区的新工厂	하남공단으로 공장 신축 이전
1996.12.	Achieved C.E Mark.	获得欧洲C.E认证	Europe 안전규격 C.E Mark 획득
1998.09.	Achieved ISO 9001 certificate.	获得ISO 9001国际质量认证	ISO 9001 인증 획득
1998.11.	R&D center established.	R&D中心成立	기업부설 연구소 설립
2000.10.	Changed company name into "SEOAM"	公司更名为瑞岩机械工业株式会社	화천기어에서 서암기계공업(주)로 상호명 변경
2001.11.	Awarded a prize by president in commemoration of TRADE day.	在商贸节上荣获总统颁发奖项	무역의날 대통령상 수상
2003.05.	Exported Power Chuck & Cylinder to China.	动力卡盘和回转油缸出口至中国	Power Chuck & Cylinder 중국수출
2004.11.	Awarded trophy for exports over US \$3Millions and awarded recognition from Korea president.	荣获总统为出口总值超过300万美元的企业颁发的奖项	대표이사 대통령상 수상 및 300만불 수출탑 수상
2004.12.	Awarded Materials and Components Technology prize by Minister of Commerce, Industry and Energy.	荣获工商业部, 能源部部长颁发的材料及元件科技奖	산업자원부 장관상 (부품소재 기술상) 수상
2005.11.	Awarded trophy for exports over US \$5Millions and by Minister of Commerce, Industry and Energy.	荣获“贸易之日500万美元出口杯”奖, 产业资源部长官奖	무역의 날 500만불 수출탑 수상 및 산자부장관상 수상
2006.12.	5patents registered for Compensating Chuck etc.(Korean Intellectual Property Office)	取得车床离心力补偿型动力卡盘等5项专利(专利厅)	선반의 원심력보상형 파워척 외 5건 특허획득(특허청)
2008.11.	Achived Single PPM certificate for Power Chuck and Hydraulic Cylinder.	取得单个PPM品质认证(油压卡盘& 液压缸)	싱글PPM 품질인증 획득(유압척 & 유압실린더)

NO.	Image	Model	Name	Page	NO.	Image	Model	Name	Page
1		CAHF	• 4-JAW OPEN CENTER POWER CHUCK • 4爪中空型动力卡盘 • 4-조 중공형 파워척	2	22		LVL	• 3-JAW LONG STROKE LEVER CHUCK • 3爪长行程杠杆卡盘 • 3-조 롱스트로크 레버척	24
2		CASF	• 4-JAW CLOSED CENTER POWER CHUCK • 4爪中实型动力卡盘 • 4-조 중실형 파워척	3	23		LVS	• 3-JAW POWER CHANGE CHUCK • 3爪夹紧力变换动力卡盘 • 3-조 파워 체인지척	25
3		CAHL	• 3-JAW OPEN CENTER LONG STROKE POWER CHUCK • 3爪中空型长行程动力卡盘 • 3-조 중공형 롱스트로크척	4	24		HSR	• 90° ANGLE AUTO INDEX CHUCK • 自动分度标准型动力卡盘 • 90도 인덱스척	26
4		CASL	• 3-JAW CLOSED CENTER LONG STROKE POWER CHUCK • 3爪中实型长行程动力卡盘 • 3-조 중실형 롱스트로크척	5	25		HSRD	• THRUST ROAD INDEX CHUCK • 自动分度定心型动力卡盘 • 스톱로드 인덱스척	28
5		CAHTL	• 2-JAW OPEN CENTER LONG STROKE POWER CHUCK • 2爪中空型长行程动力卡盘 • 2-조 중공형 롱스트로크척	6	26		HSRF	• HIGH SPEED AUTO INDEX CHUCK • 自动分度高速型动力卡盘 • 고속형 인덱스척	29
6		CASTL	• 2-JAW CLOSED CENTER LONG STROKE POWER CHUCK • 2爪中实型长行程动力卡盘 • 2-조 중실형 롱스트로크척	7	27		HSRT	• 120° ANGLE AUTO INDEX CHUCK • 自动分度三等分动力卡盘 • 120도 인덱스척	30
7		SBL	• UNIVERSAL BALL LOCK CHUCK • 万能球锁浮动式动力卡盘 • 만능 볼록 파워척	8	28		HSRP	• HIGH CLAMP AUTO INDEX CHUCK • 自动分度强力型动力卡盘 • 강력 파악형 인덱스척	31
8		CBL	• SWING BALL LOCK CHUCK • 摇摆球锁卡盘 • 스윙 볼록 파워척	9	29		-2F, -3F	• FINGER CHUCK • 指形卡盘 • 핑거척	32
9		ODD	• 3-JAW OUT-DIA DRAW DOWN CHUCK • 外径用3爪斜拉卡盘 • 3-조 외경용 드로우다운척	10	30		DNT	• 2-JAW & 3-JAW CHUCK • 2爪, 3爪公用卡盘 • 2-조, 3조 겸용 파워척	33
10		ODT	• 2-JAW OUT-DIA DRAW DOWN CHUCK • 外径用2爪斜拉卡盘 • 2-조 외경용 드로우다운척	11	31		TIL	• 6-JAW LEVER CHUCK • 6爪杠杆动力卡盘 • 6-조 레버척	34
11		IDD	• 3-JAW INNER-DIA DRAW DOWN CHUCK • 内径用3爪斜拉卡盘 • 3-조 내경용 드로우다운척	12	32		SPD	• HIGH-SPEED POWER CHUCK WITH COUNTER BALANCE • 超高速动力卡盘 • 카운터 밸런스 내장형 고속척	35
12		OPA	• 3-JAW OUT-DIA PIN ARBOR CHUCK • 销柱式外径用精密动力卡盘 • 3-조 외경용 핀아버척	13	33		QJC	• QUICK JAW CHANGE CHUCK • 快换爪卡盘 • 퀵 조 체인지척	36
13		IPA	• 3-JAW INNER-DIA PIN ARBOR CHUCK • 销柱式内径用精密动力卡盘 • 3-조 내경용 핀아버척	14	34		DPM	• DIAPHRAGM CHUCK • 薄膜动力卡盘 • 다이아프램척	37
14		PDO	• 3-JAW OUT-DIA PULL DOWN CHUCK • 外径用3爪后拉卡盘 • 3-조 외경용 풀다운척	15	35		AIR	• AIR CHUCK • 气动卡盘 • 에어척	38
15		PDI	• 3-JAW INNER-DIA PULL DOWN CHUCK • 内径用3爪后拉卡盘 • 3-조 내경용 풀다운척	16	36		FDR	• FACE DRIVE CHUCK • 端面驱动动力卡盘 • 페이스 드라이브척	39
16		IDC	• INNER-DIA CLAMP COLLET CHUCK • 内径用涨套卡盘 • 내경용 콜렛척	17	37		ALW	• AL-WHEEL CHUCK • 轮毂动力卡盘 • 알루미늄 휠척	40
17		ODC	• OUT-DIA CLAMP COLLET CHUCK • 外径用涨套卡盘 • 외경용 콜렛척	18	38		YTR	• POWER CYLINDER WITH THROUGH HOLE • 中实回转油缸(注水型) • 주수형 중실형 실린더	42
18		RBC	• OUT-DIA CLAMP RUBBER COLLET CHUCK • 外径用注胶型涨套卡盘 • 외경용 러버 콜렛척	19	39		YDP	• HYDRAULIC DOUBLE PISTON CYLINDER • 双活塞液油缸 • 2단 실린더	43
19		COS	• 3-JAW COMPENSATING CHUCK • 3爪补偿型卡盘 • 3-조 콤파센싱척	20	40		YAR	• AIR CYLINDER • 气缸 • 에어 실린더	44
20		COD	• 3-JAW COMPENSATING CHUCK(SWING TYPE) • 3爪补偿型卡盘(浮动型) • 3-조 스윙형 콤파센싱척	21	41		FXA	• STATIONARY CHUCK • 加工中心用动力卡盘 • 스테이션러리척	45
21		CBN	• COMBINATION CHUCK WITH FACE DRIVER&FINGER • 复合型卡盘(端面驱动卡盘&指形卡盘) • 콤비네이션척	22	42		FXB	• STATIONARY AIR CHUCK • 加工中心用气动卡盘 • 스테이션러리 에어척	46



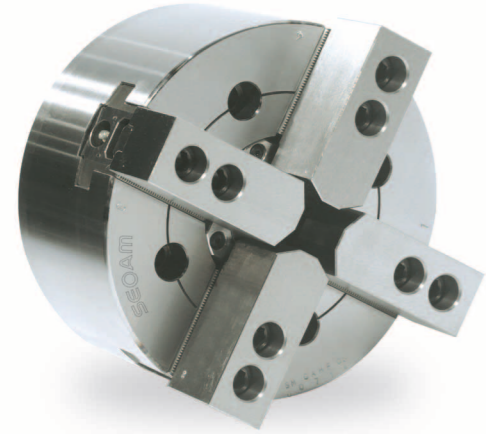
4-JAW OPEN CENTER POWER CHUCK

4爪中空型动力卡盘 / 4-조 중공형 파워 척

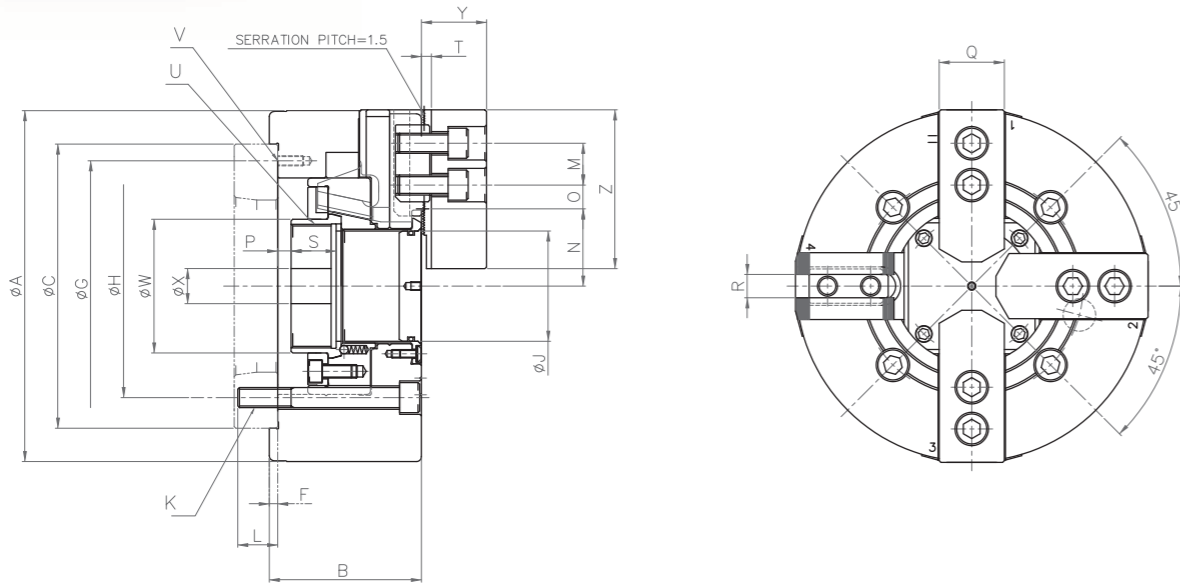
1. This is a standard chuck style of 4-jaws open center power chuck.
2. It is using to clamping of the square materials or deformed materials. And also, it using at the important time of rounding material's out of roundness shape degree.

1. 标准结构的四爪中空油压卡盘.
2. 在夹紧四角、异型工件或对圆形工件的圆度要求较高时使用.

1. 표준척 형식의 4-JAW 중공 유압 CHUCK 입니다.
2. 4각 소재 또는 이형 가공물을 CLAMP할 때 사용되며, 원형 소재의 진원도 형상정도가 중요 할 때도 사용됩니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C _{H7}	F	G	H	J	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
CAHF 08		210	91	170	5	150	133.4	52	4-M12	18	25	41.7	37.9	27	10	16.5	-1.5	39	14	20.5	2	M60X2	3-M6	66	30	39	95
CAHF 10		254	100	220	5	190	171.4	77	4-M16	24	30	54.5	50.3	31	12	9.5	-10.5	44	16	27	2	M85X2	3-M8	94	30	46	110
CAHF 12		304	115	220	6	190	171.4	91	4-M16	25	30	67.4	62.3	42	12	10	-14	50	21	28	2	M100X2	3-M8	108	30	51.8	111
CAHF 15		381	133	300	6	260	235	118	4-M20	28	43	82	76.7	43.8	18.3	11	-12	62	22	39	5	M130X2	3-M10	139	60	70	165
CAHF 18		450	133	380	6	320	235	118	4-M20	28	43	82	76.3	73.8	18.3	11	-12	62	22	39	5	M130X2	3-M10	139	60	70	165
CAHF 21		530	140	380	6	330.2	330.2	140	4-M22	34	60	98.5	93.2	87.5	21.5	11	-12	65	25	39	5	M155X3	3-M12	166	80	73	180
CAHF 24		610	149	380	6	330.2	330.2	165	4-M22	35	60	108.4	103.2	117.5	21.5	20	-3	65	25	40	5	M175X3	3-M12	187	80	73	180

Specifications • 规格 • 사양표

Model	Spec.	Thru-hole (diameter) mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
					Max	Min						
CAHF 08		52	7.6	18	210	11	40(4080)	94(9597)	5000	23.6	6.90(0.71)	YAH-08
CAHF 10		77	8.5	20	254	31	50(5100)	125(12740)	4200	40	12.65(1.29)	YAH-10
CAHF 12		91	10.2	24	304	34	58(5916)	147(15000)	3300	64	30.00(3.06)	YAH-12
CAHF 15		118	10.6	23	381	30	71(7240)	180(18355)	2500	127	93.55(9.54)	YAH-15
CAHF 18		118	10.6	23	450	30	71(7240)	180(18355)	2000	178	187.30(19.1)	YAH-15
CAHF 21		140	10.6	23	530	87	90(9177)	234(23861)	1700	246	362.83(37.0)	YAH-21
CAHF 24		165	10.4	23	610	110	90(9177)	234(23861)	1400	304	660.94(66.4)	YAH-21

4-JAW CLOSED CENTER POWER CHUCK

4爪中空型动力卡盘 / 4-조 중실형 파워 척

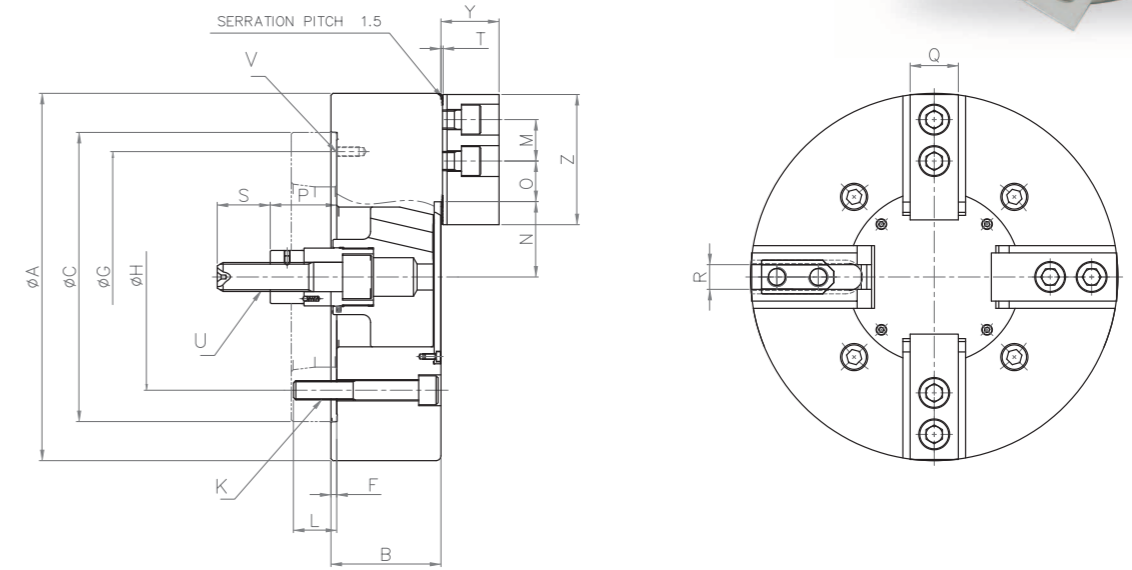
1. This is a standard chuck style of 4-jaws closed center power chuck.
2. It is using to clamping of the square materials or deformed materials. And also, it using at the important time of rounding material's out of roundness shape degree.

1. 标准结构的四爪中实油压卡盘.
2. 在夹紧四角、异型工件或对圆形工件的圆度要求较高时使用.

1. 표준척 형식의 4-JAW 중실 유압 CHUCK 입니다.
2. 4각 소재 또는 이형 가공물을 CLAMP할 때 사용되며, 원형 소재의 진원도 형상정도가 중요 할 때도 사용됩니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C _{H7}	F	G	H	K	L	M	N max	N min	O max	O min	P max	P min	Q	R	S	T	U	V	Y	Z
CASF 08		210	85	170	5	150	133.4	4-M12	15	25	46.5	41.9	22.5	9	127	106	39	14	36	5	M20	4-M6	43	95
CASF 10		254	89	220	5	190	171.4	4-M16	18	30	51.1	46.7	30.7	11.2	158	133	44	16	36	5	M20	4-M8	50	110
CASF 12		304	106	220	6	190	171.4	4-M16	18	30	61	55.7	48.7	12.7	163	133	50	18	36	5	M20	4-M8	54	111
CASF 15 A8		381	114	300	6	260	171.4	4-M16	22.5	50	74.5	65.2	54.5	21.5	35	0	65	26	50	2	M30	4-M10	72	156
CASF 15 A11		381	114	300	6	260	235	4-M20	26	50	74.5	65.2	54.5	21.5	35	0	65	26	50	2	M30	4-M10	72	156
CASF 18 A8		457	114	300	6	320	171.4	4-M16	22.5	50	74.5	65.2	90.5	21.5	35	0	65	26	50	2	M30	4-M12	72	156
CASF 18 A11		457	114	300	6	320	235	4-M20	26	50	74.5	65.2	90.5	21.5	35	0	65	26	50	2	M30	4-M12	72	156
CASF 21 A11		530	125	380	6	330.2	235	4-M20	26	50	101.5	92.2	100.5	21.5	35	0	65	26	55	3	M30	4-M12	73	180
CASF 21 A15		530	125	380	6	330.2	330.2	4-M22	31	50	101.5	92.2	100.5	21.5	35	0	65	26	55	3	M30	4-M12	73	180
CASF 24 A11		610	125	380	6	330.2	235	4-M20	26	50	101.5	92.2	136.5	21.5	35	0	65	26	55	3	M30	4-M12	73	180
CASF 24 A15		610	125	380	6	330.2	330.2	4-M22	31	50	101.5	92.2	136.5	21.5	35	0	65	26	55	3	M30	4-M12	73	180

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
CASF 08		8.8	21	210	23	28(2856)	80(8160)	4800	26	5.39(0.55)	YAS-125
CASF 10		8.8	25	254	24	32.5(3315)	115(11730)	4100	37.7	11.17(1.20)	YAS-125
CASF 12		10.5	30	304	26	41.5(4233)	156(16014)	3400	59.4	28.44(2.90)	YAS-150
CASF 15		18.6	35	381	60	73.5(7438)	147(14876)	2100	102.5	69.6(7.12)	YAS-200
CASF 18		18.6	35	457	60	73.5(7438)	147(14876)	1700	128.5	135.32(13.8)	YAS-200
CASF 21		18.6	35	530	110	98.1(9927)	194(19632)	1500	186.4	268.68(27.4)	YAS-200
CASF 24		18.6	35	610	110	98.1(9927)	194(19632)	1200	229.4	456.2(46.52)	YAS-200

3-JAW OPEN CENTER LONG STROKE POWER CHUCK

3爪中空型长行程动力卡盘 / 3-조 중공형 롱스트로크 척

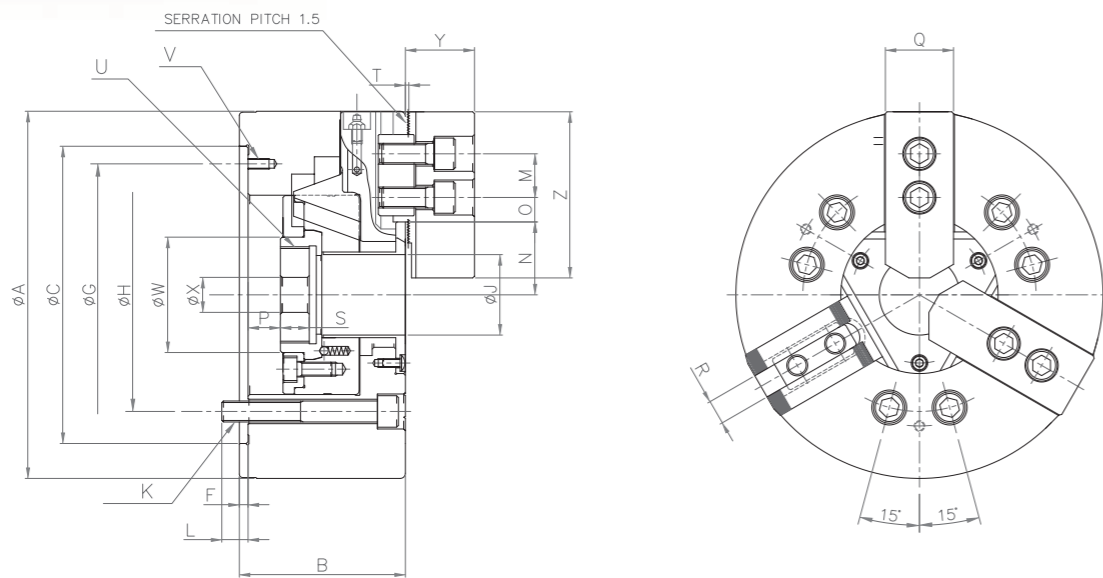
1. This is a 3-jaws open center standard chuck with the long stroke.
2. It is using to clamping part which needs the long stroke structure.

1. 三爪中空长行程卡盘.
2. 要夹紧的部位要求行程大的结构时使用.

1. 3-JAW 중공 표준척 형식의 LONG STROKE를 가진 척입니다.
2. CLAMP 하려는 부분이 LONG STROKE 구조가 필요할 때 사용됩니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C ₁₇	F	G	H	J	K	L	M	N max	N min	O max
CAHL 08		210	95	170	5	150	133.4	46	6-M12	15	25	41.7	34.5	27
CAHL 10		254	110	220	5	190	171.4	52	6-M16	17	30	54.5	45.5	31
CAHL 12		304	127	220	6	190	171.4	77	6-M16	18	30	67.4	56.5	42

Model	Symbol	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
CAHL 08		10	18.5	-1.5	39	14	20.5	2	M55X2	3-M6	60	20	39	95
CAHL 10		12	14.5	-10.5	44	16	27	2	M60X2	3-M8	66	30	46	110
CAHL 12		12	16	-14	50	21	28	2	M85X2	3-M8	94	30	51.8	111

Specifications • 规格 • 사양표

Model	Spec.	Thru-hole (diameter) mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
					Max	Min						
CAHL 08		46	14.5	20	210	13	40(4080)	74(7500)	3000	23.6	6.90(0.71)	YAH-08
CAHL 10		52	18	25	254	21	50(5100)	93(9500)	2500	40	14.85(1.52)	YAH-10
CAHL 12		77	21.8	30	304	31	58(5916)	108(11000)	1900	64	30.00(3.06)	YAH-12

3-JAW CLOSED CENTER LONG STROKE POWER CHUCK

3爪中实型长行程动力卡盘 / 3-조 중실형 롱스트로크 척

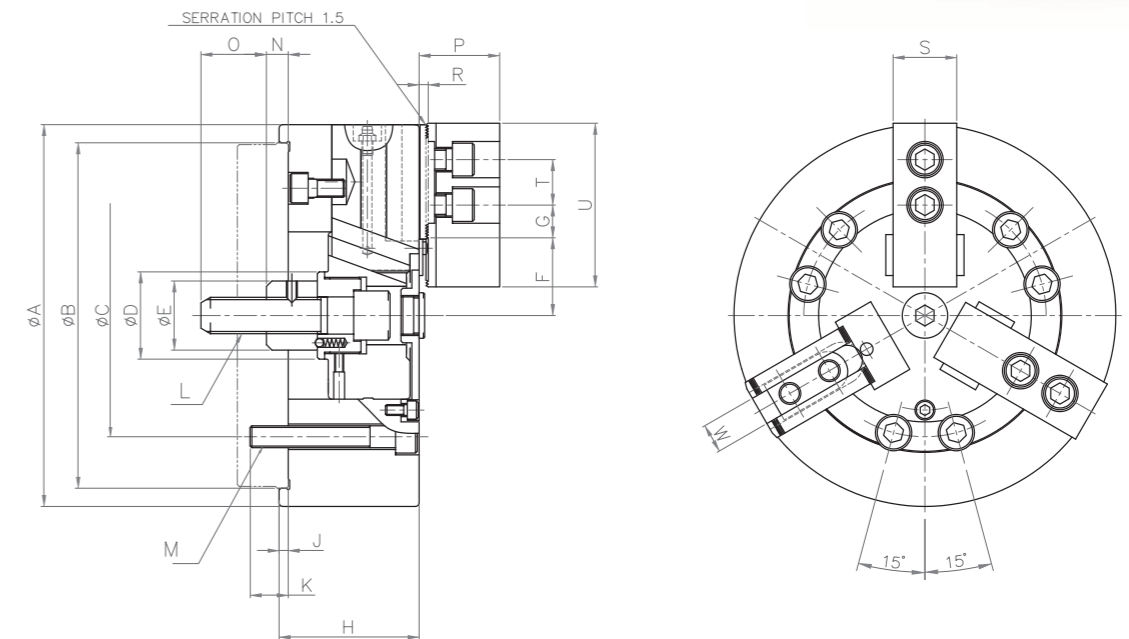
1. This is a 3-jaws closed center standard chuck with the long stroke.
2. It is using to clamping part which needs the long stroke structure.

1. 三爪中实长行程卡盘.
2. 要夹紧的部位要求行程大的结构时使用.

1. 3-JAW 중실 표준척 형식의 LONG STROKE를 가진 척입니다.
2. CLAMP 하려는 부분이 LONG STROKE 구조가 필요할 때 사용됩니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B _{H7}	C	D	E	F max	F min	G max	G min	H	J	K	L	M	N max	N min	O	P	R	S	T	U	W
CASL 05		130	115	82.6	—	28	32.8	28.1	13.5	4.5	50	5	16	M12	3-M10	14	1	36	29	5	25	19	58	10
CASL 06		165	140	104.8	38	32	38.8	32.3	18	7.5	63	5	17	M16	6-M10	29	11	36	34	5	30	20	72	12
CASL 08		210	190	133.4	48	38	42.8	34.8	30	13.5	77	5	21	M20	6-M12	34	12	36	44	5	35	25	95	14
CASL 10		254	230	133.4	58	50	48.8	39.8	40.5	15	85	5	23	M24	6-M12	44	19	46	54	5	40	30	110	16
CASL 12		304	280	171.4	65	52	57.5	47.5	45	15	97	5	25	M27	6-M16	50	22	50	63	5	50	30	111	18

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
CASL 05		9.4	13	130	8	8.8(900)	14.7(1500)	3500	4.6	0.10(0.010)	YAS-80
CASL 06		13	18	165	20	14.7(1500)	32.4(3300)	4000	11	0.34(0.035)	YAS-100
CASL 08		16	22	210	22	29.4(3000)	64.7(6600)	4000	21	1.18(0.12)	YAS-125
CASL 10		18	25	254	25	34.3 (3500)	73.5(7500)	3000	33	2.65(0.27)	YAS-150
CASL 12		20	28	304	28	44.1(4500)	97.1(9900)	2500	55	6.27(0.64)	YAS-150

2-JAW OPEN CENTER LONG STROKE POWER CHUCK

2爪中空型长行程动力卡盘 / 2-조 중공형 롱스트로크 척

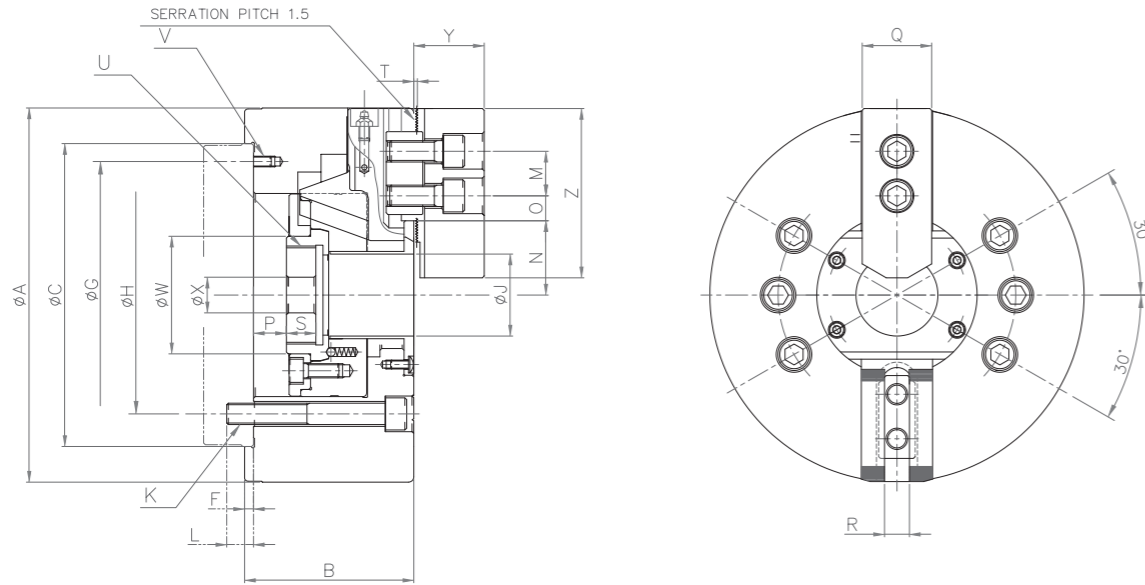
1. This is a 2-jaws open center standard chuck with the long stroke.
2. It is using to clamping part which needs the long stroke structure.

1. 在两爪中空标准卡盘结构上具有卡爪行程大的功能。
2. 要夹紧的部分要求行程大时使用。

1. 2-JAW 중공 표준척 형식의 LONG STROKE를 가진 척입니다.
2. CLAMP 하려는 부분이 LONG STROKE 구조가 필요할 때 사용됩니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A	B	C ₁₇	F	G	H	J	K	L	M	N max	N min	O max
CAHTL 08		210	95	170	5	150	133.4	46	6-M12	15	25	41.7	34.5	27
CAHTL 10		254	110	220	5	190	171.4	52	6-M16	17	30	54.5	45.5	31
CAHTL 12		304	127	220	6	190	171.4	77	6-M16	18	30	67.4	56.5	42

Model	Symbol	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
CAHTL 08		10	18.5	-1.5	39	14	20.5	2	M55X2	4-M6	60	20	39	95
CAHTL 10		12	14.5	-10.5	44	16	27	2	M60X2	4-M8	66	30	46	110
CAHTL 12		12	16	-14	50	21	28	2	M85X2	4-M8	94	30	51.8	111

Specifications · 规格 · 사양표

Model	Spec.	Thru-hole (diameter) mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
					Max	Min						
CAHTL 08		46	14.5	20	210	13	40(4080)	74(7500)	3000	23	6.90(0.71)	YAH-08
CAHTL 10		52	18	25	254	21	50(5100)	93(9500)	2500	39.2	14.85(1.52)	YAH-10
CAHTL 12		77	21.8	30	304	31	58(,916)	108(11000)	1900	62.8	30.00(3.06)	YAH-12

2-JAW CLOSED CENTER LONG STROKE POWER CHUCK

2爪中实型长行程动力卡盘 / 2-조 중실형 롱스트로크 척

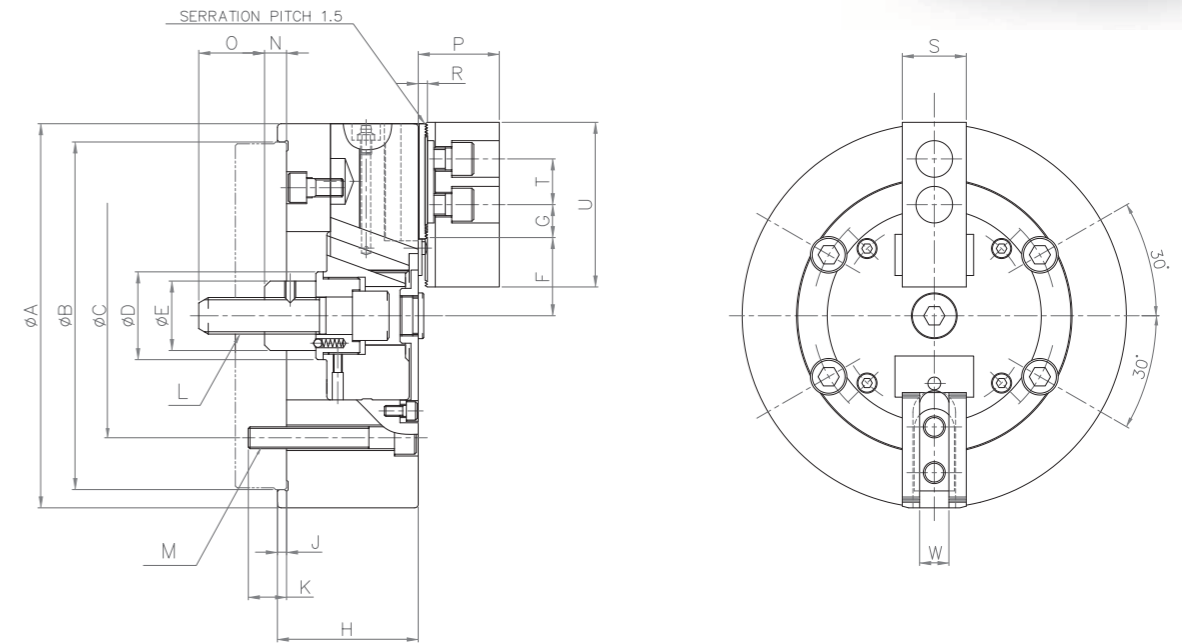
1. This is a 2-jaws closed center standard chuck with the long stroke.
2. It is using to clamping part which needs the long stroke structure.

1. 在两爪中实标准卡盘结构上具有卡爪行程大的功能。
2. 要夹紧的部分要求行程大时使用。

1. 2-JAW 중실 표준척 형식의 LONG STROKE를 가진 척입니다.
2. CLAMP 하려는 부분이 LONG STROKE 구조가 필요할 때 사용됩니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

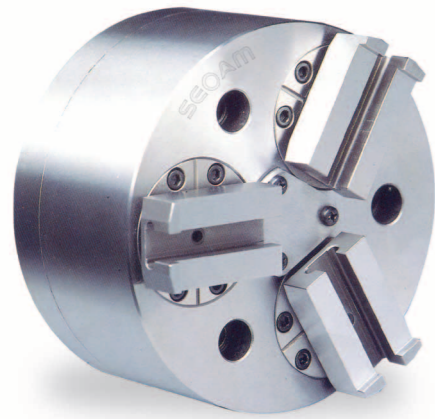
Model	Symbol	A	B ₁₇	C	D	E	F max	F min	G max	G min	H	J	K	L	M	N max	N min	O	P	R	S	T	U	W
CASTL 05		130	115	82.6	—	28	32.8	28.1	13.5	4.5	50	5	16	M12	3-M10	14	1	36	29	5	25	19	58	10
CASTL 06		165	140	104.8	38	32	38.8	32.3	18	7.5	63	5	17	M16	6-M10	29	11	36	34	5	30	20	72	12
CASTL 08		210	190	133.4	48	38	42.8	34.8	30	13.5	77	5	21	M20	6-M12	34	12	36	44	5	35	25	95	14
CASTL 10		254	230	133.4	58	50	48.8	39.8	40.5	15	85	5	23	M24	6-M12	44	19	46	54	5	40	30	110	16
CASTL 12		304	280	171.4	65	52	57.5	47.5	45	15	97	5	25	M27	6-M16	50	22	50	63	5	50	30	111	18

Specifications · 规格 · 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia (mm)		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
CASTL 05		9.4	13	130	8	8.8(900)	14.7(1500)	3500	4.6	0.1(0.01)	YAS-80
CASTL 06		13	18	165	20	14.7(1500)	32.4(3300)	4000	11	0.34(0.035)	YAS-100
CASTL 08		16	22	210	22	29.4(3000)	64.7(6600)	4000	21	1.18(0.12)	YAS-125
CASTL 10		18	25	254	25	34.3(3500)	73.5(7500)	3000	33	2.65(0.27)	YAS-150
CASTL 12		20	28	304	28	44.1(4500)	97.1(9900)	2500	55	6.27(0.64)	YAS-150

UNIVERSAL BALL LOCK CHUCK

万能球锁浮动式动力卡盘 / 만능 볼 록 파워척

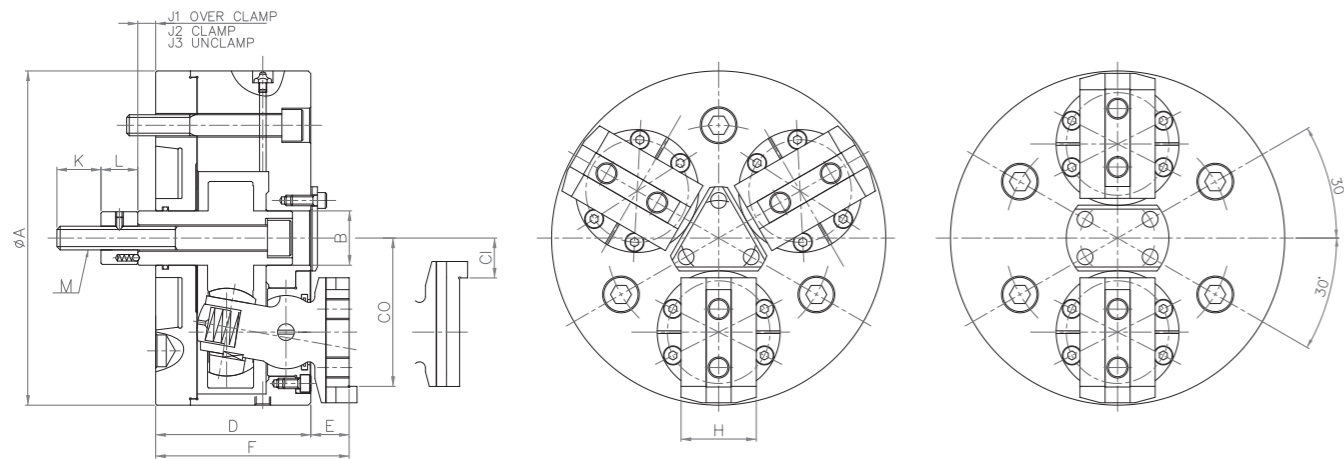


1. This chuck is using to clamping of unprocessed forging materials or casting materials. And also, it has strong clamping power.
2. It is able to clamping 10° gradient side of products. And also, it has 5° automatic direction function by side to side of Jaw.
3. There are special type of compensating chuck and 2-jaws model. Those are machining the Shaft.

1. 用于夹紧锻件、铸件，夹紧力强。
2. 可以夹紧工件的10度锥面，卡爪可自动左右旋转5度的功能。
3. 具有有加工轴的特殊类型的补偿式卡盘和同样结构的2爪卡盘。

1. 가공되지 않는 단조품 또는 주물 가공물을 CLAMP하는 용도의 적이며, 클램프력이 강합니다.
2. 가공물의 구배면 10° CLAMP도 가능하며 JAW가 좌우로 5°의 자동 지향 기능이 있습니다.
3. SHAFT(축)을 가공하는 특수형의 COMPENSATING CHUCK과 2-JAW 모델도 있습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C0	C1	D	E	F	H ⁰ _{-0.05}	J1	J2	J3	K	L	M
SM-SBL 06		162	30.16	73.15	22.2	85.2	19.3	104.6	38.1	4.4	10.6	15.7	36	23	M16
SM-SBL 08		200	31.75	88.95	25.35	100	23.3	123.3	44.45	4	12	17.3	36	23	M16
SM-SBL 10		254	41.27	112.7	30.3	118	29.1	147.1	57.15	4	13.5	21.5	36	28	M18
SM-SBL 12		300	41.27	133.2	50.8	118	29.1	147.1	57.15	4	13.5	21.5	36	28	M18
SM-SBL 15		381	57.16	171.45	69.8	131	32.4	163.4	66.68	12.7	24.7	35	50	32	M24
SM-SBL 18		457	88.9	209.55	107.9	131	32.4	163.4	66.68	12.7	24.7	35	50	32	M24
SM-SBL 21		533	88.9	247.65	146	131	32.4	163.4	66.68	12.7	24.7	35	50	32	M24

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Outside	Inside						
SM-SBL 06		7.9	11.3	12.7~120	70~152	21.5(2200)	64.71(6600)	3500	18	1.47(0.15)	YAS-100
SM-SBL 08		9.5	14.3	16~152	76~203	28.4(2900)	85.29(8700)	2800	27	4.70(0.48)	YAS-125
SM-SBL 10		12.7	17.5	50-203	85~235	35.29(3600)	105.88(10800)	2300	45	12.05(1.23)	YAS-125
SM-SBL 12		12.7	17.5	63~241	127~305	35.29(3600)	105.88(10800)	1800	37.5	23.72(2.42)	YAS-125
SM-SBL 15		15.8	22.3	76~317	165~381	53.92(5500)	161.76(16500)	1500	84.5	83.20(8.49)	YAS-150
SM-SBL 18		15.8	22.3	89~394	241~457	53.92(5500)	161.76(16500)	1200	120	148.96(15.17)	YAS-200
SM-SBL 21		15.8	22.3	162~470	317~533	53.92(5500)	161.76(16500)	1000	180	245(25)	YAS-200

SWING BALL LOCK CHUCK

摇摆球锁卡盘 / 스윙 볼 록 파워척

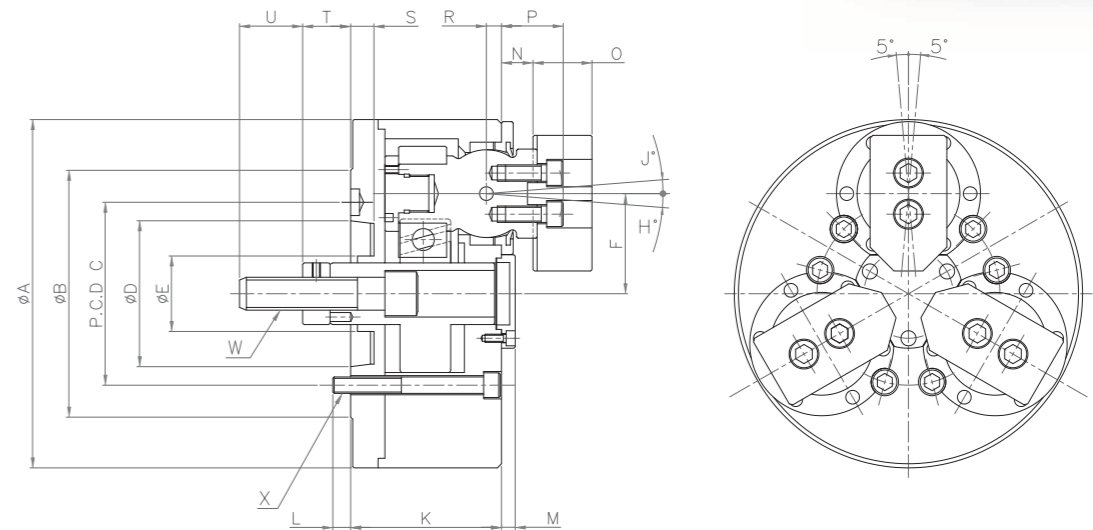


1. This chuck is using to clamping of unprocessed forging materials or casting materials. And also, it has strong clamping power.
2. It is able to clamping 10° gradient side of products. And also, it has 5° automatic direction function by side to side of jaw.

1. 用于夹紧锻件、铸件，夹紧力大。
2. 可以夹紧工件的10度锥面，卡爪可自动左右旋转5度的功能。

1. 가공되지 않는 단조품 또는 주물 가공물을 CLAMP하는 용도의 적이며, 클램프력이 강합니다.
2. 가공물의 구배면 10° CLAMP도 가능하며 JAW가 좌우로 5°의 자동 지향 기능이 있습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E	F max	F min	H	J	K	L
SM-CBL 06		180	135	104.77	82.565	81	54.2	49.6	2.54'	2.39'	81	15
SM-CBL 08		210	180	133.35	106.375	93	63.2	58.6	2.26'	2.19'	93	20
SM-CBL 10		254	180	133.35	106.375	110	76	69.8	2.46'	2.39'	110	23
SM-CBL 12		304	225	171.45	139.72	114	93.1	86.75	2.39'	2.32'	114	23
SM-CBL 15		381	280	235	196.869	149	121.9	114.1	2.29'	2.28'	149	32

Model	Symbol	M	N	O	P	R	S	T max	T min	U	W	X
SM-CBL 06		9	20	35	20	7.5	15	32.5	17.5	38	M16	6-M10
SM-CBL 08		10	22	40	22	6	16	32.5	17.5	38	M18	6-M12
SM-CBL 10		10	26	45	26	8	16	45	25	46	M24	6-M12
SM-CBL 12		11	29	50	29	9	18	57	37	50	M27	6-M16
SM-CBL 15		13	34	60	34	10	22	59.5	34.5	50	M27	6-M20

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-CBL 06		9.2	15	120	12	26.5(2700)	44.1(4500)	4000	176	2.65(0.27)	YAS-100
SM-CBL 08		9.2	15	150	16	33.3(3400)	56.9(5800)	3500	27	5.88(0.6)	YAS-125
SM-CBL 10		12.4	20	205	50	44.1(4500)	72.6(7400)	3000	34	10.39(1.06)	YAS-125
SM-CBL 12		12.7	20	240	63	56.9(5800)	87.3(8900)	2500	70	30.18(3.08)	YAS-125
SM-CBL 15		15.6	25	310	75	68.7(7000)	108.9(11100)	2000	140	96.73(9.87)	YAS-150

3-JAW OUT-DIA DRAW DOWN CHUCK

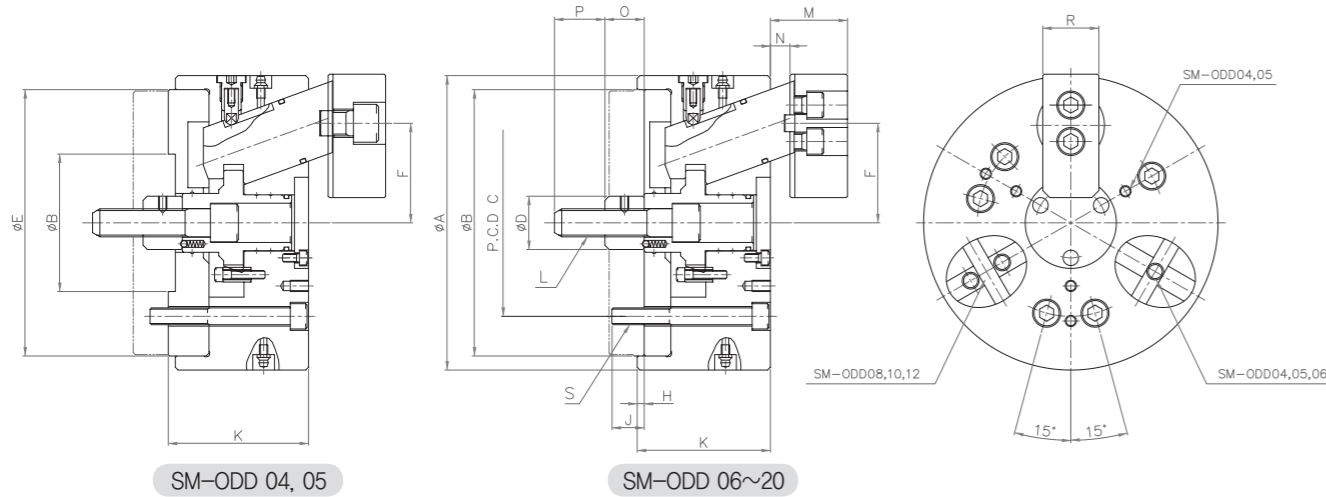
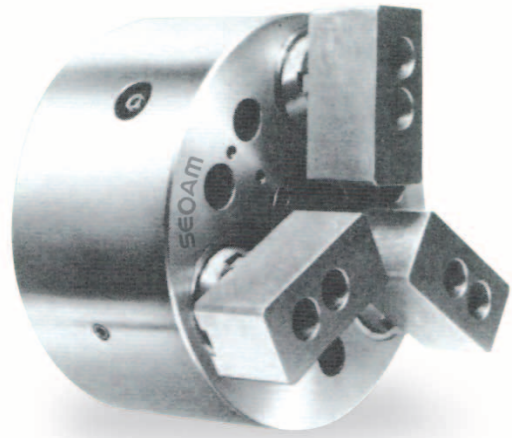
外径用3爪斜拉卡盘 / 3-조 외경용 드로우다운 척

1. This is a out-dia clamping chuck, which is using at the machining material's finishing process.
2. It is using at important of the parallelization degree.
When it does clamping the machining material by pulling.
3. It can clamping more bigger than material's of the pin arbor chuck.

1. 用于精加工工序的工件, 夹紧外径.
2. 后拉夹紧, 因此对平行度要求较高时使用.
3. 可以夹紧比销柱式卡盘的加工工件还大的工件.

1. 가공물의 사상공정에 사용되는 외경 CLAMP 척입니다.
2. 가공물을 끌어 당기며 CLAMP하므로 평행도가 중요할 때 사용합니다.
3. PIN ARBOR CHUCK의 가공소재 보다 큰 공작물을 CLAMP할 수 있습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B _{H7}	C	D	E	F max	F min	H	J	K	L	M max	M min	N max	N min	O max	O min	P	R	S
SM-ODD 04		110	60	80	25	98	37	34.5	5	14	60	M10	30	23	10.5	3.5	19	12	20	25	3-M8
SM-ODD 05		130	80	100	28	118	44	41.5	5	14	70	M12	35	28	10.5	3.5	19	12	25	30	3-M8
SM-ODD 06		165	140	104.8	32	-	58	54.4	5	16	85	M16	45	35	14	4	33	23	36	35	6-M10
SM-ODD 08		210	190	133.4	38	-	71	67.4	5	18	95	M20	55	45	14	4	38	28	36	40	6-M12
SM-ODD 10		254	230	171.4	50	-	85	79.6	5	22	110	M24	65	50	19	4	47	32	46	50	6-M16
SM-ODD 12		304	230	171.4	52	-	102	96.6	5	27	125	M27	70	55	19	4	47	32	50	60	6-M16

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-ODD 04		5	7	50	15	5.9(600)	10.3(1050)	3500	4.5	0.29(0.03)	YAS-80
SM-ODD 05		5	7	65	15	9.8(1000)	16.8(1710)	3500	7.3	0.69(0.07)	YAS-80
SM-ODD 06		7.2	10	85	35	14.7(1500)	24.7(2520)	3500	13.8	1.76(0.18)	YAS-100
SM-ODD 08		7.2	10	200	40	24.5(2500)	44.1(4500)	3000	27	6.47(0.66)	YAS-125
SM-ODD 10		10.8	15	250	50	34.3(3500)	58.8(6000)	2500	45.8	14.7(1.5)	YAS-150
SM-ODD 12		10.8	15	300	50	44.1(4500)	73.5(7500)	2000	68	31.36(3.2)	YAS-150

2-JAW OUT-DIA DRAW DOWN CHUCK

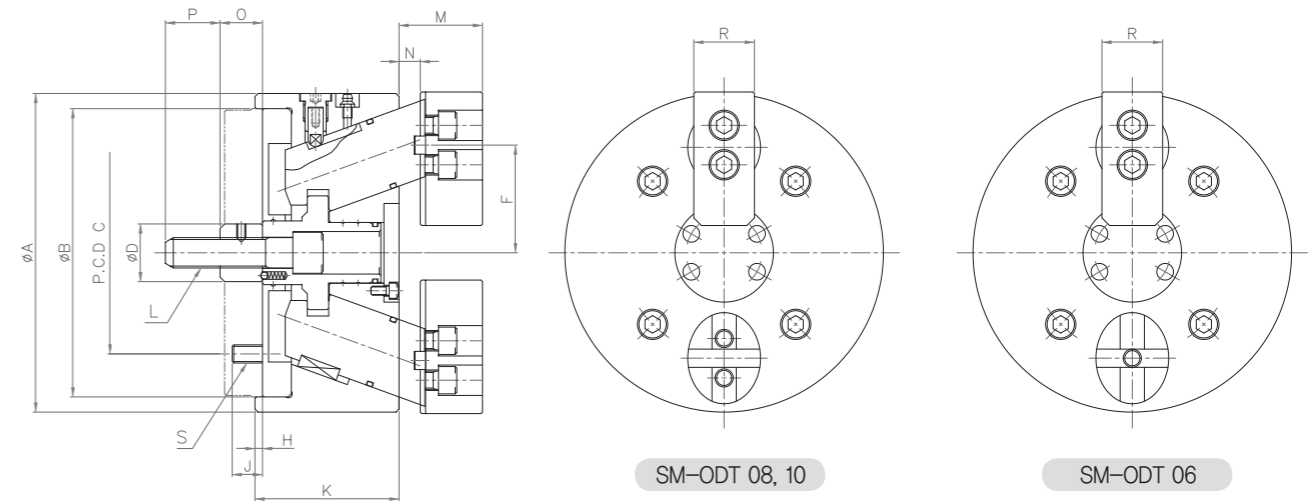
外径用2爪斜拉卡盘 / 2-조 외경용 드로우다운 척

1. It is using at important of the parallelization degree.
When it does clamping the deformed material's(not rounding material's) by pulling.

1. 异型工件后拉夹紧, 因此对平行度要求较高时使用.

1. 원형이 아닌 이형 공작물을 끌어 당겨 CLAMP하므로, 평행도가 중요할 때 사용합니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B _{H7}	C	D	F max	F min	H	J	K	L	M max	M min	N max	N min	O max	O min	P	R	S
SM-ODT 06		165	140	104.8	32	58	54.5	5	16	85	M16	49	39	18	8	34	23	36	35	4-M10
SM-ODT 08		210	190	133.4	38	71	67.5	5	18	95	M20	59	49	18	8	39	28	38	40	4-M12
SM-ODT 10		254	230	171.4	50	85	79.9	5	22	110	M24	69	55	23	9	48	32	46	50	4-M16

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-ODT 06		7	11	85	35	9.8(1000)	15.7(1600)	2500	14	1.4(0.14)	YAS-80
SM-ODT 08		7	11	200	40	16.7(1700)	27.5(2800)	2200	26	2.6(2.55)	YAS-100
SM-ODT 10		10.2	16	250	50	24.5(2500)	39.2(4000)	1800	42	4.2(4.12)	YAS-125

3-JAW INNER-DIA DRAW DOWN CHUCK

内径用3爪斜拉卡盘 / 3-조 내경용 드로우다운 척

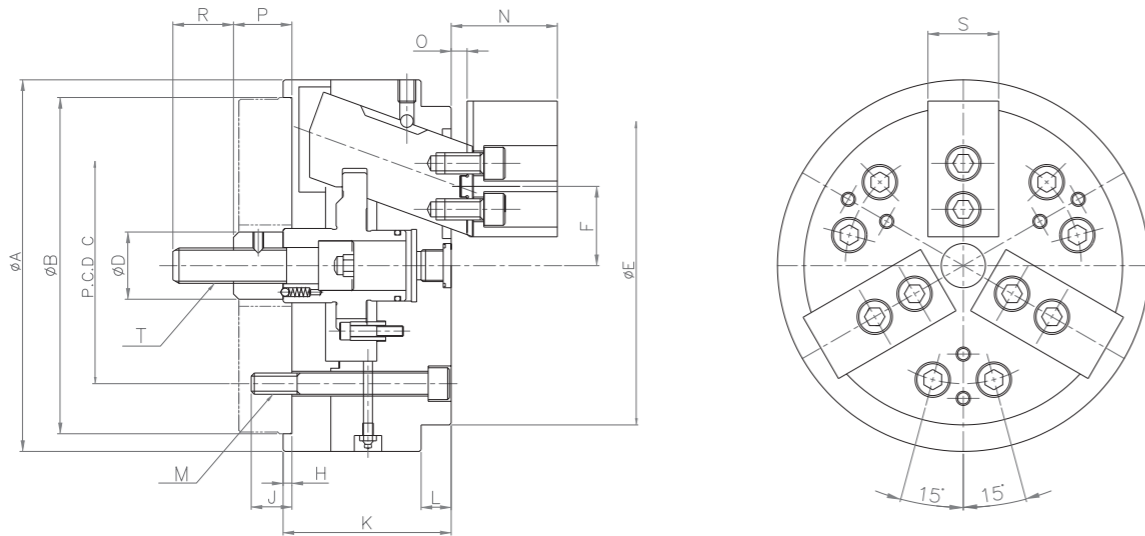


1. This is an inner-dia clamping chuck. Which is using at the machining material's finishing process.
2. It is using at important of the parallelization degree. When it does clamping the machining material by pulling.
3. It can clamping more bigger than machining material's of the pin arbor chuck.

1. 用于精加工工序，夹紧内径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 可以夹紧比销柱式卡盘的加工工件还大的工件。

1. 가공물의 사상 공정에 사용되는 내경 CLAMP 용도의 적입니다.
2. 가공물을 끌어 당기며 CLAMP하므로 평행도가 중요할 때 사용합니다.
3. PIN ARBOR CHUCK의 가공소재 보다 큰 공작물을 CLAMP할 수 있습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

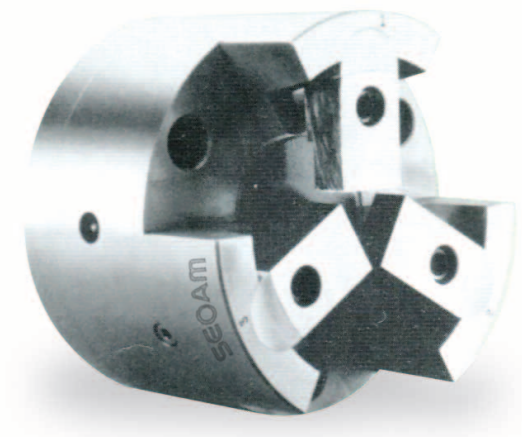
Model	Symbol	A	B _{H7}	C	D	E	F max	F min	H	J	K	L	M	N max	N min	O max	O min	P max	P min	R	S	T
SM-IDD 06		165	140	104.8	32	140	37.9	35	5	16	80	15	6-M10	42	34	12	4	31	23	36	35	M16
SM-IDD 08		210	190	133.4	38	180	46.6	43	5	18	95	17	6-M12	55	45	14	4	38	28	36	40	M20
SM-IDD 10		254	230	171.4	50	220	57.9	52.5	5	22	110	20	6-M16	65	50	19	4	47	32	46	50	M24
SM-IDD 12		304	230	171.4	52	250	65.4	60	5	27	125	25	6-M16	70	55	19	4	47	32	50	60	M27

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-IDD 06		5.8	8	140	40	14.7(1500)	24.7(2520)	5000	13	0.44(0.045)	YAS-80
SM-IDD 08		7.2	10	180	48	24.5(2500)	44.1(4500)	4500	26	1.67(0.17)	YAS-100
SM-IDD 10		10.8	15	220	65	34.3(3500)	58.8(6000)	4000	43.5	3.72(0.38)	YAS-125
SM-IDD 12		10.8	15	270	80	44.1(4500)	73.5(7500)	3500	68	7.15(0.73)	YAS-150

3-JAW OUT-DIA PIN ARBOR CHUCK

销柱式外径用精密动力卡盘 / 3-조 외경용 핀아버 척

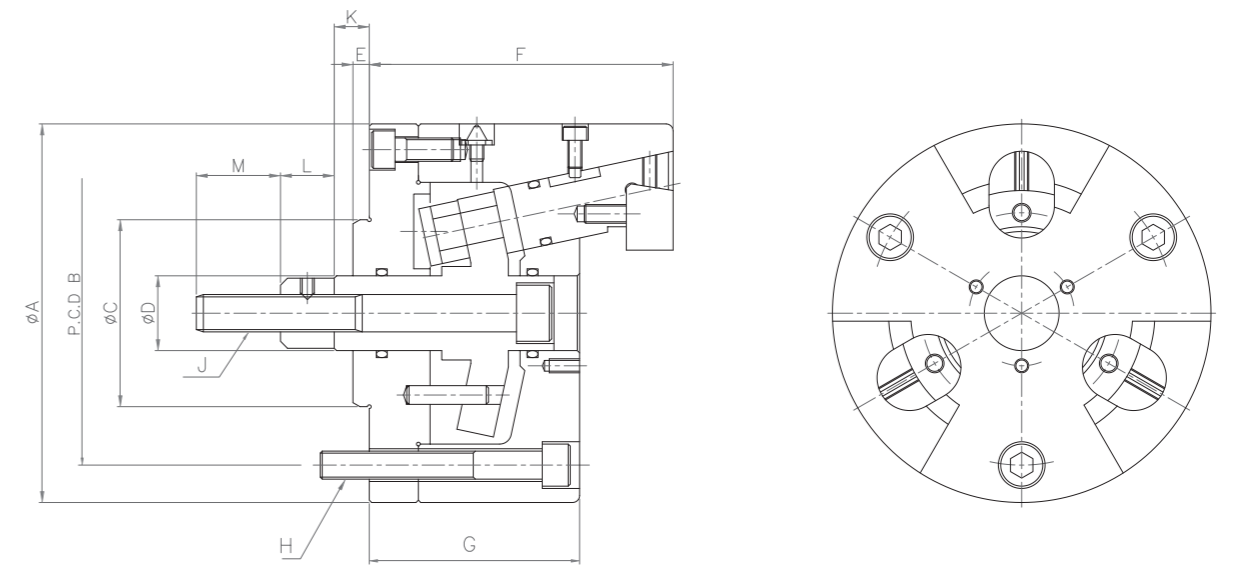


1. This is an out-dia clamping chuck. Which is using at the machining material's finishing process.
2. It is using at important of the parallelization degree. When it does clamping the machining material by pulling.
3. It can getting the fixation degree of concentricity more than the draw down chuck.

1. 用于精加工工序，夹紧外径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 加工后比后拉式卡盘的同心度更高。

1. 가공물의 사상공정에 사용되는 외경 CLAMP 용도의 적입니다.
2. 가공물을 끌어 당기며 CLAMP하므로 평행도가 중요할 때 사용합니다.
3. DRAW DOWN CHUCK보다 더 고정도의 동심도를 얻을 수 있습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

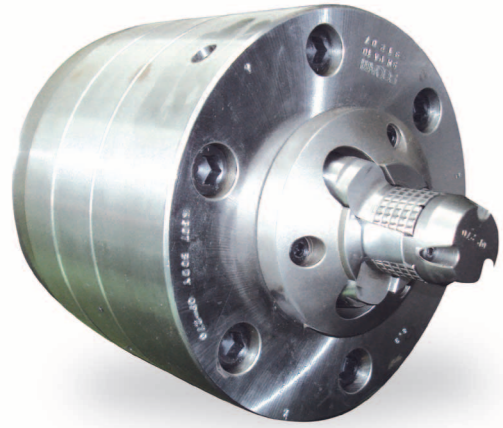
Model	Symbol	A	B	C _{H7}	D	E	F	G	H	J	K max	K min	L	M
SM-OPA 80		130	100	60	24	5	103	72	3-M8	M12	12	8	14	25
SM-OPA 100		162	130	80	30	7	130	90	3-M12	M16	12	8	14	36
SM-OPA 140		210	170	80	40	7	155	100	3-M16	M16	18	8	23	36
SM-OPA 180		250	210	80	45	7	165	110	3-M16	M18	18	8	28	36
SM-OPA 230		320	270	120	50	7	200	130	6-M16	M20	23	13	28	36

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Pin Arbor Jaw	Top Jaw						
SM-OPA 80		3.4	8	65~80	15~60	11.7(1200)	54(5500)	4000	8	0.66(0.067)	YAS-80
SM-OPA 100		4.2	10	86~100	20~80	19.6(2000)	92.2(9400)	3600	16	1.96(0.2)	YAS-100
SM-OPA 140		4.2	10	120~140	60~110	24.5(2500)	114.8(11700)	3400	27	5.29(0.54)	YAS-125
SM-OPA 180		4.2	10	150~180	100~145	29.4(3000)	137.4(14000)	3000	46	14.01(1.43)	YAS-125
SM-OPA 230		4.2	10	-	120~200	39.2(4000)	176.7(18000)	2500	70	34.3(3.5)	YAS-150

3-JAW INNER-DIA PIN ARBOR CHUCK

销柱式内径用精密动力卡盘 / 3-조 내경용 핀아버 척

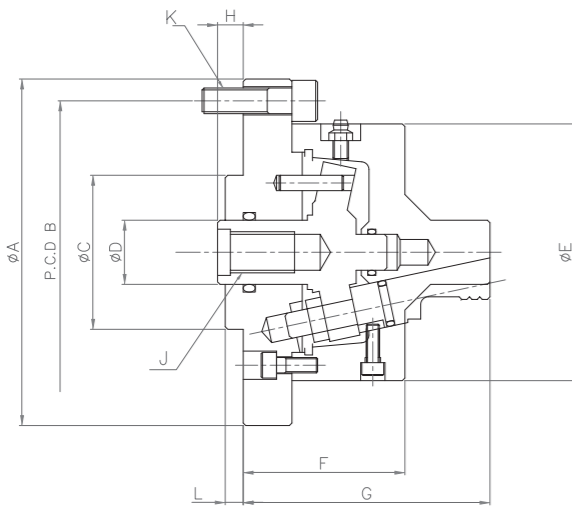


1. This is an inner-dia clamping chuck. Which is used in the finishing process of machining material.
2. It is used at an important degree of parallelization. When clamping the machining material by pulling.
3. It can get the fixation degree of concentricity more than the draw down chuck.

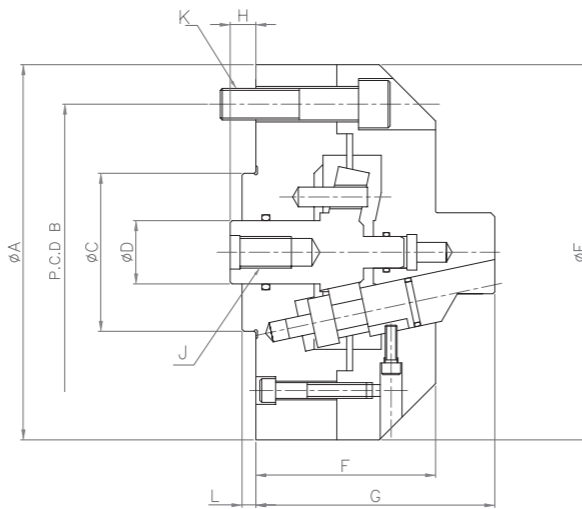
1. 用于精加工工序，夹紧内径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 加工后比后拉式卡盘的同轴度更高。

1. 가공물의 사상공정에 사용되는 내경 CLAMP 용도의 척입니다.
2. 가공물을 끌어 당기며 CLAMP하므로 평행도가 중요할 때 사용합니다.
3. DRAW DOWN CHUCK보다 더 고정도의 동심도를 얻을 수 있습니다.

Outward Drawing • 外型图 • 외형도



SM-IPA 25, 35



SM-IPA 55, 75, 100

Dimension • 尺寸 • 치수표

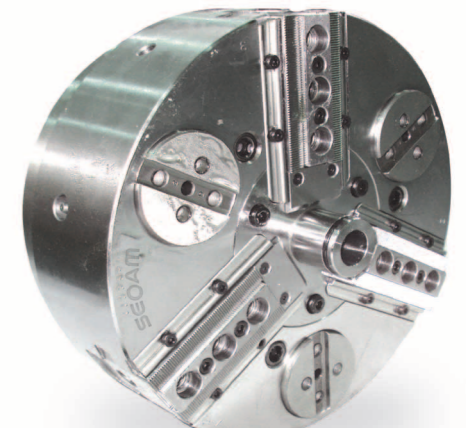
Model	Symbol	A	B	C ₇	D	E	F	G	H max	H min	J	K	L
SM-IPA 25		135	118	60	20	85	60	87	12	8	M12	3-M10	8
SM-IPA 35		135	118	60	25	98.5	63	95.4	12	8	M16	3-M10	8
SM-IPA 55		190	150	80	32	-	93	127	18	8	M16	3-M16	8
SM-IPA 75		225	180	80	50	-	115	139.5	18	8	M24	6-M16	8
SM-IPA 100		270	180	120	50	-	130	170	23	13	M24	6-M16	13

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Pin Arbor Jaw	Top Jaw						
SM-IPA 25		1.7	4	17~25	-	11.8(1200)	22.1(2250)	5000	3.5	0.13(0.013)	YAS-80
SM-IPA 35		1.7	4	25~40	48~60	17.6(1800)	33.1(3380)	4500	4.3	0.25(0.026)	YAS-100
SM-IPA 55		4.2	10	35~55	62~90	29.4(3000)	55.3(5640)	3500	18.4	3.23(0.33)	YAS-125
SM-IPA 75		4.2	10	55~76	85~130	37.2(3800)	70.1(7150)	2500	35	8.62(0.88)	YAS-125
SM-IPA 100		4.2	10	80~110	120~180	37.2(3800)	70.1(7150)	1800	55	19.60(2.00)	YAS-150

3-JAW OUT-DIA PULL DOWN CHUCK

外径用3爪后拉卡盘 / 3-조 외경용 풀다운 척

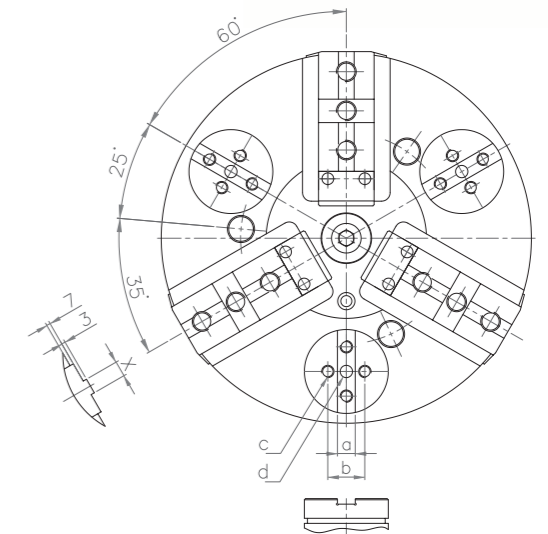
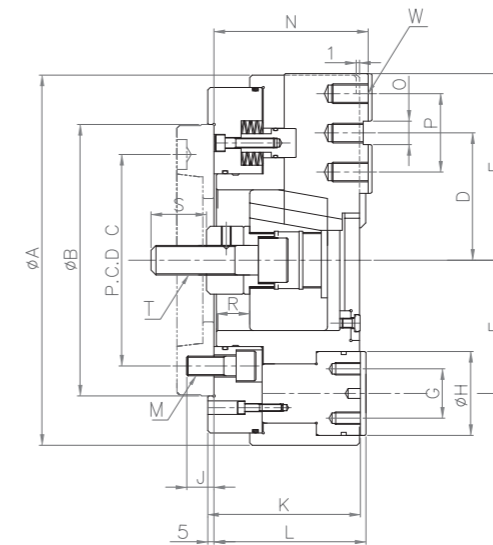


1. It is able to use by all-purpose as like standard hydraulic chuck. And also, it is used to out-dia clamp.
2. It is used at an important degree of parallelization. Which has the function of pulling the machining material.
3. The base jaw is able to supply by serration type when the customer requirement.

1. 与标准液压卡盘一样具有很多功能可使用，并且用于夹紧工件外径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 客户要求时锯齿型的基爪也可供给。

1. 표준 유압척과 같이 다용도로 사용할 수 있으며, 외경 CLAMP 용도로 사용합니다.
2. 공작물을 끌어 당기는 기능이 있어 평행도가 중요할 때 사용합니다.
3. 고객 요청시에는 BASE JAW는 SERRATION TYPE으로도 공급 가능합니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B ₁₇	C	D max	D min	E	F	G	H	J	K	L	M
SM-PDO 200		200	170	133.4	71.5	67.3	103	70	24	42	17	105	105	3-M12
SM-PDO 250		250	220	171.4	87	81.7	128	87	30	50	21	115	115	3-M16
SM-PDO 300		300	220	171.4	105	99	153	108	40	68	21	123	123	3-M16
SM-PDO 380		380	235	235	133.5	127.5	193	130	54	80	28	135	135	3-M20

Model	Symbol	N	O	P	R max	R min	T	W	X	a	b	c	d
SM-PDO 200		107	12.7	44.5	34	10	M12	M12	7.94	12	24	M8	6
SM-PDO 250		117	19	54	34	4	M20	M16	12.7	14	30	M10	8
SM-PDO 300		125	19	63.5	39	5	M24	M16	12.7	14	40	M10	8
SM-PDO 380		137	19	76.2	50	16	M24	M20	12.7	18	54	M12	8

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	Stops tractions KN(kgf)	Matching cylinder
				Max	Min						
SM-PDO 200		8.46	24	200	23	30(3061)	80(8163)	3600	21	1.98(204)	YAS-125
SM-PDO 250		10.57	30	250	24	40(4081)	108(11020)	3000	37	3.53(306)	YAS-125
SM-PDO 300		11.99	34	300	26	50(5102)	135(13775)	2500	54	3.53(306)	YAS-150
SM-PDO 380		11.99	34	380	60	60(6122)	165(16836)	1600	95	4.46(459)	YAS-200

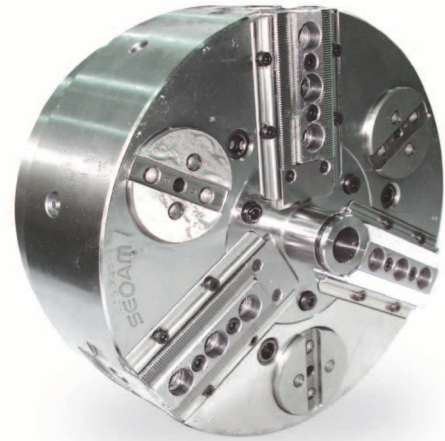
3-JAW INNER-DIA PULL DOWN CHUCK

内径用3爪后拉卡盘 / 3-조 내경용 풀다운 척

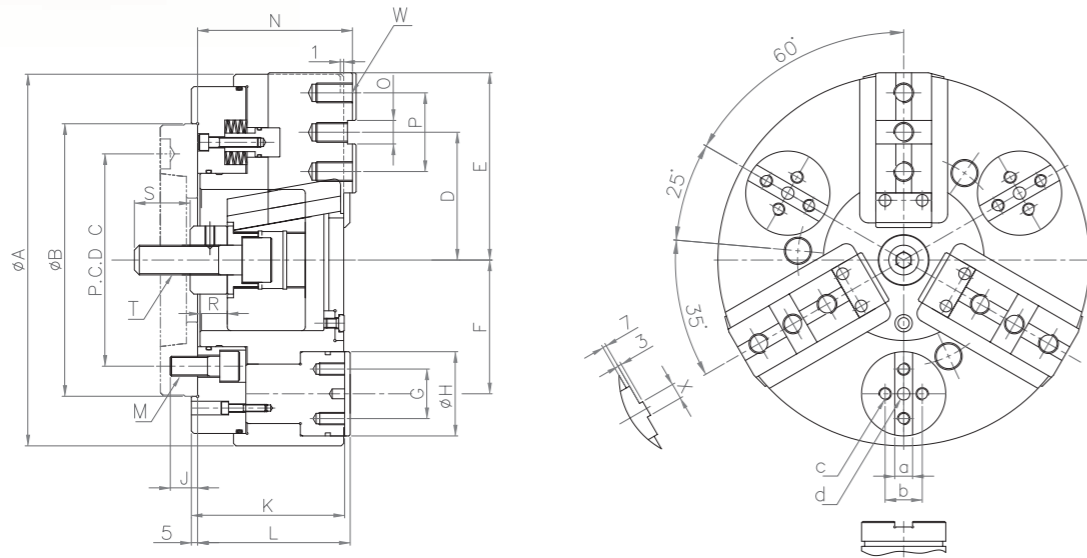
1. It is able to using by all-purpose as like standard hydraulic chuck. And also, it using to inner-dia clamp.
2. It is using at important of the parallelization degree. Which has the function of pulling the machining material.
3. The base jaw is able to supply by serration type when the customer requirement.

1. 与标准液压卡盘一样具有很多功能可使用，并且用于夹紧工件内径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 锯齿型基爪根据客户要求也可设计。

1. 표준 유압척과 같이 다용도로 사용할 수 있으며, 내경 CLAMP 용도로 사용합니다.
2. 공작물을 끌어 당기는 기능이 있어 평행도가 중요할 때 사용합니다.
3. 고객 요청시에는 BASE JAW는 SERRATON TYPE으로도 공급 가능합니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B _{H7}	C	D max	D min	E	F	G	H	J	K	L	M
SM-PDI 200		200	170	133.4	71.5	67.3	98.8	70	24	42	17	105	105	3-M12
SM-PDI 250		250	220	171.4	87	81.7	122.7	87	30	50	21	115	115	3-M16
SM-PDI 300		300	220	171.4	105	99	147	108	40	68	21	123	123	3-M16
SM-PDI 380		380	300	235	133.5	127.5	187	130	54	80	28	135	135	3-M20

Model	Symbol	N	O	P	R max	R min	T	W	X	a	b	c	d
SM-PDI 200		107	12.68	44.5	34	10	M12	M12	7.94	12	24	M8	6
SM-PDI 250		117	19.03	54	34	4	M20	M16	12.7	14	30	M10	8
SM-PDI 300		125	19.03	63.5	39	5	M24	M16	12.7	14	40	M10	8
SM-PDI 380		137	19.03	76.2	50	16	M24	M20	12.7	18	54	M12	8

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	Stops tractions KN(kgf)	Matching cylinder
				Max	Min						
SM-PDI 200		8.46	24	140	40	30(3061)	80(8163)	3600	21	1.98(204)	YAS-125
SM-PDI 250		10.57	30	180	48	40(4081)	108(11020)	3000	37	3.53(306)	YAS-125
SM-PDI 300		11.99	34	220	65	50(5102)	135(13775)	2500	54	3.53(306)	YAS-150
SM-PDI 380		11.99	34	270	80	60(6122)	165(16836)	1600	95	4.46(459)	YAS-200

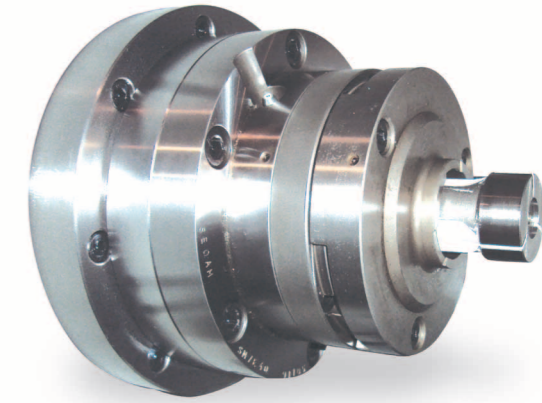
INNER-DIA CLAMP COLLET CHUCK

内径用涨套卡盘 / 내경용 콜릿 척

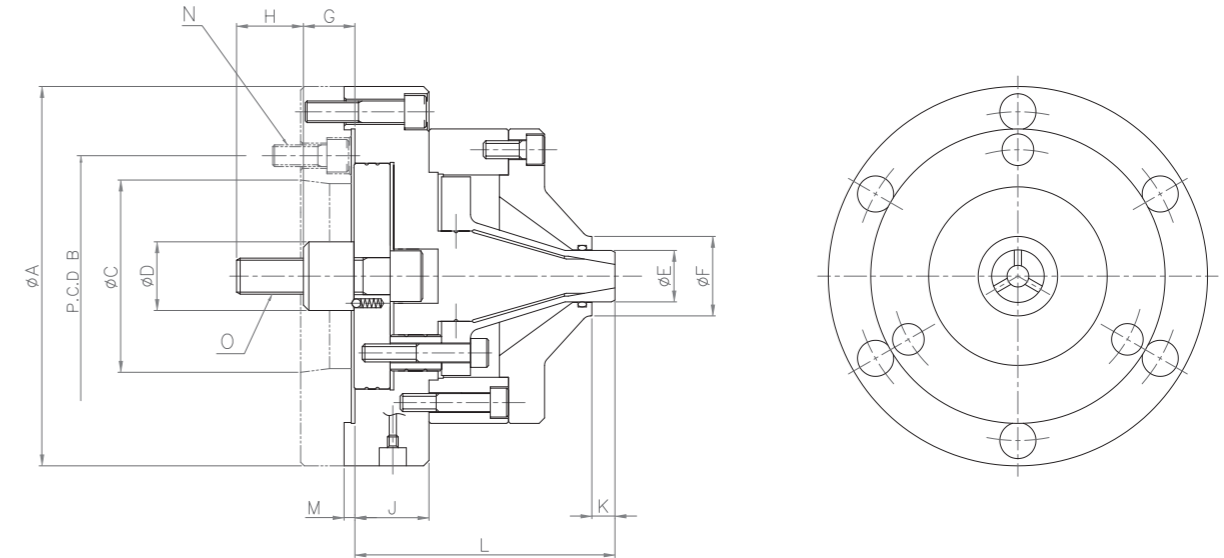
1. This is a collet chuck for inner-dia clamp. Which is using at machining finishing and grinding process.
2. It is using at important of the parallelization degree. When it does clamping the machining material by pulling.
3. Especially, it is superior of thin material's more than 3-jaws type chuck's material.

1. 工件的精加工和研磨工序及夹紧内径。
2. 后拉夹紧工件，因此对平行度要求较高时使用。
3. 适合薄壁工件的加工。

1. 가공물의 사상 및 연삭 공정에 사용되는 내경 CLAMP 용도의 콜릿 척입니다.
2. 가공물을 끌어 당겨서 CLAMP하므로 평행도가 중요할 때 사용됩니다.
3. 3-JAW 형식 CHUCK의 가공소재 보다 얇은 가공물에 특히 유리합니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E max	E min	F	G max	G min	H	J	K	L	M	N	O
SM-IDC 06		160	104.8	82.565	35	60	25	E+24	29	25	40	35	15	115	6	M10	M16
SM-IDC 08		200	133.4	106.375	38	90	40	E+24	34	30	45	35	20	135	6	M12	M20
SM-IDC 10		250	171.4	139.72	50	130	90	E+24	34	30	55	35	35	180	6	M16	M24
SM-IDC 12		300	171.4	139.72	55	180	130	E+24	40	36	55	45	40	220	8	M16	M24

Specifications • 规格 • 사양표

Model	Spec.	Collet Range (diameter) mm	Cylinder Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-IDC 06		1.4	4	40	14	14.7(1500)	39.2(4000)	4500	6.8	0.59(0.060)	YAS-100
SM-IDC 08		1.4	4	90	40	24.5(2500)	68.7(7000)	4000	13.3	1.86(0.19)	YAS-125
SM-IDC 10		1.4	4	130	90	39.2(4000)	117.8(12000)	3300	34	6.96(0.71)	YAS-125
SM-IDC 12		1.4	4	180	130	47.1(4800)	147.2(15000)	2500	55	19.6(2.00)	YAS-140

OUT-DIA CLAMP COLLET CHUCK

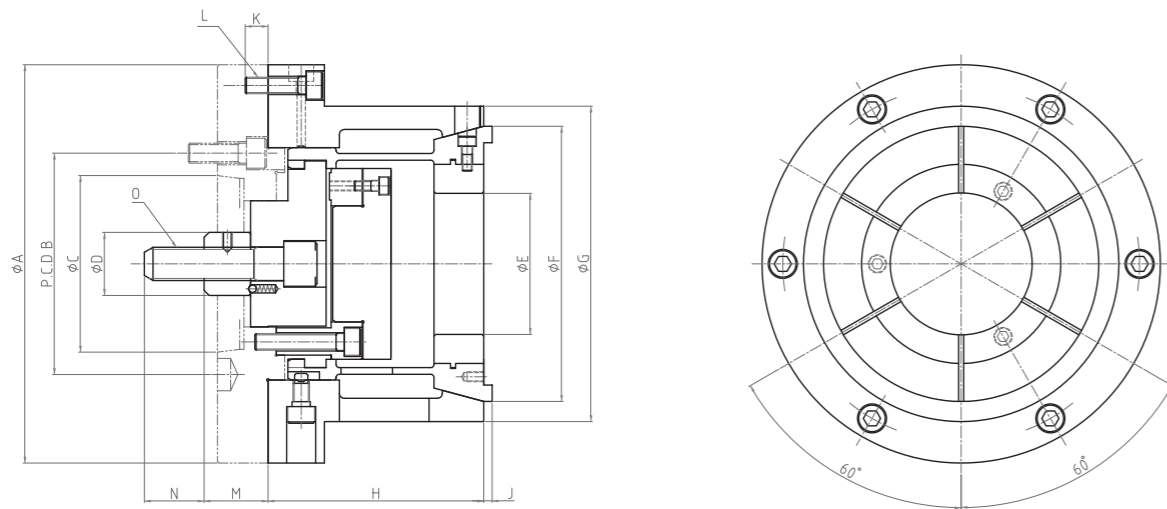
外径用涨套卡盘 / 외경용 콜릿 척

1. This is a collet chuck for out-dia clamp. Which is using at machining finishing and grinding process.
2. It is using at important of the parallelization degree. When it does clamping the machining material by pulling.
3. Especially, it is superior of thin material's more than 3-jaws type chuck's material.

1. 工件精加工和研磨工序及夹紧外径.
2. 后拉夹紧工件, 因此对平行度要求较高时使用.
3. 比三爪形式卡盘的加工更薄的工件时, 不易变形.

1. 가공물의 사상 및 연삭 공정에 사용되는 외경 CLAMP 용도의 콜릿 척입니다.
2. 가공물을 끌어 당겨서 CLAMP하므로 평행도가 중요할 때 사용됩니다.
3. 3-JAW 형식 CHUCK의 가공소재 보다 얇은 가공물에 특히 유리합니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E max	E min	F	G	H	J max	J min	K	L	M max	M min	N	O
SM-ODC 06		165	104.8	82.563	32	50	15	100	130	115	7	3	15	6-M12	42	38	36	M16
SM-ODC 08		210	133.4	106.375	38	90	40	148	185	125	7	3	17	6-M14	42	38	36	M20
SM-ODC 10		254	171.4	139.719	50	130	80	182	250	145	7	3	20	6-M16	52	48	46	M24
SM-ODC 12		304	171.4	139.719	52	180	100	230	390	170	7	3	20	6-M16	62	58	55	M27

Specifications • 规格 • 사양표

Model	Spec.	Collet Range (diameter) mm	Cylinder Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min						
SM-ODC 06		1.4	4	50	15	14.7(1500)	27.45(2800)	4500	11	1.08(0.11)	YAS-100
SM-ODC 08		1.4	4	80	40	24.5(2500)	45.10(4600)	4000	23	4.31(0.44)	YAS-125
SM-ODC 10		1.4	4	130	80	34.31(3500)	63.73(6500)	3300	49	17.25(1.76)	YAS-125
SM-ODC 12		1.4	4	180	100	39.22(4000)	73.53(7500)	2500	67	30.38(3.1)	YAS-140

OUT-DIA CLAMP RUBBER COLLET CHUCK

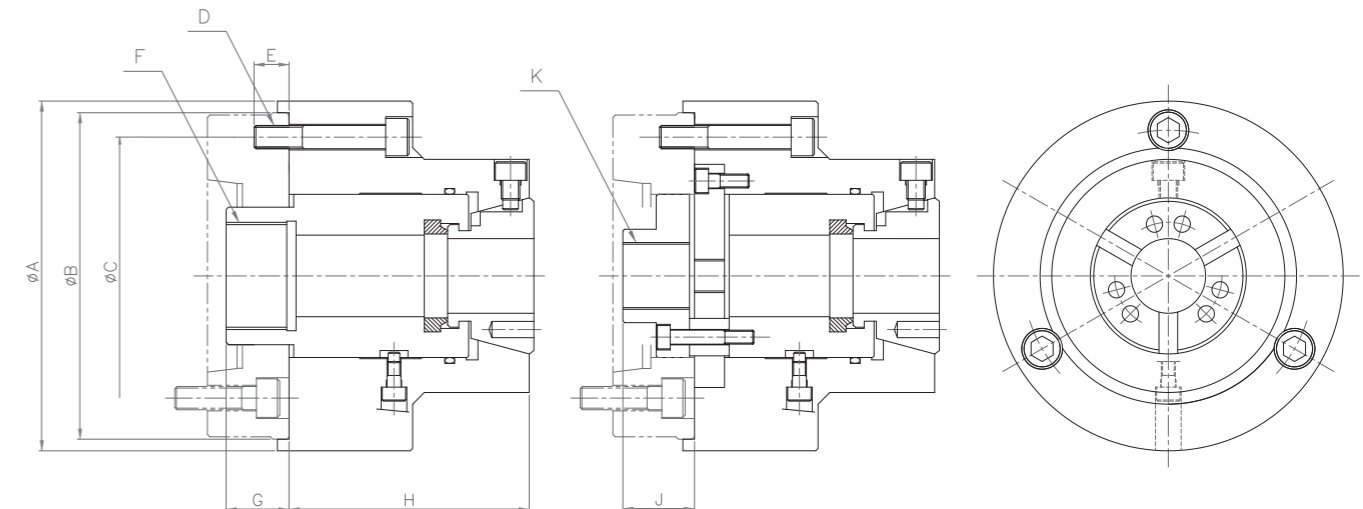
外径用注胶型涨套卡盘 / 외경용 루버 콜릿 척

1. This is out-dia clamping chuck. The collet bound by 3 pieces of rubber.
2. It can getting the high precision degree of concentricity. And also, it has long life by low damaged of collet.
3. The model change time is shorter than other model of collet chuck.

1. 涨套是3片橡胶粘接的, 并夹紧外径.
2. 涨套的破损率低, 使用寿命很长, 可以获得高精度的同心度.
3. 涨套更换方便.

1. COLLET은 3개의 조각이 고무로 접합되어 있으며, 외경 CLAMP 용도의 척입니다.
2. COLLET 파손이 적어 수명이 길고, 고정밀도의 동심도를 얻을 수 있습니다.
3. 기종 교환 시간이 다른 모델의 COLLET CHUCK에 비해 짧습니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

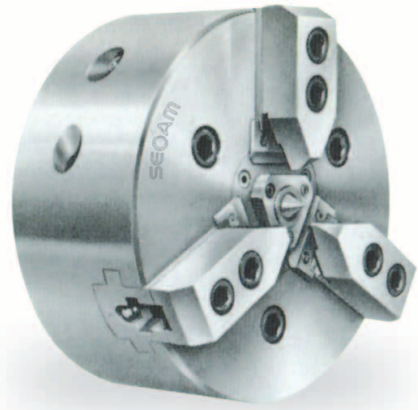
Model	Symbol	A	B _{H7}	C	D	E	F	G max	G min	H	J max	J min	K
SM-RBC 32		165	150	130	6-M10	18	M42X1.5	21.5	18.5	103	39	36	M24X3.0
SM-RBC 50		165	150	130	6-M10	18	M55X2.0	26.5	23.5	103	39	36	M24X3.0
SM-RBC 65		180	170	150	6-M12	18	M75X2.0	30.0	27.0	119	43	40	M30X3.0
SM-RBC 90		210	200	180	6-M12	18	M78X2.0	32.0	29.0	133	48	45	M30X3.0

Specifications • 规格 • 사양표

Model	Spec.	Collet Range (diameter) mm	Cylinder Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	GD ² N-m ² (Kgf-m ²)
				Max	Min					
SM-RBC 32		1.4	4	32	7	14.7(1500)	39.2(4000)	4500	6.8	0.59(0.060)
SM-RBC 50		1.4	4	50	12	24.5(2500)	68.7(7000)	4000	13.3	1.86(0.19)
SM-RBC 65		1.4	4	65	16	39.2(4000)	117.8(12000)	3300	34	6.96(0.71)
SM-RBC 90		1.4	4	90	30	47.1(4800)	147.2(15000)	2500	55	19.6(2.00)

3-JAW COMPENSATING CHUCK

3爪补偿型卡盘 / 3-조 컴펜싱 척

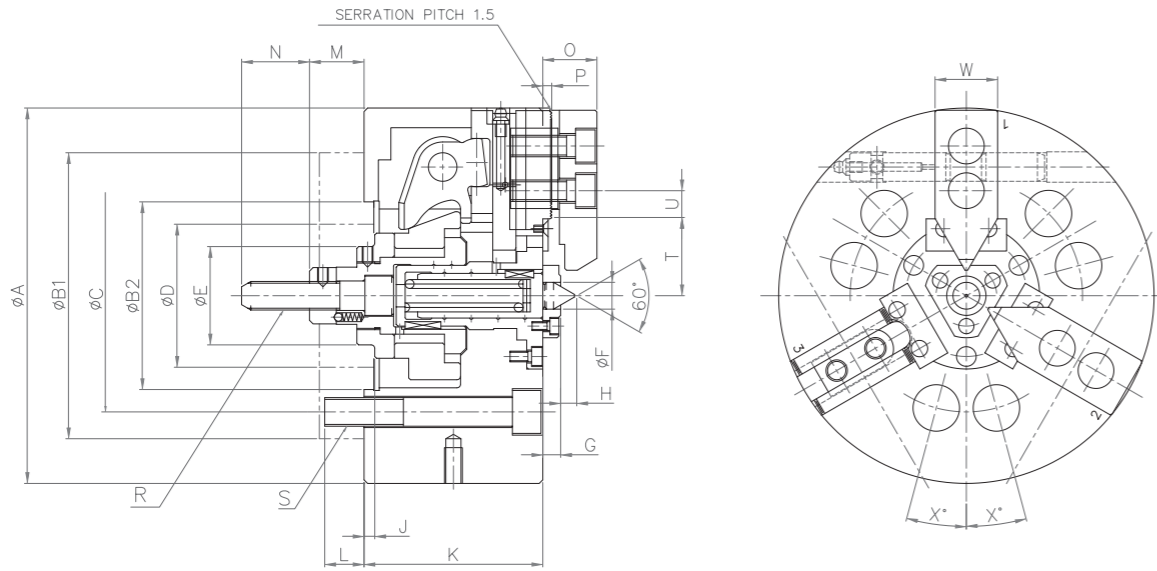


1. This is a shaft machining chuck only.
2. It can using the spring center. When there are cross section's distance control. And also, It can using the dead center. When they required fixation degree about the center.

1. 加工轴类的专用卡盘.
2. 轴向尺寸有要求时使用弹簧顶尖, 对中心孔要求高精度时可使用死顶尖.

1. SHAFT 가공 전용 CHUCK 입니다.
2. 단면의 거리 규제가 있을 경우는 SPRING CENTER를 사용하며, CENTER에 대해 고정도를 요구시에는 DEAD CENTER를 사용할 수 있습니다.

Outward Drawing · 外形图 · 외형도



Dimension · 尺寸 · 치수표

Model	Cymbol	A	B1	B2 _{H7}	C	D	E	F	G	H	J	K	L	M max
SM-COS 06		175	160	90	130	70	60	10.4	10	9	5	90	22	47
SM-COS 08		210	160	105	130	82	70	10.4	10	9	5	100	22	50.5
SM-COS 10		254	180	120	150	92	80	12.7	12	11	5	110	22	57
SM-COS 12		304	216	140	170	98	85	12.7	12	11	5	125	22	61

Model	Cymbol	M min	N	O	P	R	S	T max	T min	U max	U min	W	X
SM-COS 06		32	38	27.5	5	M16	3-M16	38.8	35.3	16.5	6	31	---
SM-COS 08		30.5	38	30	5	M16	3-M16	43.8	39.8	21	7.5	35	---
SM-COS 10		32	38	33	5	M20	3-M16	48.8	43.8	27.5	8	40	---
SM-COS 12		36	46	36	5	M24	6-M16	50.8	45.8	39.5	9.5	45	15°

Specifications · 规格 · 사양표

Model	Spec.	Compensation mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N·m ² (Kg·m ²)	Matching cylinder
					Max	Min						
SM-COS 06		2	7	15	33	15	11.8(1200)	23.5(2400)	2800	16	0.57(0.058)	YAS-80
SM-COS 08		2	8	20	38	18	17.7(1800)	41.2(4200)	2800	25	1.27(0.13)	YAS-100
SM-COS 10		2	10	25	52	22	23.5(2400)	58.8(6000)	2400	37.5	2.94(0.3)	YAS-125
SM-COS 12		2	10	25	73	25	29.4(3000)	73.5(7500)	2000	59.7	6.86(0.7)	YAS-125

3-JAW COMPENSATING CHUCK(SWING TYPE)

3爪补偿型卡盘(浮动型) / 3-조 스윙형 컴펜싱 척

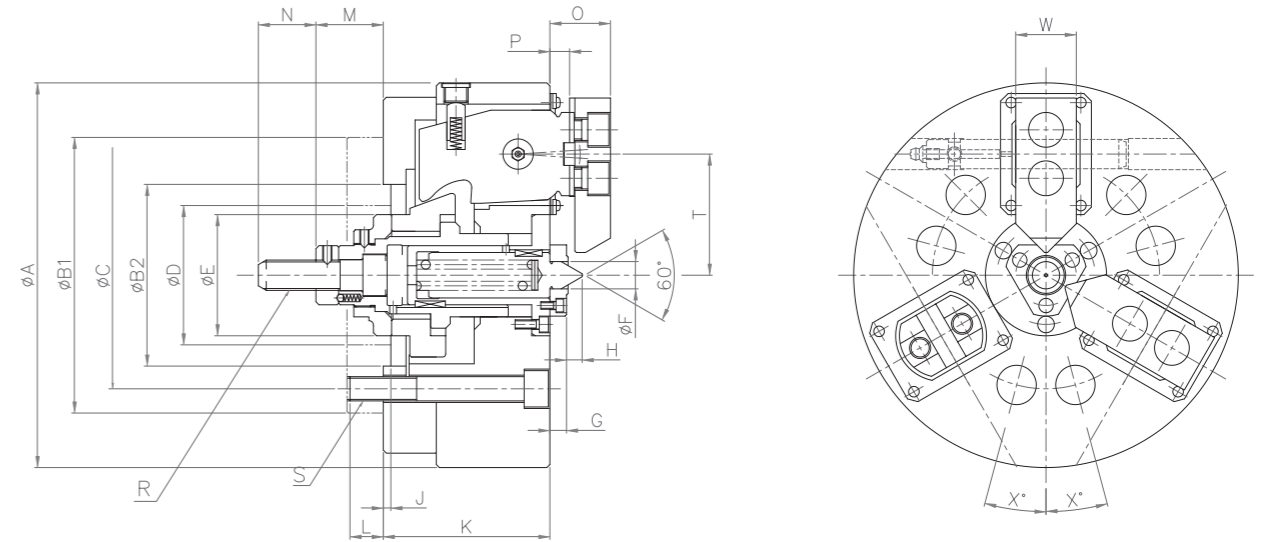


1. This is a shaft machining chuck only.
2. It can using the spring center. When there are cross section's distance control. And also, It is able to obtaining the high precision degree by the chuck Jaw's pulling function. Furthermore, It can using the dead center. When they required fixation degree about the center.

1. 加工轴类的专用卡盘.
2. 要求端面距离限定时使用弹簧顶尖, 卡爪具有后拉夹紧的功能因此可得到高精度. 对中心要求高精度时可使用死顶尖.

1. SHAFT 가공 전용 CHUCK 입니다.
2. 단면의 거리 규제가 있을 경우 SPRING 센터를 사용하며, 척조가 끌어 당기는 기능이 있어 고정밀도를 얻을 수 있습니다. 또한, CENTER에 대해 고정도를 요구시에는 DEAD CENTER를 사용할 수 있습니다.

Outward Drawing · 外形图 · 외형도



Dimension · 尺寸 · 치수표

Model	Cymbol	A	B1	B2 _{H7}	C	D	E	F	G	H	J	K	L
SM-COD 06		175	160	90	160	70	60	8	15	6.9	5	80	22
SM-COD 08		210	160	105	160	82	70	10.4	10	9	5	100	22
SM-COD 10		254	180	120	180	92	80	12.7	12	11	5	110	22
SM-COD 12		304	216	140	216	98	85	12.7	12	11	5	120	22

Model	Cymbol	M max	M min	N	O	P	R	S	T max	T min	W	X
SM-COD 06		47	32	38	33	10	M16	3-M16	57	53	31	---
SM-COD 08		50.5	30.5	38	38	12	M16	3-M16	68	64	40	---
SM-COD 10		57	32	38	40	13	M20	3-M16	82.5	77.5	40	---
SM-COD 12		61	36	46	51	14	M24	3-M16	102.5	97.5	50	15°

Specifications · 规格 · 사양표

Model	Spec.	Compensation mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Max. Gripping Dia mm	Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N·m ² (Kg·m ²)	Matching cylinder
SM-COD 08	2	8	20	65	19.6(2000)	53(5400)	2800	23	1.27(0.13)	YAS-125	
SM-COD 10	2	10	25	90	29.4(3000)	67.7(6900)	2400	37	2.74(0.28)	YAS-125	
SM-COD 12	2	10	25	110	39.2(4000)	88.3(9000)	2000	54	6.37(0.65)	YAS-140	

COMBINATION CHUCK WITH FACE DRIVER & FINGER

复合型卡盘(端面驱动卡盘 & 指形卡盘) / 콤비네이션 척

APPLICATION

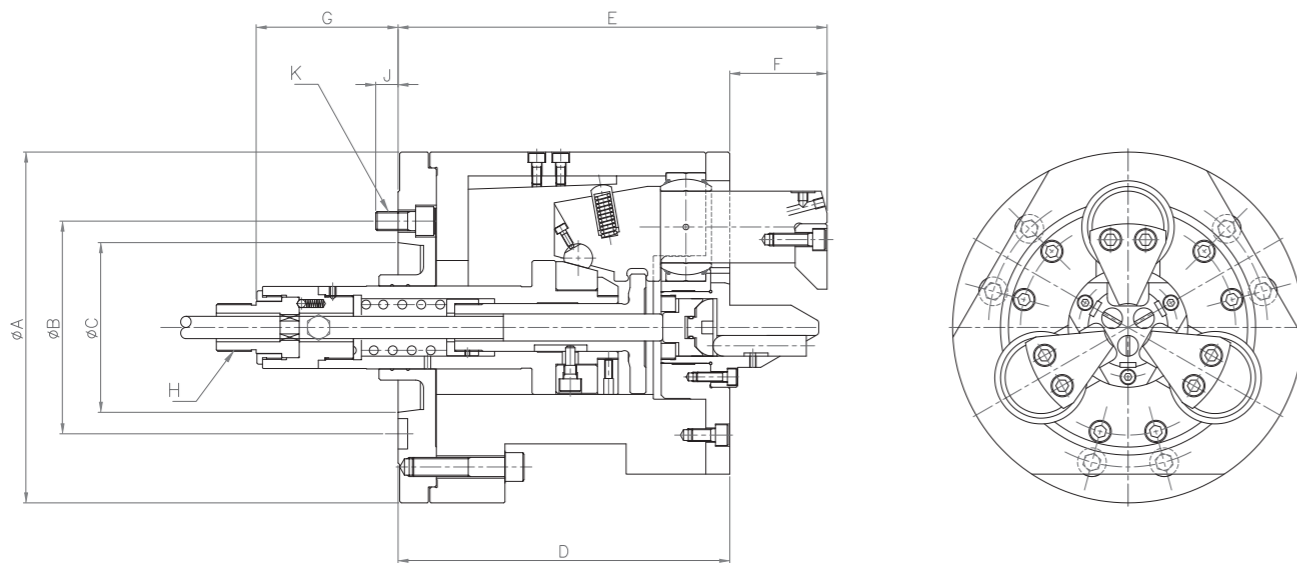


1. This is a shaft machining chuck only.
2. Where installed the face driver,
When You can complete machining by just one time if you have the two times needed machining materials.
3. It needs double cylinder.

1. 是用于加工轴类的专用卡盘.
2. 安装端驱, 可以把两个工序合为一个工序.
3. 需要双活塞回转油缸.

1. SHAFT 가공 전용 CHUCK 입니다.
2. FACE DRIVER를 장착하면, 두번의 공정이 필요한 가공물을 한번의 공정으로 완가공할 수 있습니다.
3. 2단 CYLINDER가 필요합니다.

Outward Drawing • 外型图 • 외형도

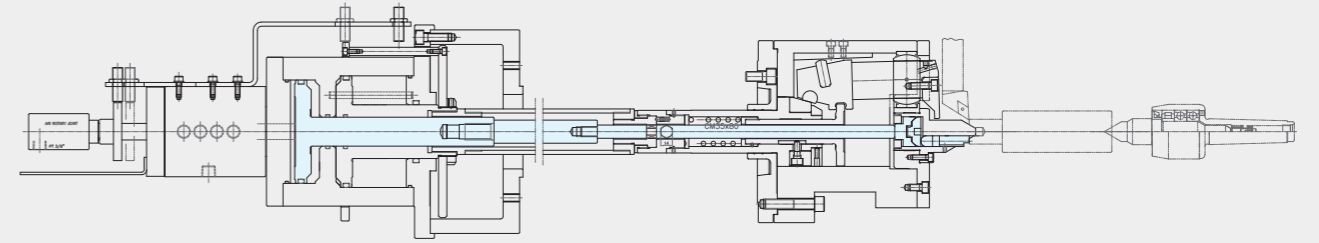


Dimension • 尺寸 • 치수표

Model	Cymbol	A	B	C	D	E max	E min	F	G max	G min	H	J	K
SM-CBN 230		230	133.4	106.375	233	290	235	55	186	108	M30X1.5	18	6-M12
SM-CBN 250		250	133.4	106.375	225	278	226	52	199	121	M40X1.5	18	6-M12
SM-CBN 300		300	171.4	139.719	244	306	251	55	141	66	M40X1.5	22	6-M16

Specifications • 规格 • 사양표

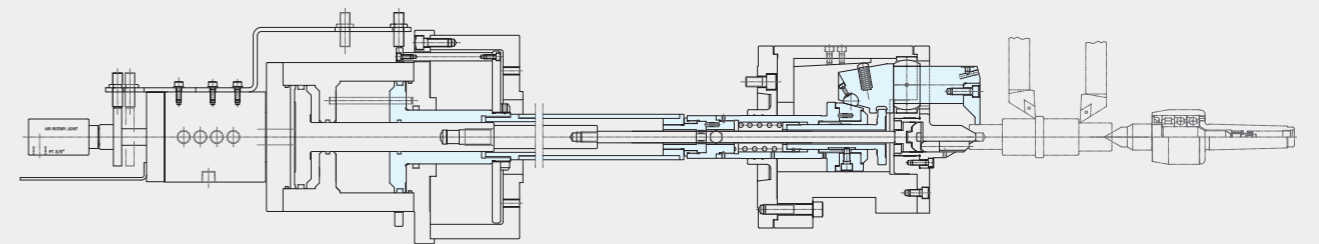
Model	Spec.	Face Driver mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight (With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder mm	
			Max	Min						Piston-1	Piston-2
SM-CBN 230		12-90	110	20	45(4580)	75(7600)	3500	68	4.12(0.42)	120/80	78/10
SM-CBN 250		12-100	110	25	75(7600)	100(10200)	3000	85	7.74(0.79)	160/80	78/10
SM-CBN 300		30-130	140	40	80(8150)	120(12200)	2500	120	13.23(1.35)	160/80	78/10



1. This process is preparatory machining where the chuck jaw's clamping.
When you doing process with the face driver. And also, it had must light cutting in this processing.

1. 此工序是加工卡爪夹紧的部位. 使端面驱动进行加工, 要实现轻切削.

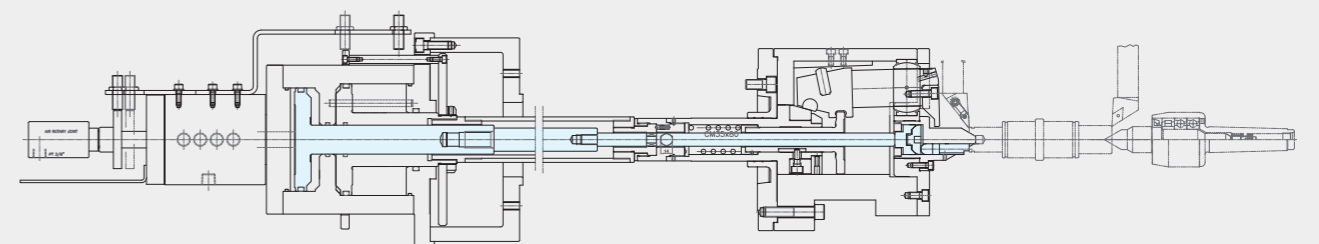
1. 이 공정은 CHUCK JAW가 CLAMP 할 곳을 예비 가공합니다. 이때는 FACE DRIVER를 이용하여 가공합니다. 이공정에서는 경질삭이 이루어져야 합니다.



2. This process is heavy cutting by the jaw's strong clamping.

2. 此工序是卡爪夹紧后进行重切削.

2. 이공정은 JAW가 강력하게 CLAMP하여 중적삭을 합니다.



3. This processing is finishing process, Which were executed by both centers standard. In this time, The chuck jaw must be backward state.
And also, The all of processing will be completed under rotation state. When it must light cutting completed by the face driver in this processing.

3. 此工序是精加工, 以两边中心为基准实行. 这时是要在卡爪后退的状态下实现, 并旋转中实现所有动作.
此工序使用端面驱动, 进行精加工.

3. 이공정은 사상가공이며 양센터를 기준으로 실행합니다. 이때는 CHUCK JAW가 후진 상태에서 이루어져야 하며, 회전중 모든 동작이 이루어집니다.
이 공정에서는 FACE DRIVER 에 의해 행해지므로 경질삭이 이루어져야 합니다.

3-JAW LONG STROKE LEVER CHUCK

3爪长行程杠杆卡盘 / 3-조 롱스트로크 레버 척

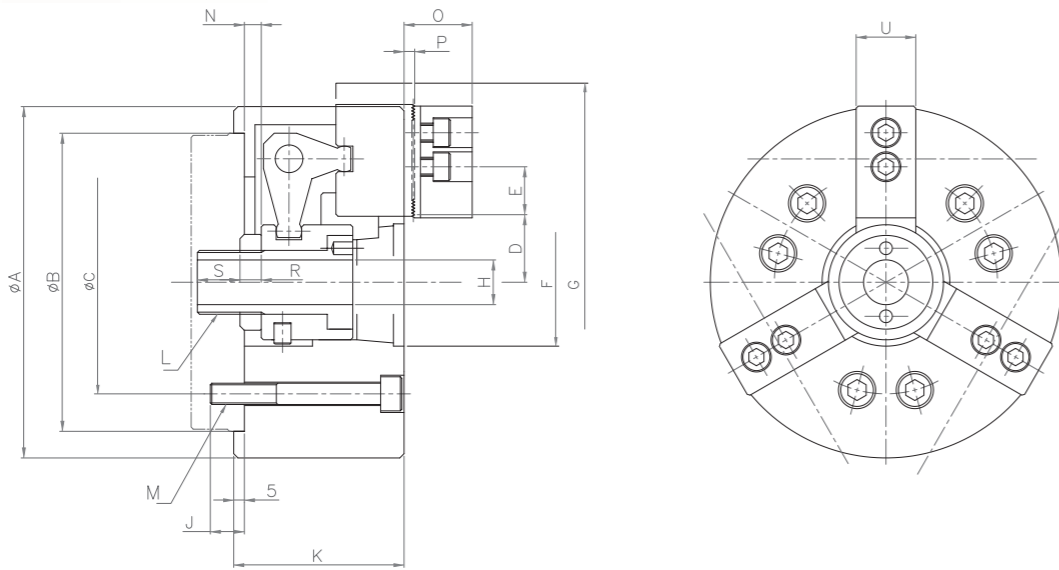
1. This chuck using to many process of jaw stroke volume.
2. It is not fitting to high precision degree or powerful cutting.

1. 카爪行程大而夹紧范围大时使用.
2. 要求高精密度或大切削量时不能用.

1. JAW STROKE량이 많이 필요한 공정에 사용되는 척입니다.
2. 고정밀도 혹은 강력절삭에는 적합하지 않습니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B _{H7}	C	D max	D min	E max	E min	F	G max	H	J
SM-LVL 06		165	140	104.8	39.8	23.8	30	9	60	185	21	16
SM-LVL 08		215	190	133.4	53.8	33.8	35	10	80	238	36	20
SM-LVL 10		254	230	133.4	67.3	46.3	37.5	13.5	105	280	55	17
SM-LVL 12		304	230	171.4	73.3	48.3	52	14	110	334	62	22

Model	Symbol	K	L	M	N max	N min	O	P	R	S	U
SM-LVL 06		80	M30X2.0	6-M10	18	-2	32	3	10	20	28
SM-LVL 08		93	M45X2.0	6-M12	21	-4	39	5	10	25	35
SM-LVL 10		111	M65X2.0	6-M12	26	-2	44	5	12	25	40
SM-LVL 12		130	M72X2.0	6-M16	31.5	-3.5	49	5	14	30	45

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max.permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max.permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)
				Max	Min					
SM-LVL 06		32	20	165	10	22.6(2300)	19.6(2000)	3600	11	0.37(0.038)
SM-LVL 08		40	25	215	28	31.4(3200)	27.5(2800)	3000	23	0.127(0.13)
SM-LVL 10		42	28	245	42	37.3(3800)	34.3(3500)	2400	34	2.74(0.28)
SM-LVL 12		50	35	304	20	49(5000)	48.1(4900)	2100	62	7.154(0.74)

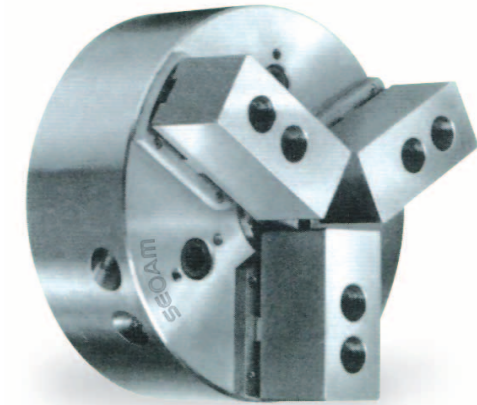
3-JAW POWER CHANGE CHUCK

3爪夹紧力变换动力卡盘 / 3-조 파워 체인지 척

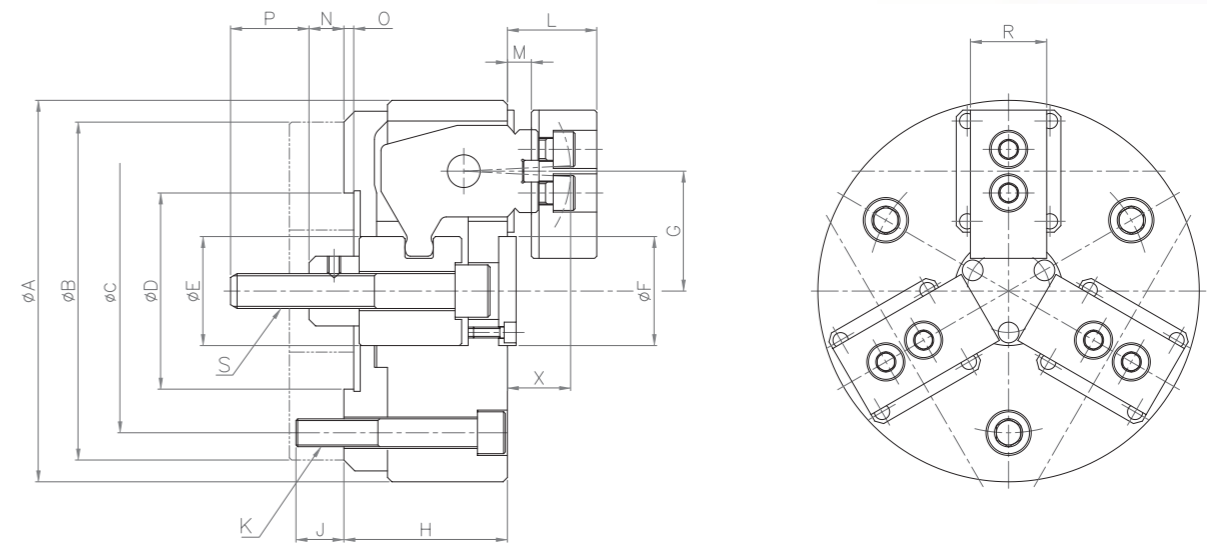
1. This chuck using to the chuck's grasp power control under processing.
2. The changable process materials easily which will be able to rough matching and finishing process by just one process at same time.

1. 加工中需要卡盘夹紧力的调节时使用.
2. 把易变形的工件可以同时粗加工和精加工.

1. 가공중에 CHUCK의 파악력 조절이 필요할 때 사용하는 척입니다.
2. 변형되기 쉬운 가공물을 한 공정으로 동시에 황삭과 정삭 가공을 할 수 있습니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D _{H7}	E	F	G max	G min	H	J
SM-LVS 06		175	165	130	90	50	50	57.5	52.5	75	22
SM-LVS 08		210	184	150	120	55	50	68.7	63.2	80	22
SM-LVS 10		254	235	150	120	70	65	83.7	76.6	90	22
SM-LVS 12		304	260	170	140	80	90	103.6	96.3	105	22

Model	Symbol	K	L	M	N max	N min	O	P	R	S	X
SM-LVS 06		3-M16	41	11	18	14	5	36	35	M16	29
SM-LVS 08		3-M16	53	12	23	18	5	38	40	M20	33
SM-LVS 10		3-M16	59	13	27.5	21.5	4.5	46	50	M24	39
SM-LVS 12		6-M16	65	14	28.5	20.5	3.5	50	60	M27	42

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max.permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max.permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Outside	Inside						
SM-LVS 06		10	4	25~110	130~175	22.6(2300)	14.7(1500)	3800	14.5	0.52(0.053)	YAS-100
SM-LVS 08		11	5	40~132	150~210	39.2(4000)	29.4(3000)	3000	23	1.27(0.13)	YAS-125
SM-LVS 10		13.2	6	50~160	190~254	58.8(6000)	44.1(4500)	2600	35	2.74(0.28)	YAS-150
SM-LVS 12		14.6	8	60~200	230~304	78.5(8000)	67.7(6900)	2200	58	6.57(0.67)	YAS-150

90° ANGLE AUTO INDEX CHUCK

自动分度标准型动力卡盘 / 90도 인덱스 척

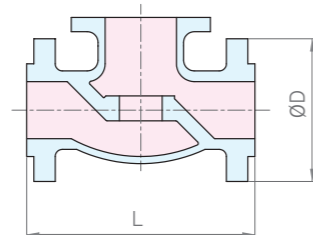
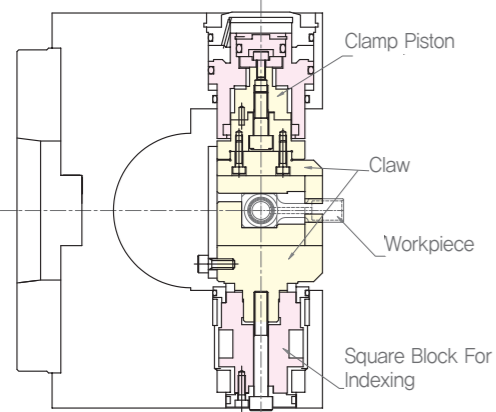


1. This chuck using to complete finishing of the material's 4 sides or 8 sides by one time clamping.
2. It is able to automatic indexing of 90° or 45°. Even if the machine spindle under rotating.

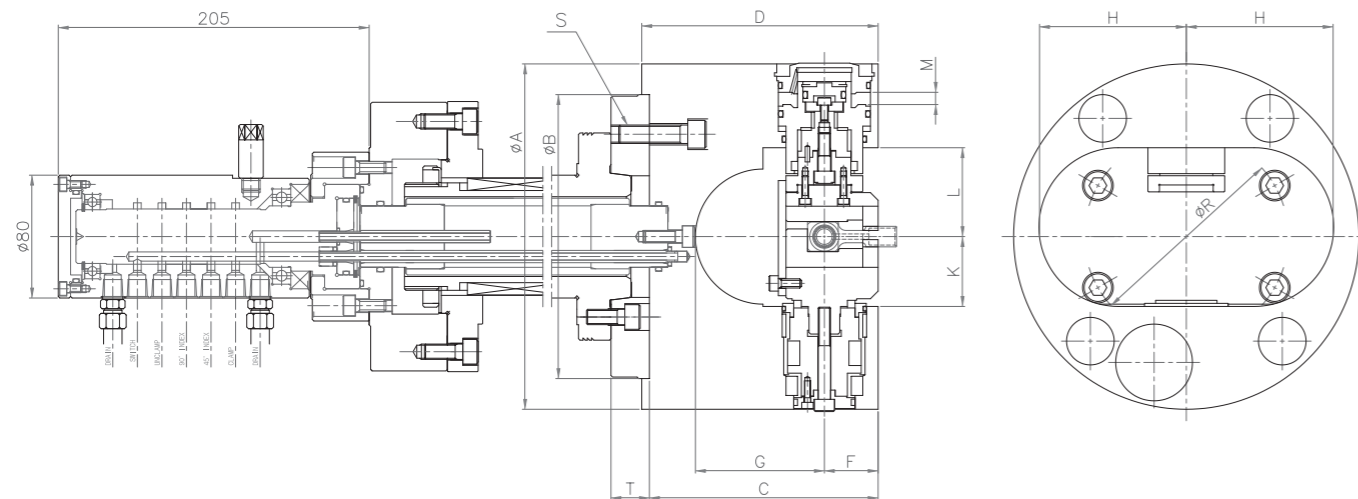
1. 一次装夹能完成四面或八面加工。
2. 机床主轴在旋转中能自动分度为90度或45度。

1. 가공물의 4면 또는 8면을 1회 CLAMP 하여 가공 완료하는 용도의 척입니다.
2. 기계의 SPINDLE이 회전중에도 90° 또는 45°씩 자동으로 INDEXING이 가능합니다.

Outward Drawing · 外型图 · 외형도

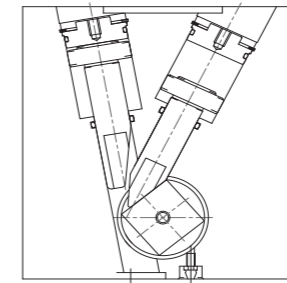


CHUCK Type No.	Mhching Size	
	D(mm)	L(mm)
HSR 225	60	100
HSR 250	65	160
HSR 275	80	220
HSR 315	100	230
HSR 350	135	240
HSR 400	170	260
HSR 500	220	310

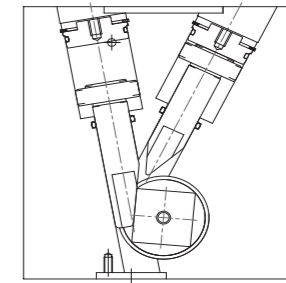


Dimension · 尺寸 · 치수표 / Specifications · 规格 · 사양표

Model	Dimension													Max. static gripping force KN(kgf)	GD ² N·m ² (Kgf·m ²)	Weight kg	Lathe Spindle Nose	Main Spindle Bore speed mm
	A	B ₁	C	D	F	G	H	K	L	M	R	S	T					
SM-HSR 225	225	185	149	154	35	84	95	46	58	14.5	133.4	4-M12	25	12.4(1,270)	8.82(0.9)	29	ASA No.6~8	Over 45
SM-HSR 250	250	210	185	190	40	113	106	46	55	20	133.4	4-M12	25	17(1,730)	16.66(1.7)	44		
SM-HSR 275	275	210	208	213	48	125	125	57	67	20.5	171.4	4-M16	25	25(2,550)	27.44(2.8)	56	ASA No.11	Over 55
SM-HSR 315	315	235	227	232	50	136	136	70	85	22	171.4	4-M16	25	25(2,550)	49(5.0)	75		
SM-HSR 350	350	290	235	240	50	148	145	84	102	23	235	4-M20	30	25(2,550)	78.4(8.0)	100	ASA No.15	
SM-HSR 400	400	290	253	259	60	160	165	100	114	30	235	4-M20	30	34.6(3,530)	147(15.0)	145		
SM-HSR 500	500	380	301	308	68	200	205	133	157	35	235 330.2	4-M20 4-M24	35	45.8(4,670)	248.92(25.4)	230		

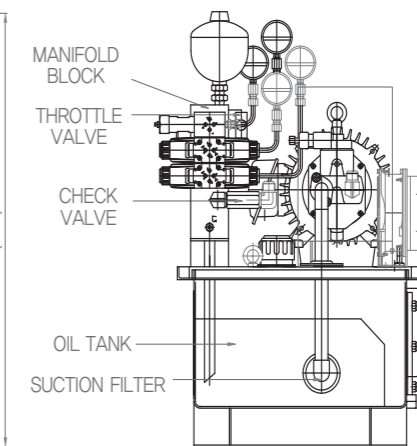
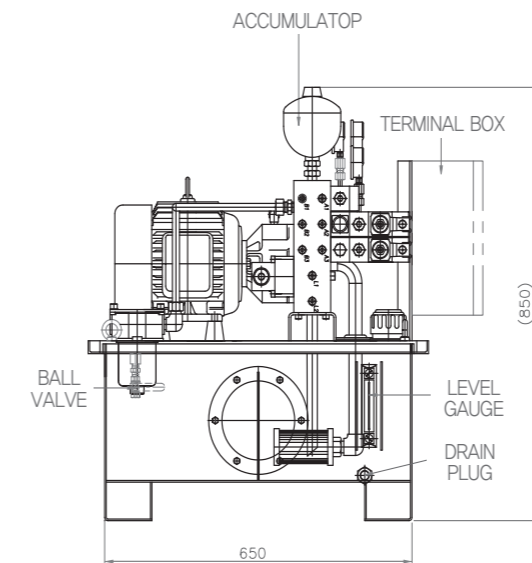
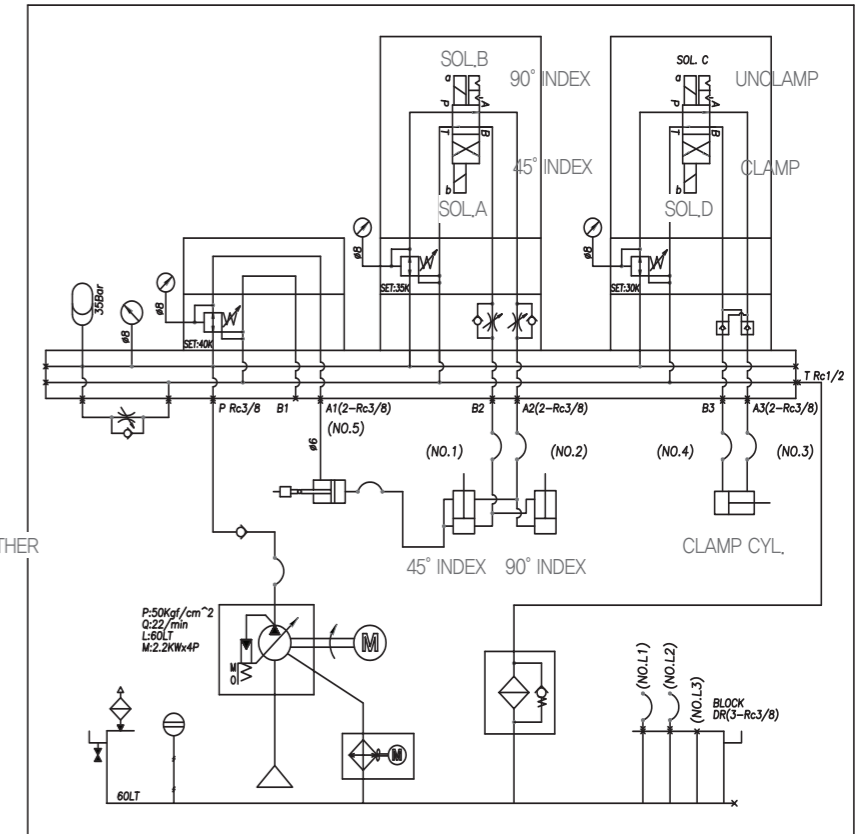
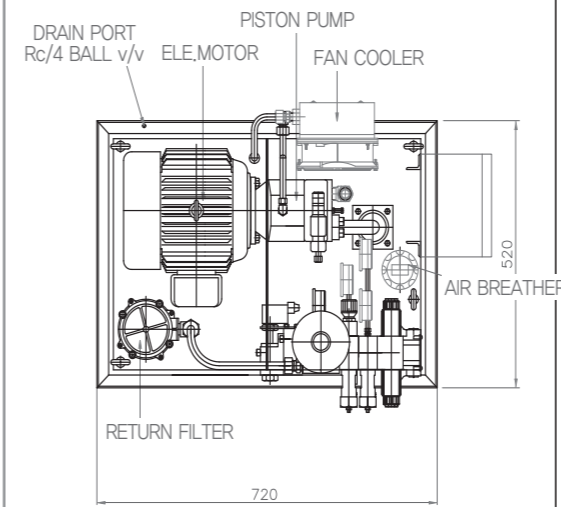


(45° INDEXING)



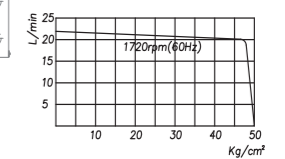
(90° INDEXING)

HYDRAULIC TANK & UNIT



MAIN SPECIFICATIONS

1. Working Fluid : Mineral Oil(ISO VG 32 EQ)
2. Operating Pressure : 50Kg/cm²(4.9MPa)
3. Power Source
For Ele Motor : AC220V, Ø3, 60Hz
For Fan Cooler : AC220V, Ø1, 60Hz
For Solenoid Valve : AC100V, 60Hz
5. Tank Capacity : 60Liter
6. Accumulator : 0.75Lt



Max. Pressure	50Kg / cm ²
Flow Rated	22L/min
Motor Power	2.2Kw × 4P × 220v
Use Oil	Mineral Oil
Tank Volume(Oil)	60 Lt

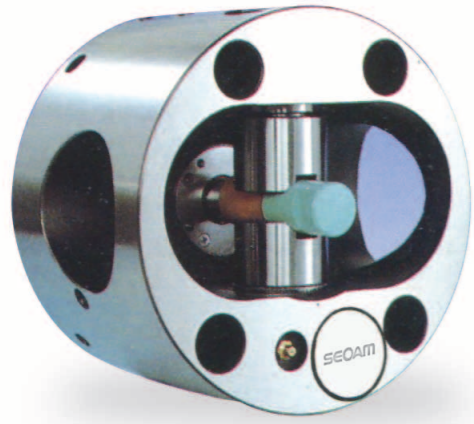
THRUST ROAD INDEX CHUCK

自动分度定心型动力卡盘 / 스러스트 로드 인덱스 척

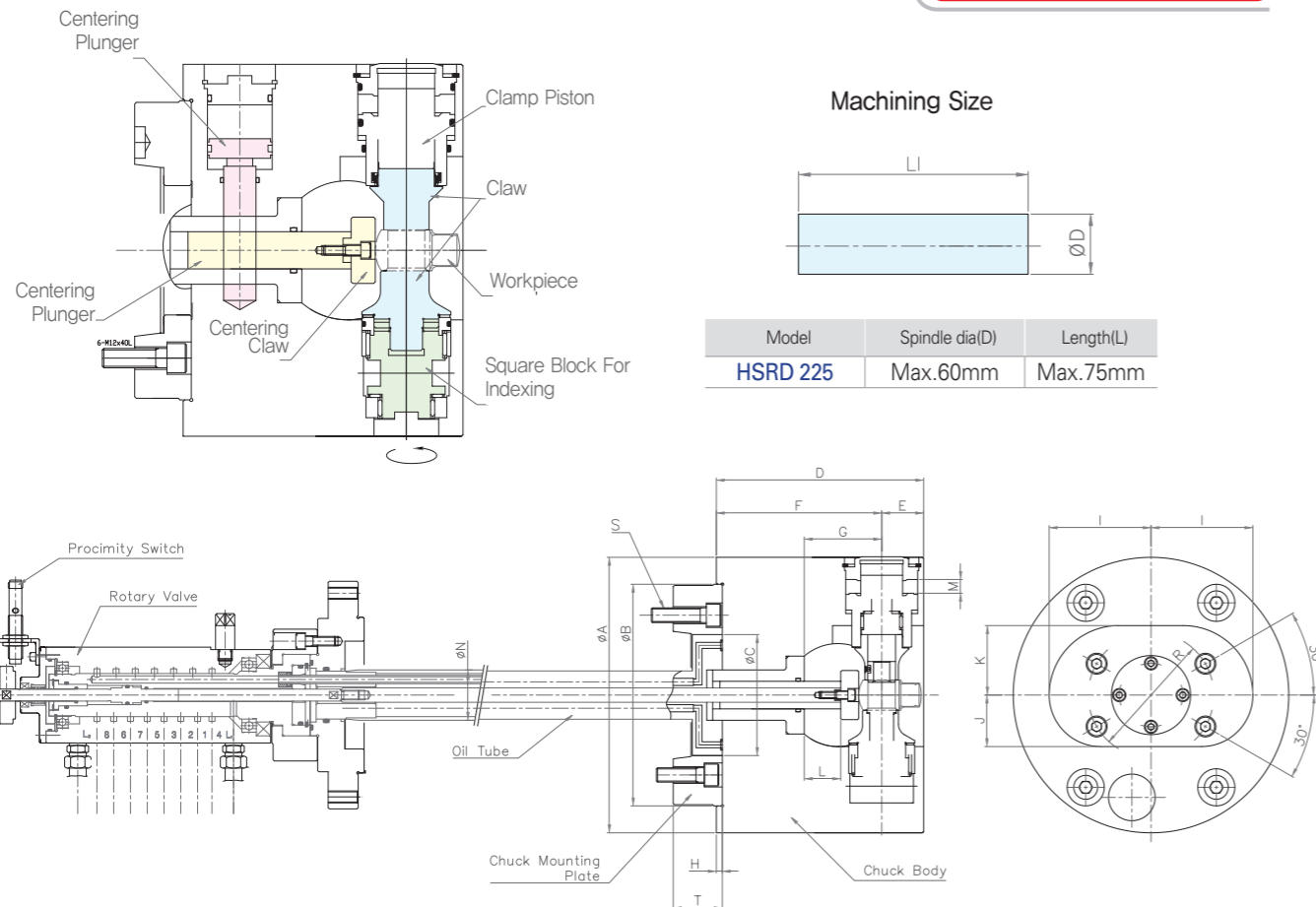
1. This chuck using to complete finishing of the material's 4 sides or 8 sides by one time clamping.
2. It is able to automatic indexing of 90° or 45°. Even if the machine spindle under rotating.
3. There are deciding function of the process materials location by added installing locator to the HSR model.
4. It is able to powerful drilling process by the lock plunger function.

1. 一次装夹能完成工件的四面或八面加工.
2. 机床主轴在旋转中也能自动分度为90度或45度.
3. HSR型号上增加定位块, 因此具有可靠的定位功能.
4. 因为可以自动锁住的活塞, 因此也能强有力的钻孔加工.

1. 가공물의 4면 또는 8면을 1회 CLAMP 하여 가공 완료하는 용도의 적합합니다.
2. 기계의 SPINDLE이 회전중에도 90° 또는 45°씩 자동으로 INDEXING이 가능합니다.
3. HSR MODEL에 LOCATOR를 추가로 설치하여 가공물의 위치를 결정하여 주는 기능이 있습니다.
4. LOCK PLUNGER의 기능이 있어서 강력한 드릴가공도 가능합니다.



Outward Drawing • 外型图 • 외형도



Model	Spindle dia(D)	Length(L)
HSRD 225	Max.60mm	Max.75mm

Dimension • 尺寸 • 치수표

Model	Symbol	A	B ₁₇	C	D	E	F	G	H	I	J	K	L	M	N	R	S	T
SM-HSRD 225		225	185	103	154	35	119	63	5	96	46	58	15	15	40	133	4-M12	41

Specifications • 规格 • 사양표

Model	Spec.	Max. static gripping force KN(kgf)	GD ² N-m ² (Kgf-m ²)	Weight kg	Spindle Nose mm	Main Spindle Bore mm
SM-HSRD 225		12.45(1270)	8.82(0.90)	25	ASA No.6	Over 45

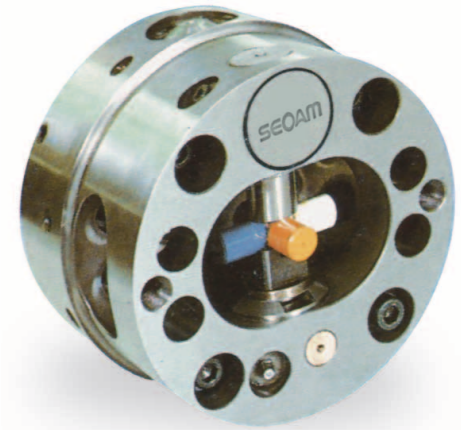
HIGH SPEED AUTO INDEX CHUCK

自动分度高速型动力卡盘 / 고속형 인덱스 척

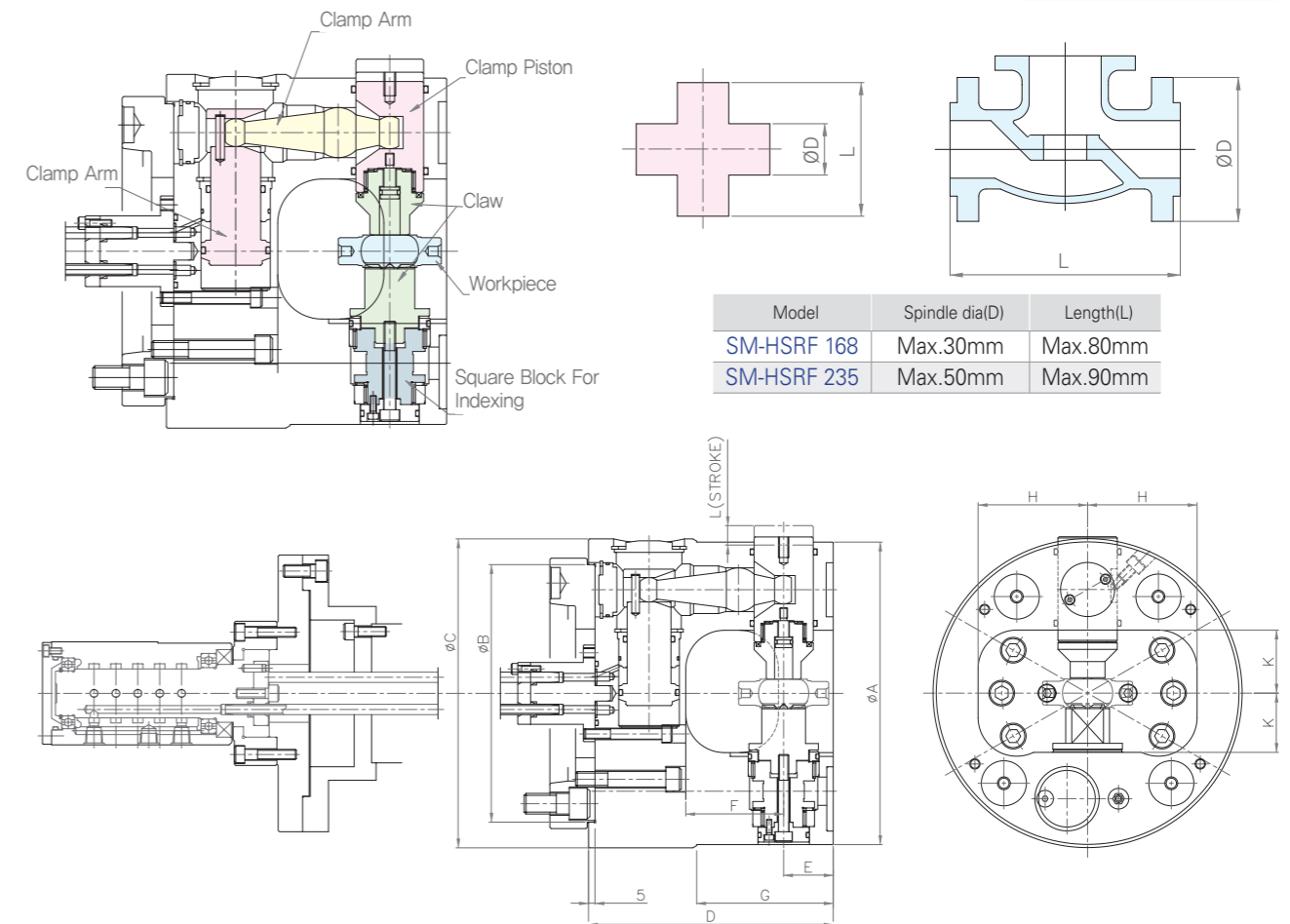
1. This chuck using to complete finishing of the material's 4 sides or 8 sides by one time clamping.
2. It is able to automatic indexing of 90° or 45°. Even if the machine spindle under rotating.
3. It is able to high speed process by the grasp power maintained in high speed rotation more than the HSR model.

1. 一次装夹能完成工件的四面或八面加工.
2. 机床主轴在旋转中也能自动分度为90度或45度.
3. 比起HSR型号, 夹紧力在高速旋转中也可保持, 因此可以高速加工.

1. 가공물의 4면 또는 8면을 1회 CLAMP 하여 가공 완료하는 용도의 적합합니다.
2. 기계의 SPINDLE이 회전중에도 90° 또는 45°씩 자동으로 INDEXING이 가능합니다.
3. HSR MODEL에 비해 파악력이 고속회전에서도 유지되므로 고속가공이 가능합니다.



Outward Drawing • 外型图 • 외형도



Model	Spindle dia(D)	Length(L)
SM-HSRF 168	Max.30mm	Max.80mm
SM-HSRF 235	Max.50mm	Max.90mm

Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C ₁₇	D	E	F	G	H	K	L	M	N'	R
SM-HSRF 168		168	150	178	150	26	52	78.5	49	33.8	10.5	125	15	-
SM-HSRF 235		235	200	235	190	38.5	76	-	85	49	14	133	30	85

Specifications • 规格 • 사양표

Model	Spec.	Max. static gripping force KN(kgf)	GD ² N-m ² (Kgf-m ²)	Weight kg	Spindle Nose mm	Main Spindle Bore mm
SM-HSRF 168		7.35(750)	3.23(0.33)	19	ASA No.6	Over 45
SM-HSRF 235		12.25(1250)	14.7(1.5)	44	ASA No.6	

120° ANGLE AUTO INDEX CHUCK

自动分度三等分动力卡盘 / 120도 인덱스 척

1. This chuck using to complete finishing of the material's 3 sides or 6 sides by one time clamping.
2. It is able to automatic indexing of 120° or 60°. Even if the machine spindle under rotating.

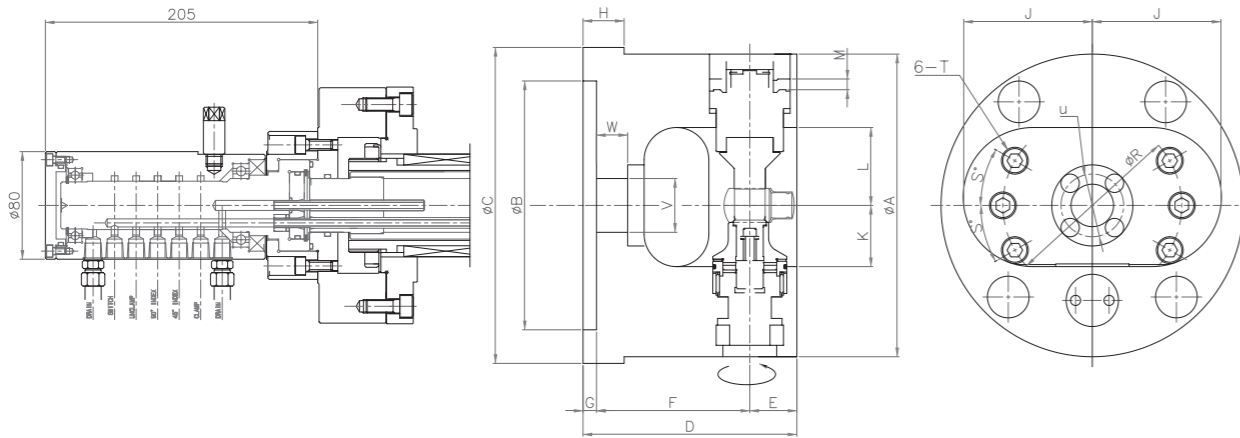
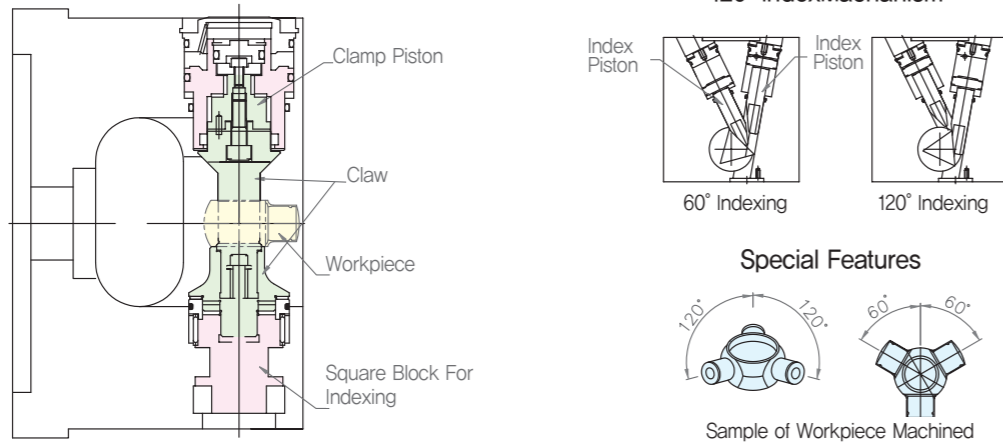
1. 夹紧一次工件的三面或六面则完成加工.
2. 机床主轴在旋转中能自动分度为120度或60度.

1. 가공물의 3면 또는 6면을 1회 CLAMP하여 가공 완료하는 용도의 척입니다.
2. 기계의 SPINDLE이 회전중에도 120° 또는 60°씩 자동으로 INDEXING이 가능합니다.

Outward Drawing · 外型图 · 외형도



120° Index Mechanism



Dimension · 尺寸 · 치수표

Model	Symbol	A	B _{H7}	C	D	E	F	G	H	J	K	L	M	R	S	T	U	V	W
SM-HSRT 230		230	130	245	173	35	123	15	27	102	40	58	15	104.8	30	M10	53	40	41
SM-HSRT 280		280	170	295	205	50	144	11	29	83	56	71	21	130	40	M16	61	45	46
SM-HSRT 300		300	170	295	211	56.5	144	11	60	83	56	65	25	130	40	M16	61	45	46

Specifications · 规格 · 사양표

Model	Spec.	Max. static gripping force KN(kgf)	GD ² N-m ² (Kgf-m ²)	Weight kg	Spindle Nose ASA No.	Main Spindle Bore mm
SM-HSRT 230		12.45(1270)	12.74(1.3)	35	ASA No.6	Over 45
SM-HSRT 280		21.27(2170)	35.28(3.6)	65	ASA No.8	Over 55
SM-HSRT 300		34.31(3500)	41.16(4.2)	83		

HIGH CLAMP AUTO INDEX CHUCK

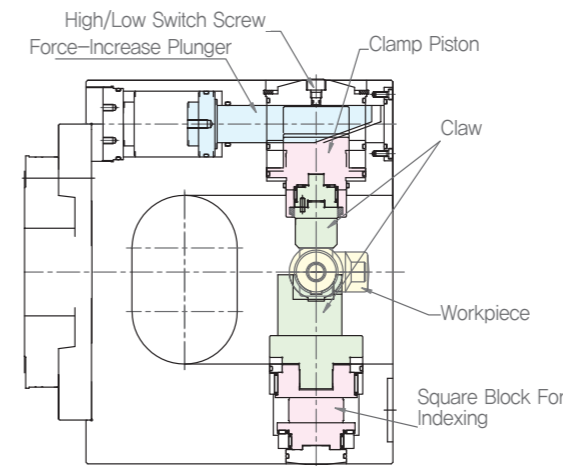
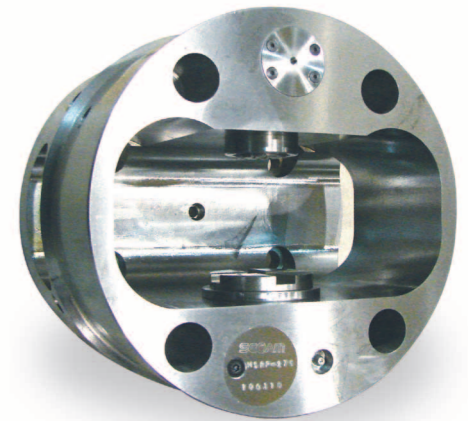
自动分度强力型动力卡盘 / 강력 파악형 인덱스 척

1. This chuck using to complete finishing of the materials 4 sides or 8 sides by one time clamping.
2. It is able to automatic indexing of 90° or 45°. Even if the machine spindle under rotating.
3. This chuck has powerful clamp function by the grasp power added increasing more than the HSR model.

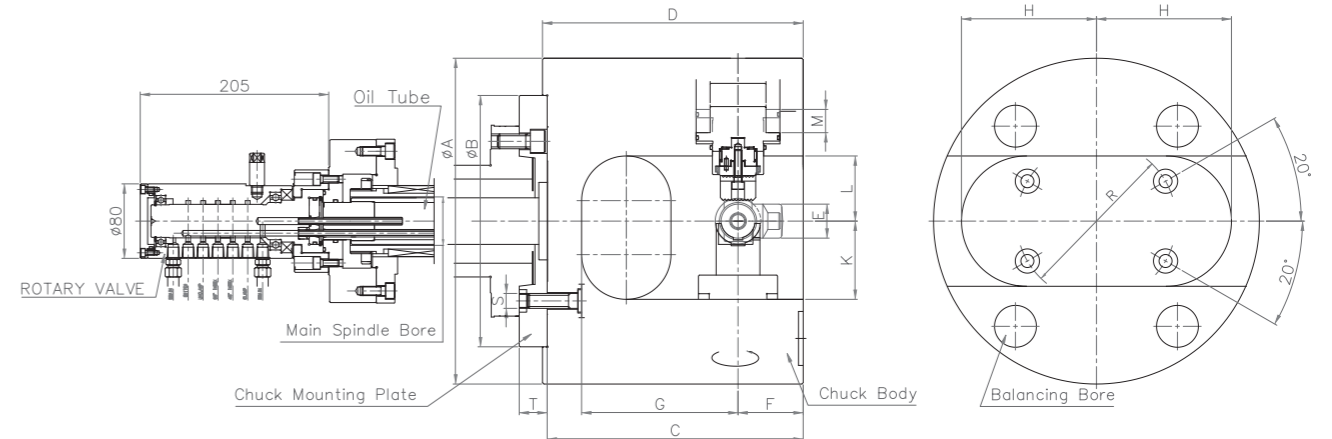
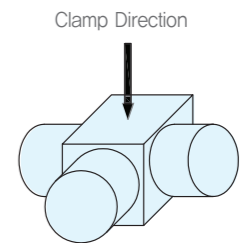
1. 一次装夹能完成工件的四面或八面加工.
2. 机床主轴在旋转中也能自动地分度为90度或45度.
3. 具有增大夹紧力的结构, 因此能得到强有力的夹紧力.

1. 가공물의 4면 또는 8면을 1회 CLAMP 하여 가공 완료하는 용도의 척입니다.
2. 기계의 SPINDLE이 회전중에도 90° 또는 45°씩 자동으로 INDEXING이 가능합니다.
3. HSR MODEL에 비해 파악력을 추가로 증대시키는 구조가 있어서 강력한 CLAMP력을 갖고 있는 CHUCK 입니다.

Outward Drawing · 外型图 · 외형도



Special Features



Dimension · 尺寸 · 치수표

Model	Symbol	A	B _{H7}	C	D	E	F	G	H	K	L	M	R	S	T
SM-HSRP 265		265	210	208	213	75	48	119	100	46	51	20	171.4	4-M16	26

Specifications · 规格 · 사양표

Model	Spec.	Gripping force KN(kgf)	GD ² N-m ² (Kgf-m ²)	Weight kg	Spindle Nose ASA No.	Main Spindle Bore mm
SM-HSRP 265		34.31(3500)	24.5(2.5)	58	ASA No.6	Over 45
		18.63(1900)			ASA No.8	

SM-2F, -3F

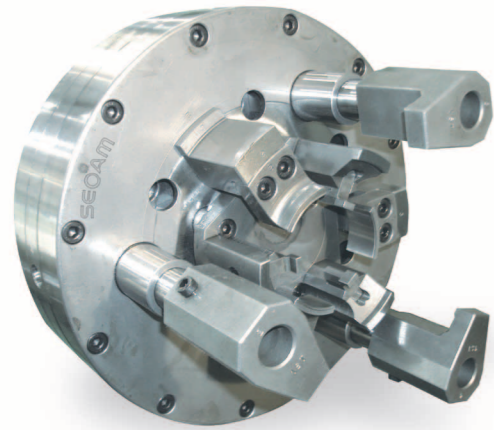
FINGER CHUCK

指形卡盘 / 핑거 척

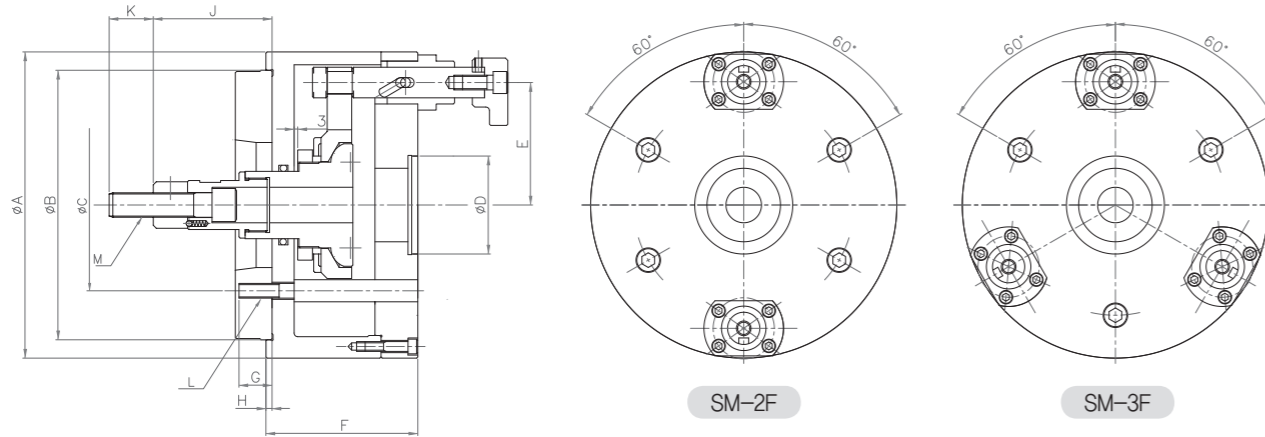
1. This chuck using to clamping by pulling the material's cross section, Which is impossible to inside and full side diameter's clamping.
2. It needs special process material's location decision structure or centering structure.

1. 把不能夹紧内外径的工件后拉端面夹紧.
2. 需要辅助装置可定位工件或定心.

1. 내 · 외경 CLAMP가 불가능한 가공물의 단면을 끌어 당기어 CLAMP하는 용도의 척입니다.
2. 별도의 가공물의 위치 결정 구조 또는 CENTERING 구조가 필요합니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Cymbol	A	B _{H7}	C	D	E	F	G	H	J max	J min	K	L	M
SM-2F, -3F 06		165	140	104.77	45	55	80	16	5	85	70	36	3-M10	M16
SM-2F, -3F 08		210	170	133.35	65	75	95	19	5	90	75	36	3-M12	M20
SM-2F, -3F 10		254	220	171.45	85	95	105	23	5	105	80	46	3-M16	M24
SM-2F, -3F 12		304	220	171.45	110	120	105	23	5	105	80	46	3-M16	M24
SM-2F, -3F 15		381	300	235	140	155	120	32	5	115	90	50	3-M20	M27
SM-2F, -3F 18		457	300	235	175	192	130	32	5	115	90	50	3-M20	M30

Specifications · 规格 · 사양표

Model	Spec.	Jaw stroke mm		Plunger Stroke mm	Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight kg	Matching cylinder
		Swing	Strate						
SM-2F, -3F 06		11	4	15	17.65(1800)	13.73(1400)	3600	11	YAS-100
SM-2F, -3F 08		15	5	20	26.47(2700)	20.59(2100)	2900	21	YAS-125
SM-2F, -3F 10		20	5	25	35.29(3600)	27.45(2800)	2400	35	YAS-150
SM-2F, -3F 12		20	5	25	35.29(3600)	27.45(2800)	2100	47	YAS-150
SM-2F, -3F 15		20	5	25	44.12(4500)	35.29(3600)	1800	91	YAS-150
SM-2F, -3F 18		20	5	25	44.12(4500)	35.29(3600)	1600	133	YAS-200

2-JAW & 3-JAW CHUCK

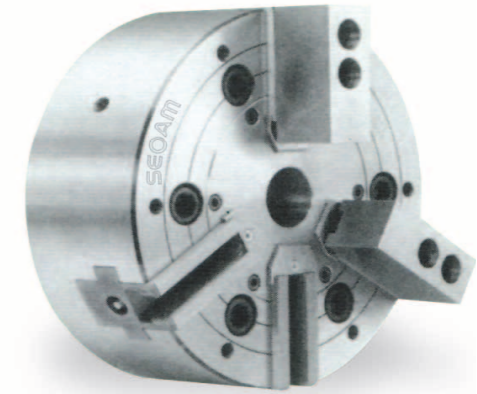
2爪, 3爪公用卡盘 / 2-조, 3-조 겸용 파워 척

1. This chuck using by mixed the 2-jaws and 3-jaws.
2. It can be using to the round process material and unformed process material with only one chuck by changed the chuck jaw.

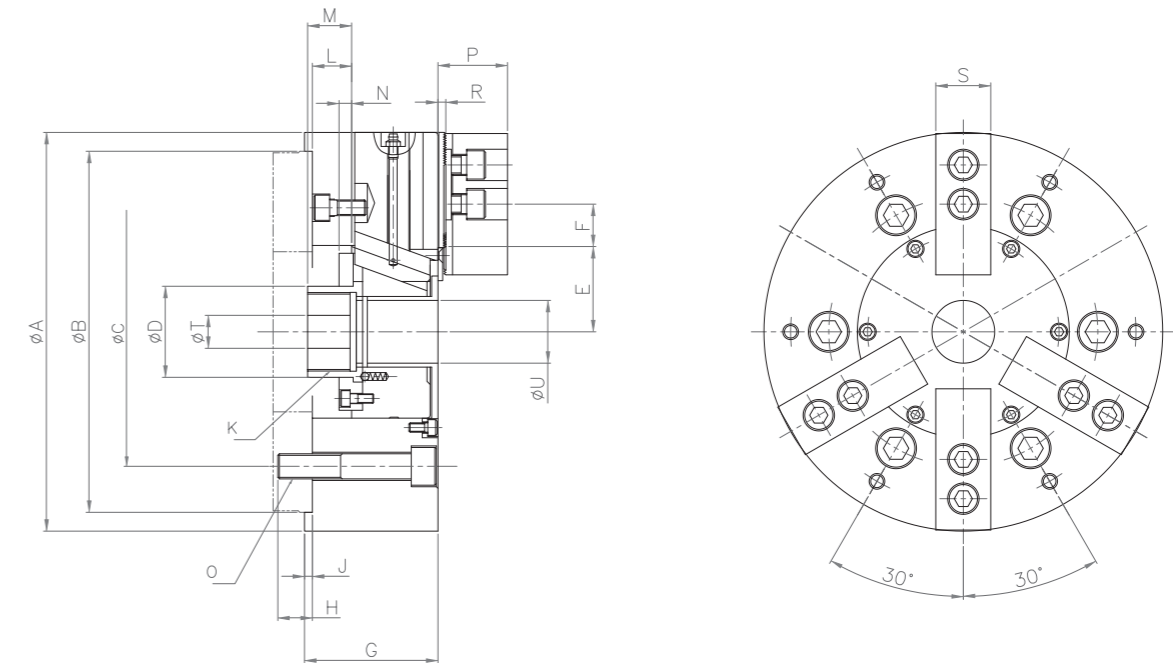
1. 一个卡盘上同时兼容两爪或三爪.
2. 只更换卡爪就可以加工圆型和异型工件.

1. 2-JAW와 3-JAW를 혼용해서 사용하는 용도의 척입니다.
2. 원형공작물과 이형공작물을 척 1대로 CHUCK JAW를 교환하여 사용 가능합니다.

SM-DNT



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Cymbol	A	B _{H7}	C	D	E max	E min	F max	F min	G	H	J	K max	L max	L min	M	N	O	P	R	S	T
SM-DNT 08		210	190	133.4	48	45.8	41	30	7.5	73	20	5	M42X1.5	23	5	26	5	M12	34	5	30	17
SM-DNT 10		254	230	171.4	58	51.3	42.2	42	9.5	85	22	5	M50X2	25	0	25	8	M16	44	5	35	21
SM-DNT 12		304	280	200	75	65.8	55.6	46.5	10.5	97	25	5	M65X2	28	0	28	11	M20	54	5	40	28
SM-DNT 15		381	350	250	95	85.4	75.2	51	15	122	27	7	M85X2	28	0	28	5	M20	63	5	50	31

Specifications · 规格 · 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)		Max. static gripping force KN(kgf)		Max. permissible speed (r.p.m)		Weight(With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Max	Min	2Jaw	3Jaw	2Jaw	3Jaw	2Jaw	3Jaw			
SM-DNT 08		9.6	18	210	30	14.7(1500)	19.6(2000)	32.4(3300)	43.1(4400)	3500	3500	20	1.08(0.11)	YAS-100
SM-DNT 10		18.2	25	254	30	22.6(2300)	34.3(3500)	40.2(4000)	60.8(6200)	2800	3500	32	2.55(0.26)	YAS-125
SM-DNT 12		20.4	28	304	50	29.4(3000)	44.1(4500)	52(5300)	78.5(8000)	2000	2500	55	3.92(0.40)	YAS-150
SM-DNT 15		20.4	28	381	70	39.2(4000)	58.8(6000)	68.6(7000)	103(10500)	1600	2000	99	18.42(1.88)	YAS-150

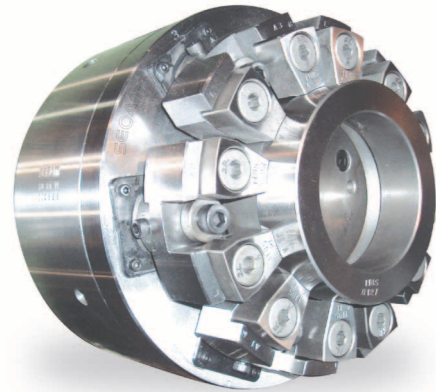
6-JAW LEVER CHUCK

6爪杠杆动力卡盘 / 6-조 레버 척

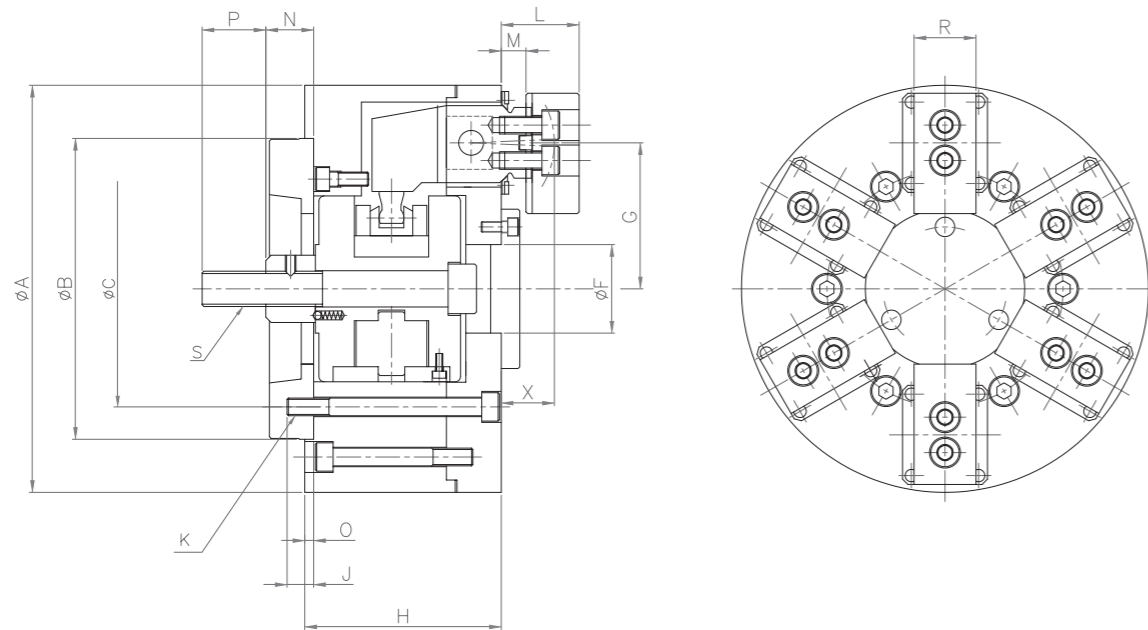
1. This chuck using to getting the high precision of out of roundness by clamping the thin pipe shaped process materials.
2. It is automatic aimed structure by 3 sets of 6 jaws bound per 2 jaws.

1. 夹紧薄壁管类工件，能获得高精度的圆度。
2. 6个卡爪，每两个成为一付，一共三付而成了自动转动的结构。

1. 얇은 파이프 형상의 가공물을 CLAMP하여 고정밀도의 진원도를 얻고자 할 용도의 적입니다.
2. 6개의 JAW가 2개씩 한쌍으로 3SET로 묶여 자동 지향되게 된 구조로 되어 있습니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A	B _{H7}	C	F	G max	G min	H	J	K	L	M	N max	N min	O	P	R	S	X
SM-TIL 08		230	170	133.4	50	84.5	80.5	111	22	3-M16	44	14	31	27	5	38	35	M20	33
SM-TIL 10		254	190	133.4	50	87	83	125	22	3-M16	59	18	35	31	5	46	40	M24	39
SM-TIL 12		304	220	171.4	60	112	108	125	22	6-M16	65	22	35	31	5	50	50	M27	42

Specifications · 规格 · 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² N-m ² (Kgf-m ²)	Matching cylinder
				Outside	Inside						
SM-TIL 08		8	4	40~132	150~210	39.2(4000)	29.4(3000)	3000	36	1.27(0.13)	YAS-125
SM-TIL 10		8	4	50~160	190~254	58.8(6000)	44.1(4500)	2600	50	2.74(0.28)	YAS-150
SM-TIL 12		8	4	60~200	230~304	78.5(8000)	67.7(6900)	2200	71	6.57(0.67)	YAS-150

HIGH-SPEED POWER CHUCK WITH COUNTER BALANCE

超高数动力卡盘 / 카운터 바란스 내장형 고속 척

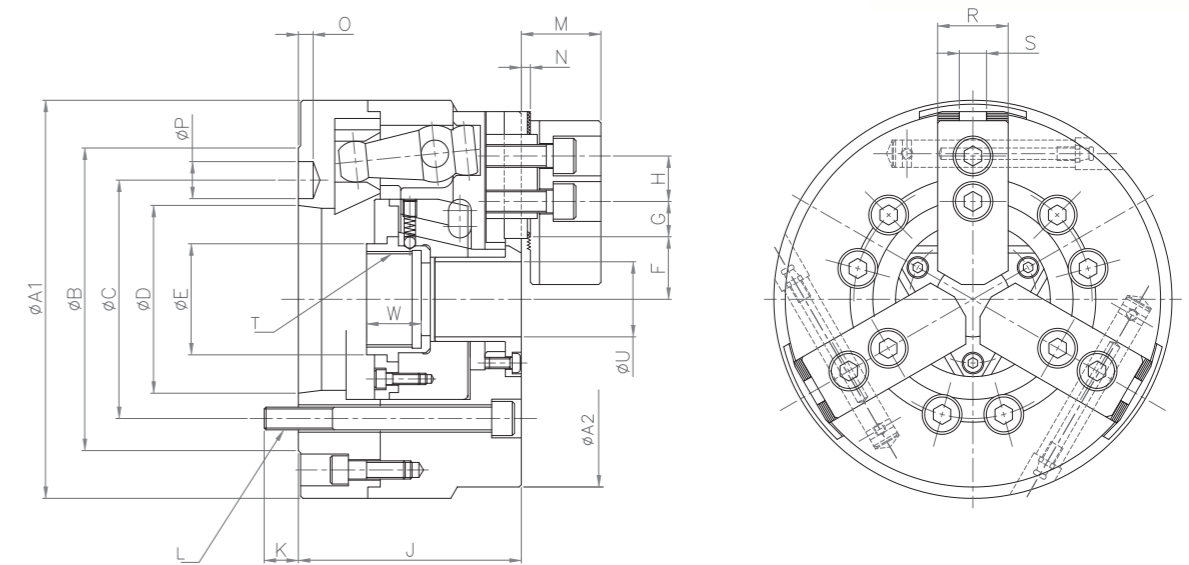
1. It is able to safely cutting by the initial grasp power maintained in high speed rotation. The reason that there were equipped the weight which is reducing the grasp power loss by the centrifugal force of inner chuck.

1. 因内部特殊结构，可减少以离心力原因产生的夹紧力的损失，维持最初夹紧力，高速切削稳定。

1. 척 내부에 원심력에 의한 파악력 손실을 감소시키는 추가 내장되어 있어 고속 회전을 할때에도 초기 파악력을 유지시켜 주며, 안정적 절삭이 가능합니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A1	A2	B	C	D	E	F max	F min	G max	G min	H	J
SM-SPD 06		175	165	135	104.78	82.552	48.8	27.5	24.75	26.25	8.25	20	98
SM-SPD 08		215	210	165	133.35	106.375	61	35.7	32	31.25	10.25	25	110
SM-SPD 10		254	254	210	171.45	139.719	84.5	50	45.6	33.75	11.25	30	114
SM-SPD 12		304	304	210	171.45	139.719	96	58	52.7	48.75	11.25	30	125
SM-SPD 15		381	381	281	235	196.869	139	82	76.7	46.75	13.75	43	154

Model	Symbol	K	L	M	N	O	P	R	S	T	U	W
SM-SPD 06		15	6-M10	33	4	6.5	16.28	31	12	M42X1.5	33	20
SM-SPD 08		18	6-M12	39	5	6.5	19.46	35	14	M55X2.0	46	25
SM-SPD 10		24	6-M16	45	5	8	24.21	40	16	M75X2.0	65	30
SM-SPD 12		23	6-M16	51	5	8	24.21	50	21	M88X2.0	78	33
SM-SPD 15		30	6-M20	70	5	10	29.36	62	22	M130X2.0	117.5	33

Specifications · 规格 · 사양표

Model	Spec.	Thru-hole (diameter) mm	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² Kgf-m ²	Matching cylinder
					Max	Min						
SM-SPD 06		33	5.5	12	165	13	19.60(2000)	50.00(5100)	6700	14.9	0.24	YAH-06
SM-SPD 08		46	7.4	16	210	11	30.39(3100)	76.47(7800)	5600	25.5	0.59	YAH-08
SM-SPD 10		65	8.8	19	254	31	37.25(3800)	97.06(9900)	4500	36.1	1.27	YAH-10
SM-SPD 12		78	10.6	23	304	34	48.04(4900)	126.47(12900)	3500	60.4	3.0	YAH-12
SM-SPD 15		117.5	10.6	23	381	30	69.61(7100)	176.47(18000)	2800	111	9.1	YAH-15

QUICK JAW CHANGE CHUCK

快换卡爪卡盘 / 퀵 조 체인지 척

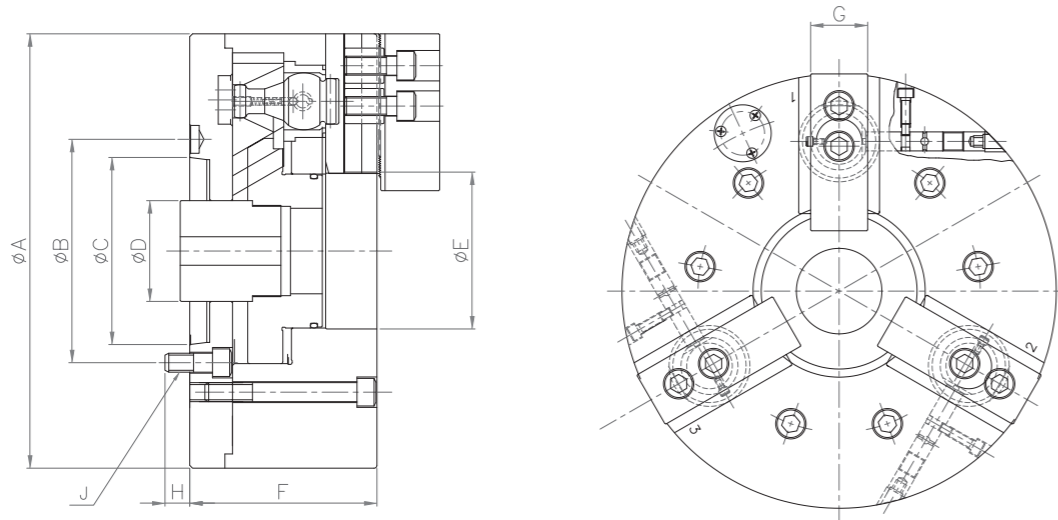


1. It is able to the chuck Jaw's model change works by just inner 1 minute per 1 jaw.
The reason that there is not needs the bolt wind and unwind.
2. It is able to safety operating in high speed rotation.
The reason that there is not grasp power loss by jaw's weight.

1. 卡爪的更换时, 不需要拆卸螺栓, 因此一分种内可以完成单只卡爪的更换.
2. 高速回转的时候也不会出现因爪子重量引起夹紧力的损失, 可以稳定地旋转.

1. CHUCK JAW의 기종 교환 작업은 볼트를 풀고 조임이 필요하지 않아 JAW 한개당 1분이내에 가능합니다.
2. 고속 회전시에도 JAW 무게에 의한 파악력 손실이 없어 안정적으로 작업이 가능 합니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E	F	G	H	J
SM-QJC 06		165	104.78	82.565	M46X1.5	42	123	31	14	6-M10
SM-QJC 08		210	133.4	106.375	M58X1.5	52	136	40	19	6-M12
SM-QJC 10		254	171.45	139.719	M72X1.5	66.5	150	40	22	6-M16
SM-QJC 12		305	171.45	139.719	M96X1.5	90	168	46	22	6-M16
SM-QJC 15		380	235	196.869	M132X1.5	125	176	60	26	6-M20
SM-QJC 22		560	235	196.869	M132X1.5	285	197	60	26	6-M20

Specifications • 规格 • 사양표

Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force KN(kgf)	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² N·m ² (Kgf·m ²)	Matching cylinder
				Outside	Inside						
SM-QJC 06		3.5	16	48~165	8~165	15.68(1600)	46.08(4700)	6000	16	0.060	YAH-06
SM-QJC 08		3.5	16	62~210	12~210	23.53(2400)	64.70(6600)	5500	28	0.15	YAH-08
SM-QJC 10		4	18.5	75~254	25~254	31.37(3200)	86.27(8800)	5000	42	0.30	YAH-10
SM-QJC 12		4	18.5	75~304	25~304	43.13(4400)	118.63(12100)	4200	68	0.810	YAH-12
SM-QJC 15		5	20	82~381	30~381	58.82(6000)	136.27(13900)	3000	135	2.60	YAH-15
SM-QJC 22		7.5	30	130~560	60~560	58.82(6000)	136.27(13900)	2200	820	11.63	YAH-21

DIAPHRAGM CHUCK

薄膜动力卡盘 / 다이어프램 척

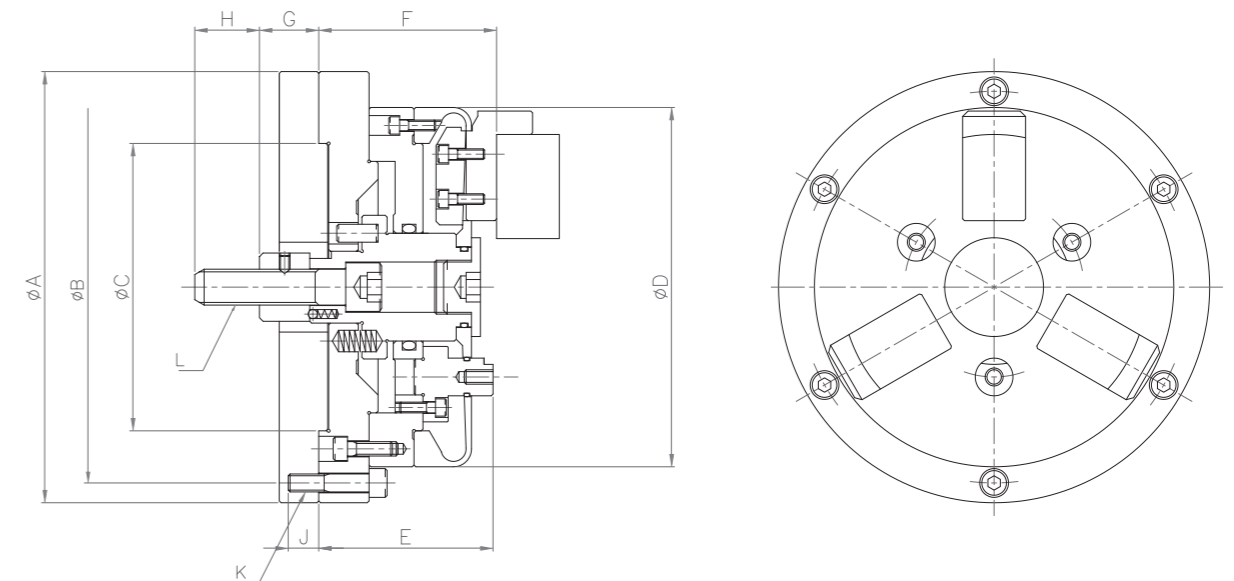


1. This chuck using to concerned about transforming by the process material's thin thickness or many repetition degree(precision finishing, grinding).
2. It is clamping by the spring board's elasticity.

1. 用于易变形、薄壁工件或重复精度要求高的工序(精加工, 磨削).
2. 用金属的弹性变性进行夹紧.

1. 가공물이 얇아 변형이 우려되거나 높은 반복 정도를 요구하는 공정에 사용되는 척입니다. (정밀사상, 연삭)
2. 스프링 판(SPRING BOARD)의 탄성에 의해 CLAMP됩니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C ₁₇	D	E	F	G max	G min	H	J	K	L
SM-DPM 06		200	175	110	160	92	94	36	31	36	17	6-M10	M16
SM-DPM 08		250	225	160	200	97	99	36	31	36	18	6-M10	M20
SM-DPM 10		305	275	220	250	102	104	42	37	46	20	6-M12	M24
SM-DPM 12		375	340	280	315	107	109	55	50	50	22	6-M12	M27
SM-DPM 16		475	435	320	400	140	142	65	60	55	25	6-M16	M30

Specifications • 规格 • 사양표

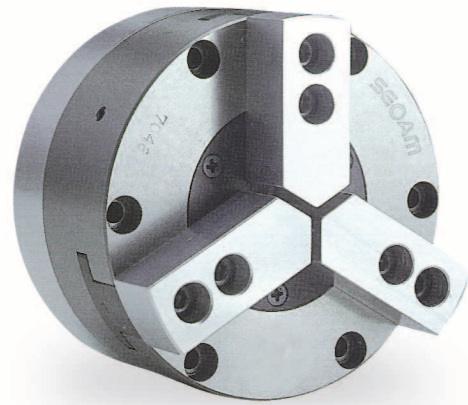
Model	Spec.	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia (mm)		Max. permissible speed r.p.m	Weight(With standard soft jaws) kg	Matching cylinder
				Max	Min			
SM-DPM 06		3Jaw	5	3	76	3800	14.5	YAS-100
SM-DPM 08		3Jaw, 6Jaw	5	12	120	3000	23	YAS-125
SM-DPM 10		3Jaw, 6Jaw	5	25	152	2600	35	YAS-150
SM-DPM 12		3Jaw, 6Jaw	5	75	203	2200	58	YAS-150
SM-DPM 16		6Jaw	5	140	270	1600	58	YAS-150

AIR CHUCK 气动卡盘 / 에어 척

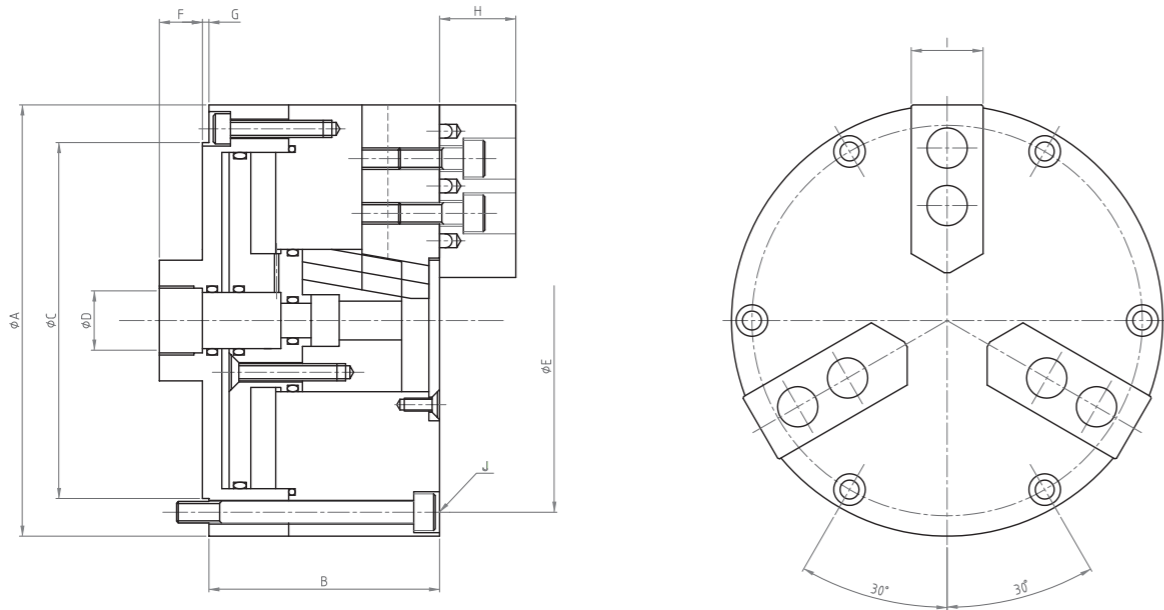
1. The air chuck mainly using to nonferrous metals and ceramic materials or concerned about transforming process materials. And also, It has equipped the cylinder inner chuck.
2. It is able to getting the high precision degree more than hydraulic chuck.

1. 气动卡盘是主要加工有色金属和陶瓷或者容易变形的工件，并且卡盘内部装置了气缸。
2. 可以获得比液压卡盘更高的精密度。

1. AIR CHUCK은 주로 비철 금속과 세라믹 또는 변형이 우려되는 공작물을 가공 할 때 사용하는 척이며, 척 내부에 CYLINDER를 내장하고 있습니다.
2. 유압척에 비해 높은 정밀도를 얻을 수 있습니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A	B	C ₁₇	D	E	F max	F min	G	H	I	J
SM-AIR 03		80	55	60	20.6	70	17	9.8	2	19	20	3-M5
SM-AIR 04		100	55	82.55	20.6	88.9	18	10.8	2	19	20	6-M5
SM-AIR 06		150	56	124.97	20.6	135.8	17.6	10.4	2	19	25	6-M6
SM-AIR 08		203	73	167.64	23.8	182.9	15.9	8.7	7.6	50.8	50.8	6-M10
SM-AIR 10		254	81	215.9	23.8	233.7	15.9	8.7	7.6	50.8	50.8	6-M10

Specifications · 规格 · 사양표

Model	Spec.	Jaw amount	Jaw stroke (diameter) mm	Plunger Stroke mm	Gripping Dia mm		Max. permissible input force kg/cm ²	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m
					Outside	Inside			
SM-AIR 03		3.5	3.5	16	8/165	48/165	15.68(1600)	46.08(4700)	6000
SM-AIR 04		3.5	3.5	16	12/210	62/210	23.53(2400)	64.71(6600)	5500
SM-AIR 06		4	4	18.5	25/254	75/254	31.37(3200)	86.27(8800)	5000
SM-AIR 08		4	4	18.5	25/304	75/304	43.14(4400)	118.63(12100)	4200
SM-AIR 10		5	5	20	30/381	82/381	58.82(6000)	136.27(13900)	3000

FACE DRIVER CHUCK 端面驱动动力卡盘 / 페이스 드라이버 척

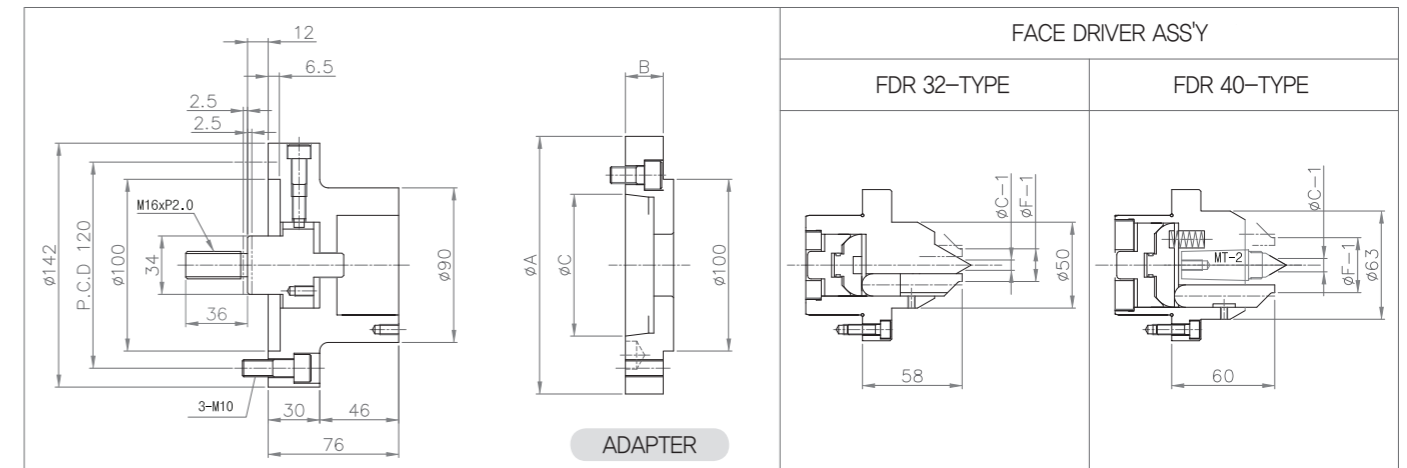
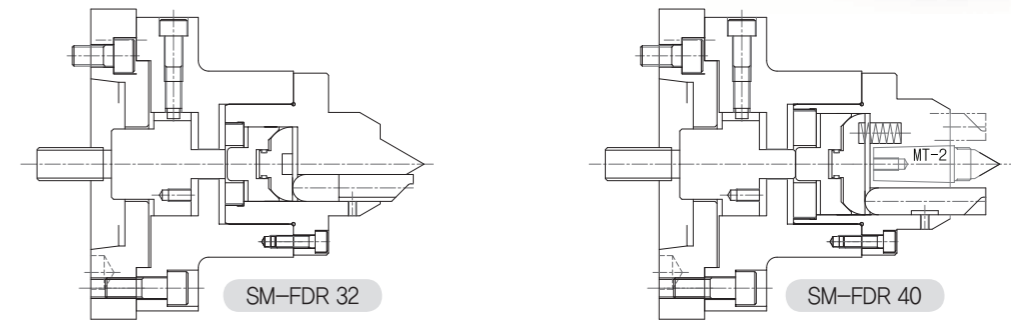
1. This is a exclusive device of machining the shaft.
2. This is machining device of shaft out-dia by cross section clamping of the shaft center standard.

1. 加工轴类的专用夹具。
2. 中心孔为基准夹紧端面，加工轴的外径。

1. SHAFT를 가공하는 전용 치구입니다.
2. SHAFT의 CENTER를 기준으로 단면 CLAMP하여 SHAFT의 외경을 가공하는 치구입니다.



Outward Drawing · 外型图 · 외형도



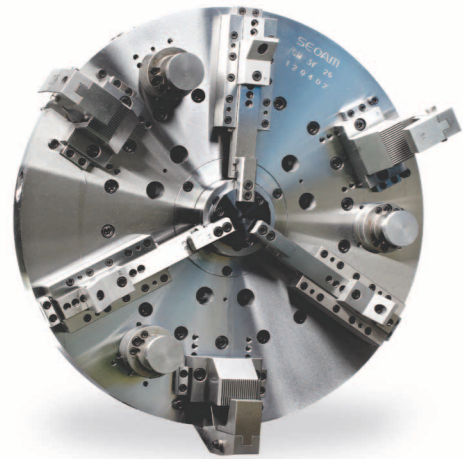
Dimension · 尺寸 · 치수표

Spec.	Spindle nose No.	Adapter		
		A	B	C
A 1	A2-5	140	30	82.563
A 2	A2-6	165	35	106.375
A 3	A2-8	216	40	139.719

Specifications · 规格 · 사양표

Model	Spec.	Face Driver Stroke mm	F - 1(Facing Dia) mm		Center Dia mm		Weight kg
			Standard	Max	Standard	Order	
SM-FDR 32		5	36	36~20	5	5~20	15
SM-FDR 40		5	48	48~32	8	5~14	15

AL-WHEEL CHUCK 轮毂动力卡盘 / 알루미늄 휠 척

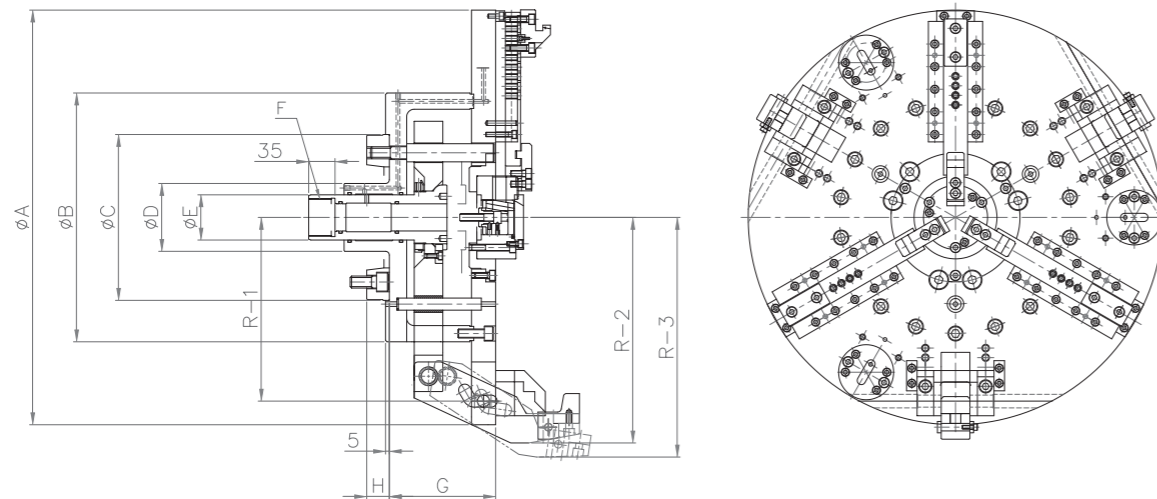


1. This is a exclusive chuck of processing the AL-WHEEL.
2. The 3-jaws is centering the AL-WHEEL and the finger jaw is clamping.
3. It needs double cylinder.

1. 加工铝轮毂的专用卡盘.
2. 三爪在AL-WHEEL的中心定位, 由指形爪夹紧.
3. 需要双活塞回转油缸.

1. AL-WHEEL 가공 전용 CHUCK 입니다.
2. 3-JAW가 AL-WHEEL의 중심을 잡고, FINGER JAW가 CLAMP 합니다.
3. 2중 CYLINDER가 필요합니다.

Outward Drawing • 外形图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C _{H7}	D	E	F	G	H	R-1	Gam XL-Size	
											R-2(CL)	R-3(UCL)
SM-ALW 20		500	330	220	90	60	M50X2.0	141	30	218.3	141	30
SM-ALW 22		550	330	220	90	60	M50X2.0	141	30	243.7	141	30
SM-ALW 26		600	380	300	90	60	M50X2.0	141	37	269.1	141	37
SM-ALW 30		660	380	300	90	60	M50X2.0	141	37	294.5	141	37

Specifications • 规格 • 사양표

Model	Spec.	Spindle nose No.	Jaw stroke (diameter) mm	Plunger Stroke mm	Wheel Size Range mm		Max. permissible input force kg/cm ²	Max. static gripping force KN(kgf)	Max. permissible speed r.p.m	Weight(With standard soft jaws) kg	GD ² N·m ² (kgf·m ²)	Matching cylinder
					Max	Min						
SM-ALW 20	A2-8		27	35	16	12	29.4(3000)	55(5610)	2,800	120	30.0(3.06)	YDP 125
SM-ALW 22	A2-8		27	35	18	13	29.4(3000)	73(7446)	2,600	140	40.0(4.1)	YDP 125
SM-ALW 26	A2-11		27	35	20	14	29.4(3000)	86(8772)	2,200	160	45.0(4.59)	YDP 125
SM-ALW 30	A2-11		27	35	22	16	29.4(3000)	86(8772)	1,800	240	100.0(10.2)	YDP 140

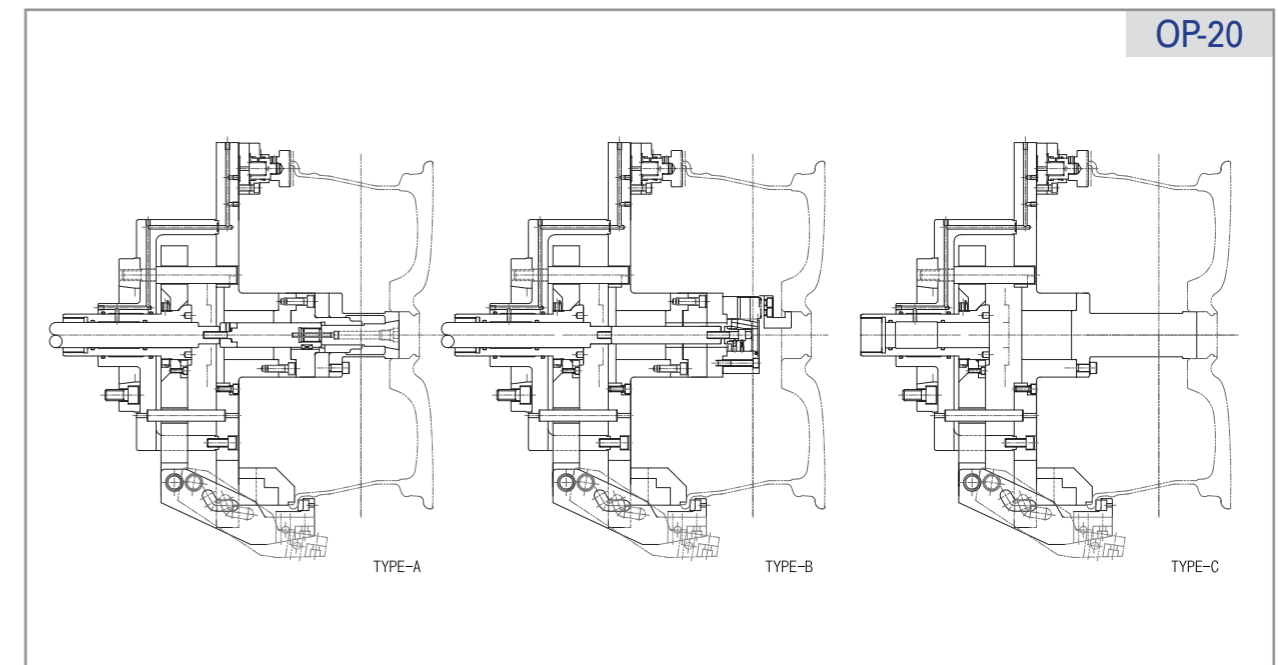
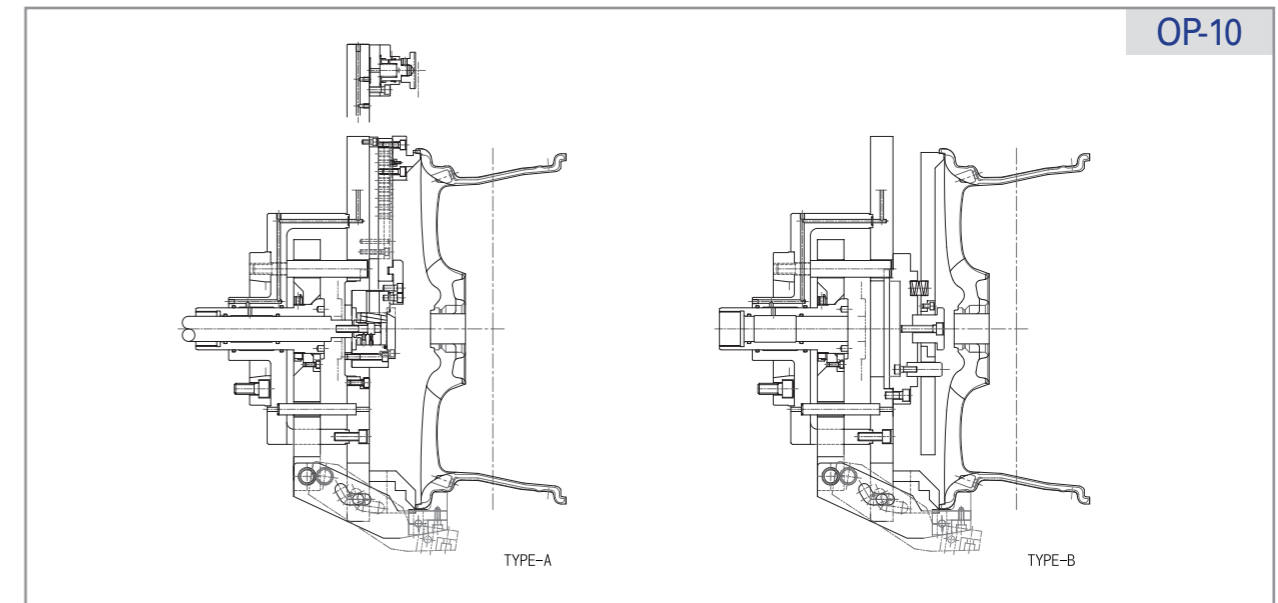
SM-ALW 20	Cam Arm			
Finger Jaw	S	M	L	XL
A	-	-	12	13
B	-	-	13	14
C	-	-	14	15
D	-	-	15	16

SM-ALW 22	Cam Arm			
Finger Jaw	S	M	L	XL
A	-	13	14	15
B	-	14	15	16
C	-	15	16	17
D	-	16	17	18

SM-ALW 26	Cam Arm			
Finger Jaw	S	M	L	XL
A	14	15	16	17
B	15	16	17	18
C	16	17	18	19
D	17	18	19	20

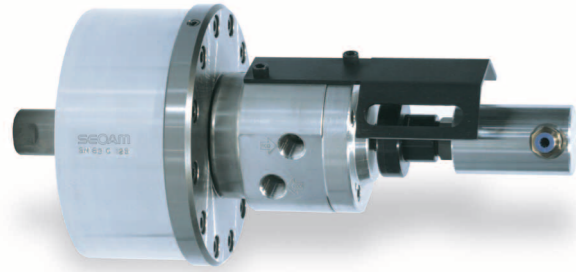
SM-ALW 30	Cam Arm			
Finger Jaw	S	M	L	XL
A	16	17	18	19
B	17	18	19	20
C	18	19	20	21
D	19	20	21	22

CENTERING METHOD



POWER CYLINDER WITH THROUGH HOLE

中実回转油缸(注水型) / 주수형 중실형 실린더

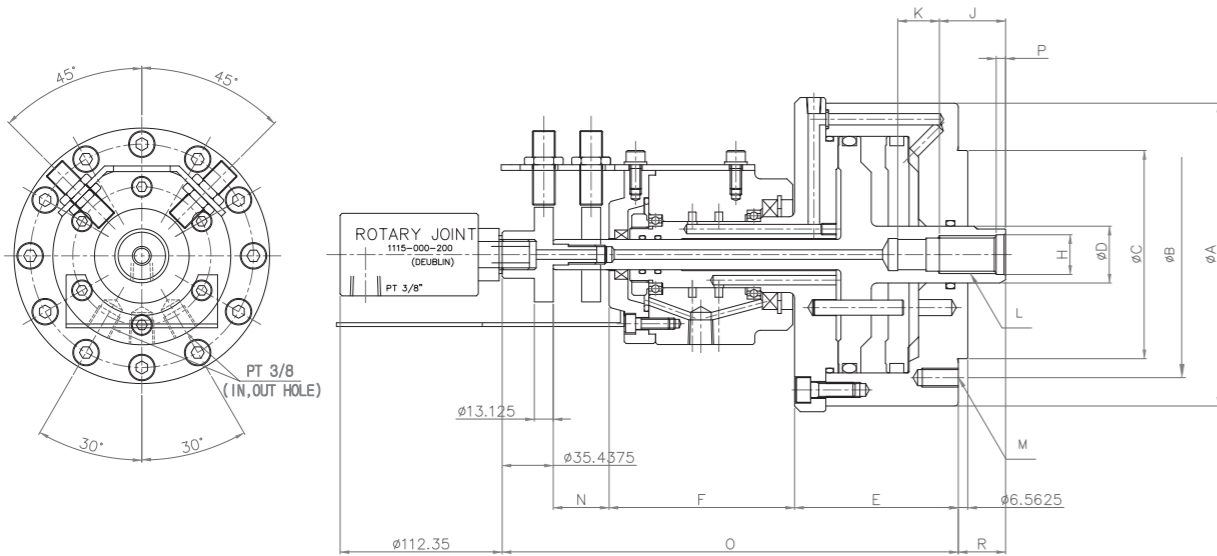


1. It is a solid cylinder with one pipe way in central parts. Therefore, It is able to air sensor or coolant blowing structure.

1. 是中实旋转油缸。中心内部有个通孔，此结构可以气密性检测或者冷却液装置。

1. 중실 CYLINDER이며 중심부에 한 개의 관로가 있어 AIR SENSOR 또는 COOLANT BLOWING 이 가능한 구조를 가지고 있습니다.

Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A	B	C ₁₇	D	E	F	H	J	K	L	M	N max	N min	O max	O min	P	R max	R min
SM-YTR 100		135	100	80	30	81.5	98	21	30	22	M20X2.5	M8,DP18	24.5	4.5	231	211	5	45	25
SM-YTR 125		160	130	110	30	86.5	98	21	30	22	M20X2.5	M10,DP20	29.5	4.5	241	216	5	50	25
SM-YTR 140		175	130	110	35	106.5	98	25	40	22	M24X3.0	M10,DP20	39.5	4.5	271	236	5	60	25
SM-YTR 200		245	145	120	55	120.5	98	37	70	-	M36X4.0	M16,DP29	39.5	4.5	285	250	15	60	25
SM-YTR 250		305	220	160	65	170	98	44	80	-	M42X3.0	M20,DP35	64.5	4.5	359.5	299.5	20	85	25

Specifications · 规格 · 사양표

Model	Spec.	Max. Pressure kg/cm ²	Cylinder Dia mm	Piston Stroke mm	Piston Surface Area cm ²		Max. Permissible Speed r.p.m	Total Leakage L/min	Weight kg	GD ² N-m ² (kgf-m ²)
					Extend	Retract				
SM-YTR 100		35	100	20	75.4	70.5	5500	1	6.3	0.49(0.050)
SM-YTR 125		35	125	25	119.5	112.4	5000	1	8.4	0.88(0.09)
SM-YTR 140		35	140	35	150.8	141.2	4500	1	11.3	1.57(0.16)
SM-YTR 200		35	200	35	309.4	293.4	4000	1	22.3	4.51(0.46)
SM-YTR 250		35	250	60	515	482	3500	1	25.2	8.33(0.85)

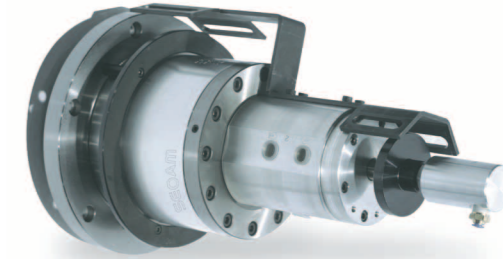
HYDRAULIC DOUBLE PISTON CYLINDER

双活塞液压缸 / 2단 실린더

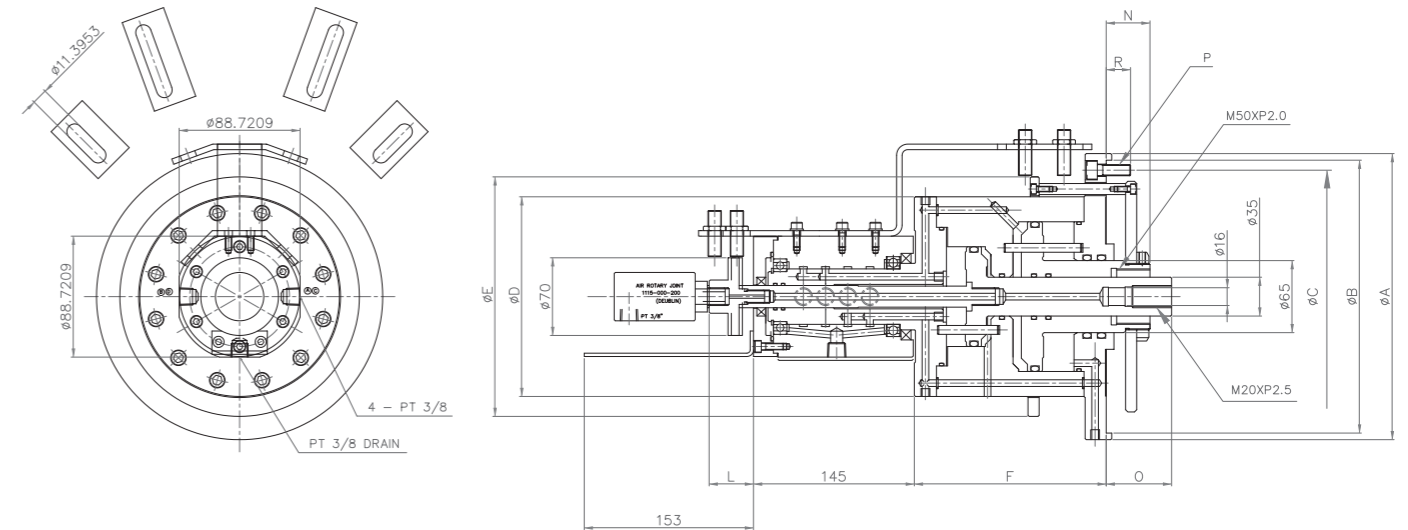
1. This cylinder has two pistons. Those are operating by individually.
2. Mainly the one piston using to clamping the process material. However, the other one is using to support clamp, centering, or process material's ejector.

1. 这个油缸是双活塞，双活塞独立运转。
2. 有一个活塞是主要夹紧工件时使用，另一个活塞使用在辅助夹紧或定心或排出工件等。

1. 이 실린더는 두개의 피스톤이 있으며, 두 피스톤은 독립적으로 작동하는 실린더입니다.
2. 주로 한 개의 피스톤은 공작물을 CLAMP하는데 사용하며, 다른 한 개의 피스톤은 보조 CLAMP, CENTERING, 또는 공작물의 취출(EJECTOR)등에 사용 됩니다.



Outward Drawing · 外型图 · 외형도



Dimension · 尺寸 · 치수표

Model	Symbol	A	B ₁₇	C	D	E	F	L max	L min	N max	N min	O max	O min	P
SM-YDP 125		258	246	228	180	216	173	57	37	67	32	62	42	6-M10
SM-YDP 140		273	261	243	195	231	173	57	37	67	32	62	42	6-M10
SM-YDP 160		293	281	263	215	251	188	57	37	85	35	65	45	6-M10

Specifications · 规格 · 사양표

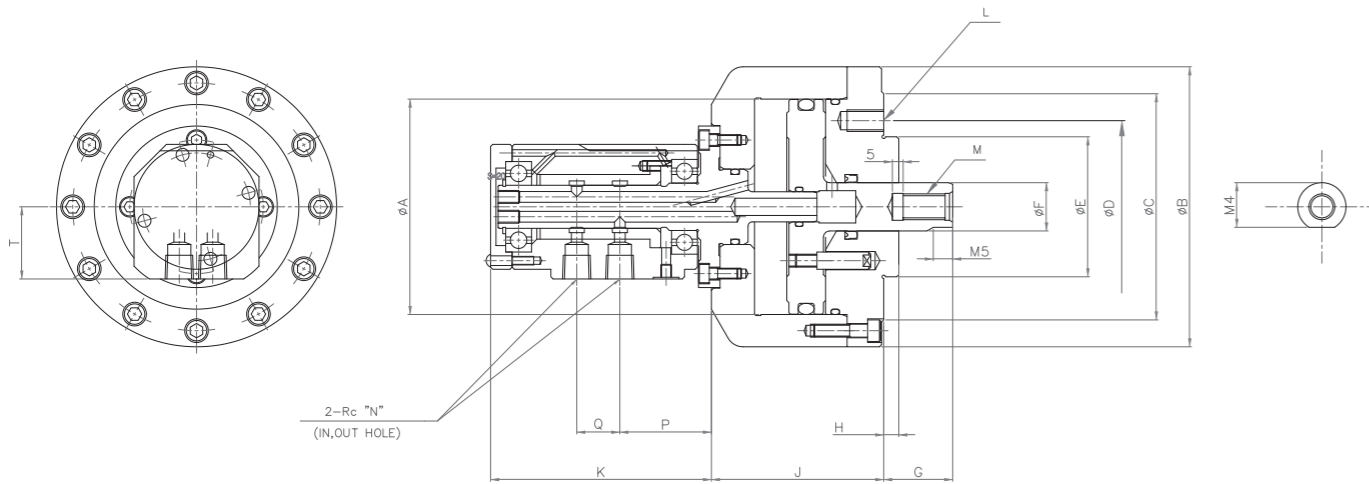
Model	Spec.	Max. Pressure kg/cm ²	Cylinder Dia mm		Piston Stroke mm		Piston Surface Area cm ²		Max. Permissible Speed r.p.m	Weight kg	GD ² N-m ² (kgf-m ²)
			Piston-1	Piston-2	Piston-1	Piston-2	Extend	Retract			
SM-YDP 125		35	125	80	35	20	113/89	47/40	5000	43	1.27(0.13)
SM-YDP 140		35	140	80	35	20	144/120	47/40	4500	46	1.76(0.18)
SM-YDP 160		35	160	80	50	20	191/167	47/40	4000	52	2.45(0.25)

AIR CYLINDER 기缸 / 에어 실린더

1. This is a standard air cylinder.
1. 是气动卡盘的标准配置.
1. AIR CYLINDER의 표준(STANDARD) 사양입니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

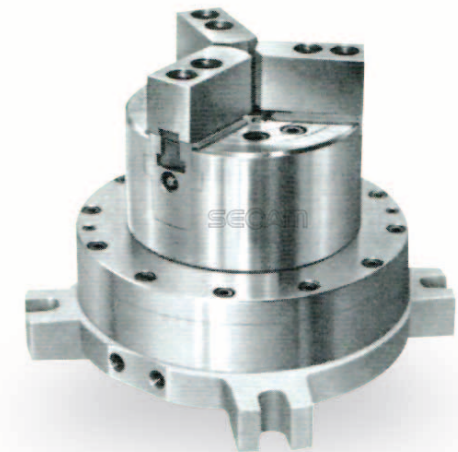
Model	Symbol	A	B	C	D	E ₁	F	G max	G min	H	J	K	L	M 1	N	P	Q	T
SM-YAR 100		100	130	105	80	65	22.4	32	17	7	80	130	M10,DP17	M12,DP20	1/4"	79	25	29
SM-YAR 150		150	186	160	130	110	25	34	19	9	88	130	M10,DP17	M16,DP35	1/4"	79	25	31
SM-YAR 175		175	210	160	130	110	30	34	19	9	88	130	M10,DP17	M16,DP35	1/4"	79	25	31
SM-YAR 200		200	234	160	130	110	35	54	34	9	98	130	M10,DP19	M20,DP50	1/4"	79	25	31
SM-YAR 250		250	290	160	130	110	40	59	34	9	118	152	M12,DP23	M24,DP50	1/4"	89	25	37.5
SM-YAR 300		300	340	235	200	165	40	69	34	9	138	147	M16,DP27	M27,DP50	3/8"	79	30	37.5

Specifications • 规格 • 사양표

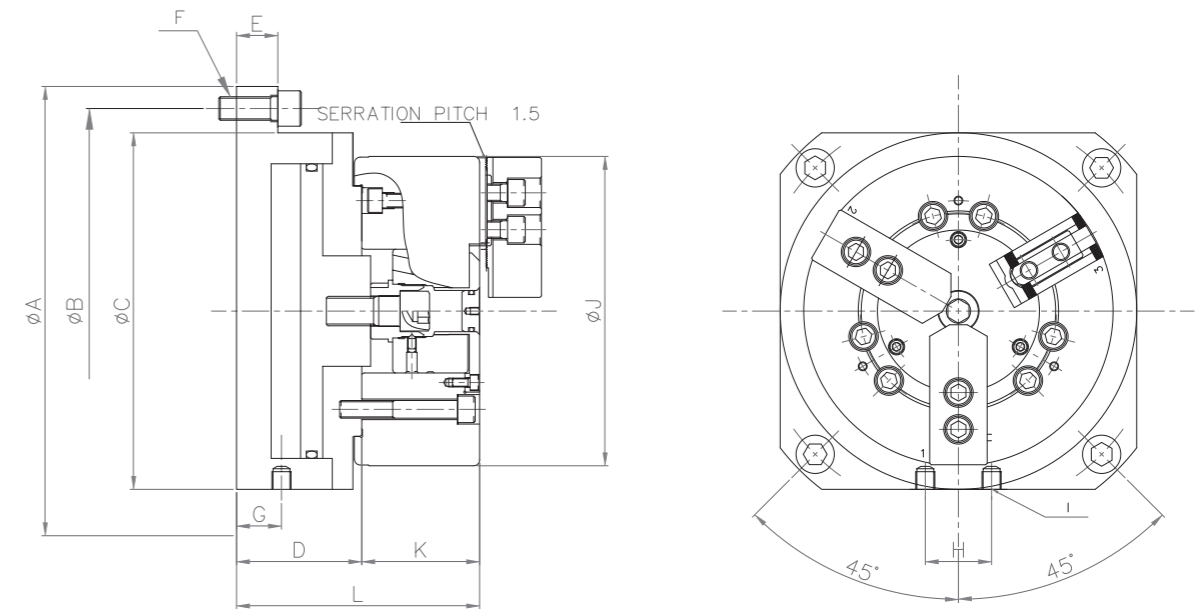
Model	Spec.	Thru-hole (diameter) mm	Piston Stroke mm	Piston Surface Area cm ²		Max.permissible input force kg/cm ²	Weight kg	Max.permissible speed r.p.m	Air Leakage L/s	GD ² kgf·m ²
				Extend	Retract					
SM-YAR 100		100	15	77	73	8	6	3000	0.4	0.10(0.01)
SM-YAR 150		150	15	175	170	8	10	2000	0.4	0.39(0.04)
SM-YAR 175		175	15	238.7	231.7	8	11.5	2000	0.4	0.59(0.06)
SM-YAR 200		200	20	311	301.7	8	15.5	2000	0.4	0.88(0.09)
SM-YAR 250		250	25	485.9	473.4	8	28	2000	0.55	2.16(0.22)
SM-YAR 300		300	35	701.9	689.3	8	41.5	1700	0.55	5.19(0.53)

STATIONARY CHUCK 加工中心用动力卡盘 / 스테이션러리 척

1. This is fixture by combined chuck and cylinder, Which is operating by air pressure.
 2. If you using the hydraulic when it needs special planning by counselling.
 3. The chuck and cylinder were combined by separated type. Therefore, The chuck is able to using by separately.
1. 是由卡盘与气缸组合的夹具，它用气压来驱动的。
 2. 要使用液压的话需要其他的设计及商谈。
 3. 卡盘的气缸是以分离的形式构成的，因此卡盘可以另外使用。
1. 척과 실린더가 조합된 FIXTURE이며 공기압을 사용하여 구동합니다.
 2. 유압을 사용하려면 별도의 설계가 필요하므로 상담이 필요합니다.
 3. 척과 실린더가 분리형으로 구성되어 있어 척을 별도로 사용 가능합니다.



Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E	F	G	H	I	J	K	L
SM-FXA 06		305	275	242	85	28	4-M16	30.5	26	2-PT1/4	165	69	154
SM-FXA 08	210										80	165	

Specifications • 规格 • 사양표

Model	Spec.	Jaw Stroke (diameter) mm	Gripping Dia mm		Max. Pressure kgf/cm ²	Max. static gripping force KN(kgf)	Effective Piston Area cm ²		Piston Stroke mm	Weight(With standard soft jaws)	Chuck
			Max	Min			Extend	Retract			
SM-FXA 06		6.9	165	20	5.5	41.1(4,200)	263	263	15	38	CAS 6
SM-FXA 08		7	210	18	7	51(5200)	263	263	20	48	CAS 8

STATIONARY AIR CHUCK

加工中心用气动卡盘 / 스테이션어리 에어 척

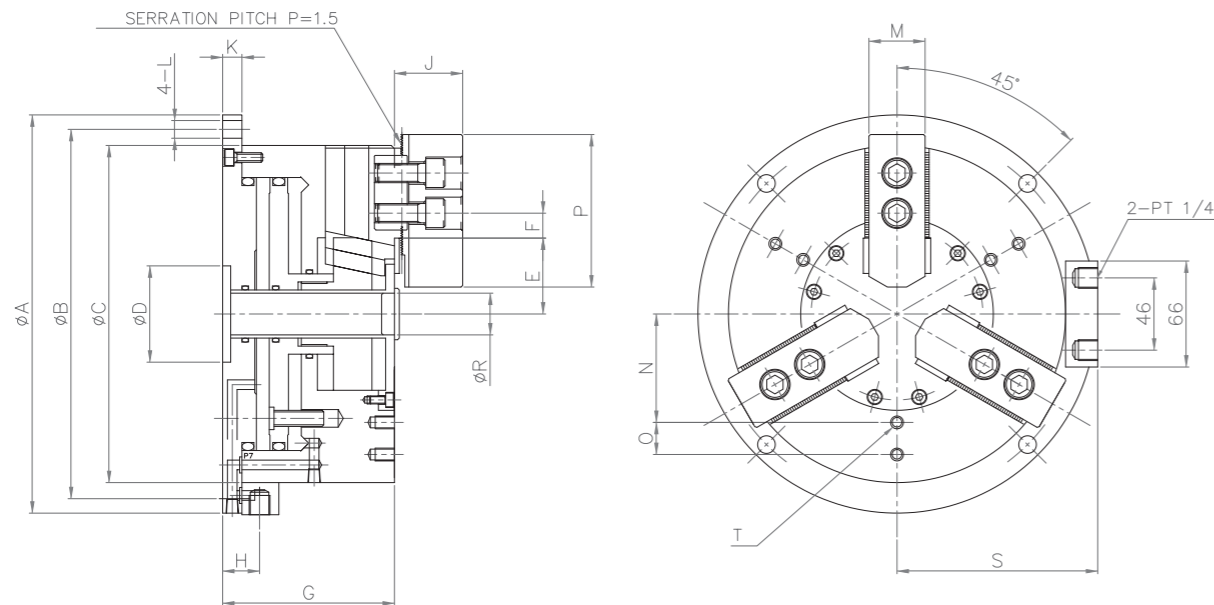


1. This is fixture by combined chuck and cylinder, Which is operating by air pressure.
2. If you using the hydraulic when it needs special planning by counselling
3. The chuck and cylinder were combined by all-in-one system. Therefore, It is easy to installing by light weight.

1. 是由卡盘与气缸组合的夹具, 它用气压来驱动的.
2. 要使用液压的时需要其他的设计及商谈.
3. 卡盘的气缸是以一体结构, 因此重量轻, 设计容易.

1. 척과 실린더가 조합된 FIXTURE이며 공기압을 사용하여 구동합니다.
2. 유압을 사용하려면 별도의 설계가 필요하므로 상담이 필요합니다.
3. 척과 실린더가 일체형으로 구성되어 있어 무게가 가볍고 설치가 용이합니다.

Outward Drawing • 外型图 • 외형도



Dimension • 尺寸 • 치수표

Model	Symbol	A	B	C	D	E max	E min	F max	F min	G	H	J	K	L	M	N	O	P	R	S	T
SM-FXB 04		147	130	110	35	27	24.25	9	6	75	21	29	10	9	25	—	—	54	4	75	—
SM-FXB 06		203	185	165	50	39	36.25	16.5	10.5	85	23	39	12	11	35	55	20	66	20	102.5	M6,DP10
SM-FXB 08		248	230	210	60	49	45.5	21	10.5	100	23	44	12	11	40	67	25	85.5	30	125	M8,DP13
SM-FXB 10		300	280	254	80	59	55.5	27	12	105	25	49	14	13	45	80	30	108	44	147	M8,DP13

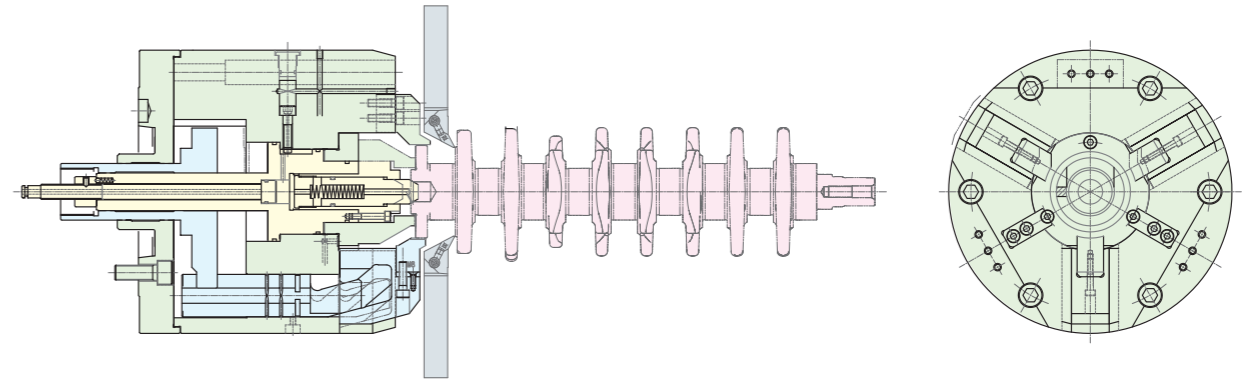
Specifications • 规格 • 사양표

Model	Spec.	Jaw Stroke (diameter) mm	Gripping Dia mm		Max. Pressure kg/cm ²	Max. static gripping force KN(kgf)	Effective Piston Area cm ²		Piston Stroke mm	Weight kg
			Max	Min			Extend	Retract		
SM-FXB 04		5.5	110	8	7	78(800)	60.1	57.7	13	6
SM-FXB 06		5.5	165	36	7	20.6(2100)	146.9	140.5	13	15
SM-FXB 08		7	210	38	7	33.3(3400)	245.2	236.7	16.5	26
SM-FXB 10		7	254	38	7	51(5200)	375.8	360.6	16.5	40

PRACTICAL APPLICATION

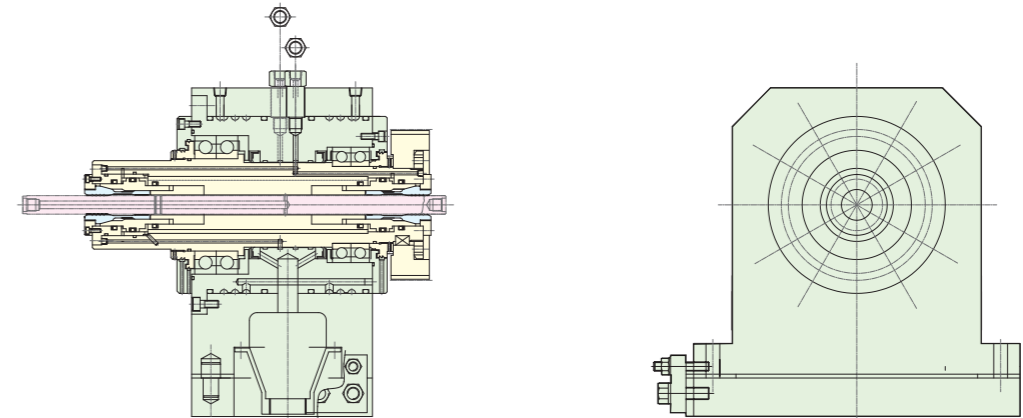
WEDGE BAR CHUCK

WORK : CRANK SHAFT



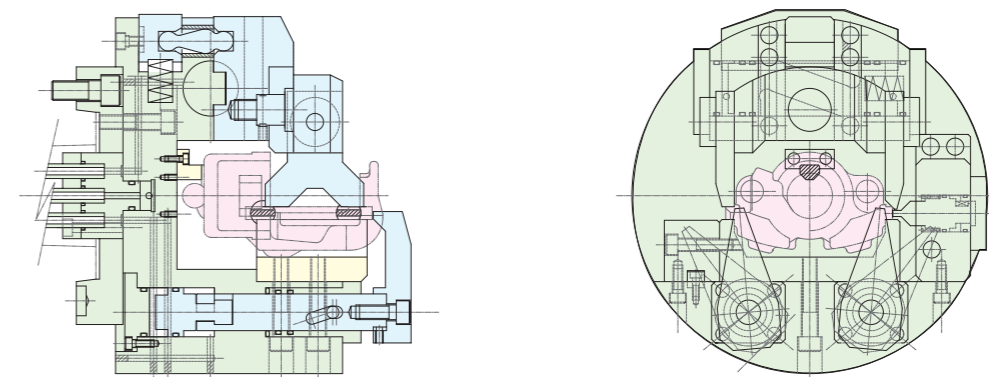
SPINDLE & COLLET CHUCK

WORK : SHAFT



FINGER & PUSHER CHUCK

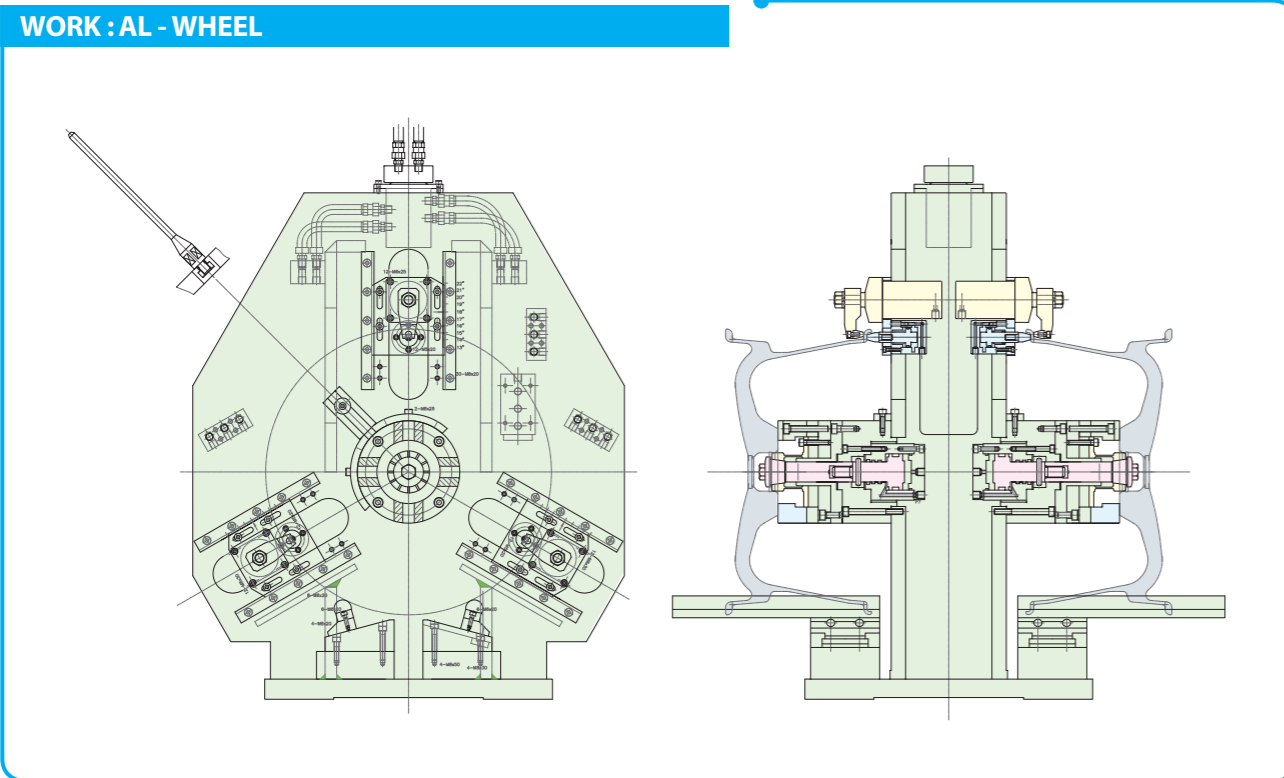
WORK : CALLIPER HOUSING



PRACTICAL APPLICATION

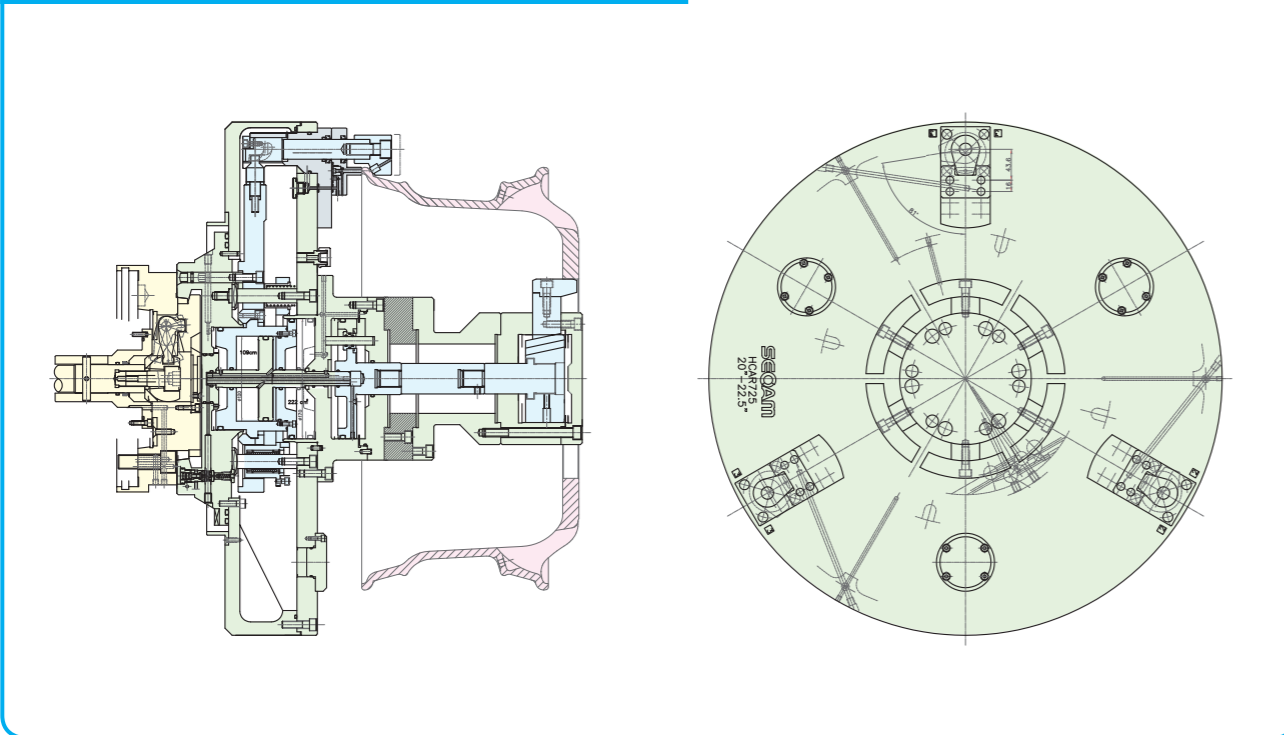
COLLET & FINGER TYPE FIXTURE

WORK : AL - WHEEL



WEDGE JAW & FINGER CHUCK

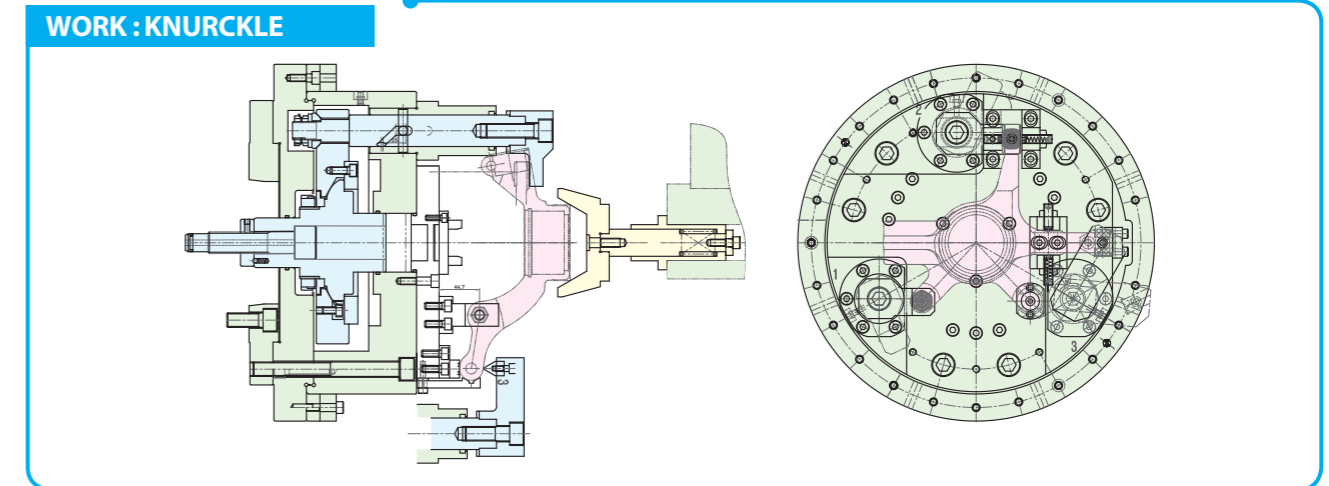
WORK : AL - WHEEL



PRACTICAL APPLICATION

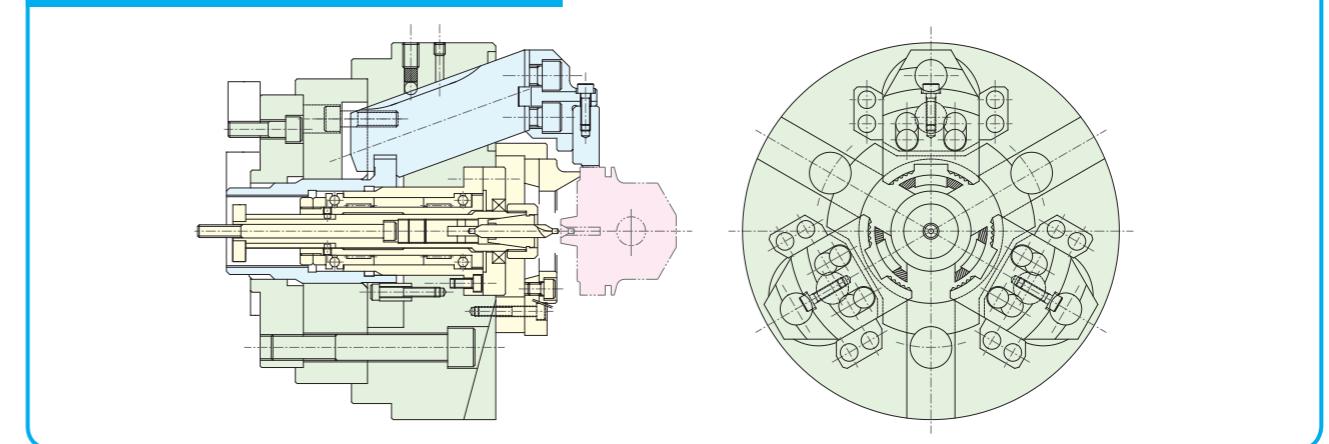
FINGER CHUCK

WORK : KNURCKLE



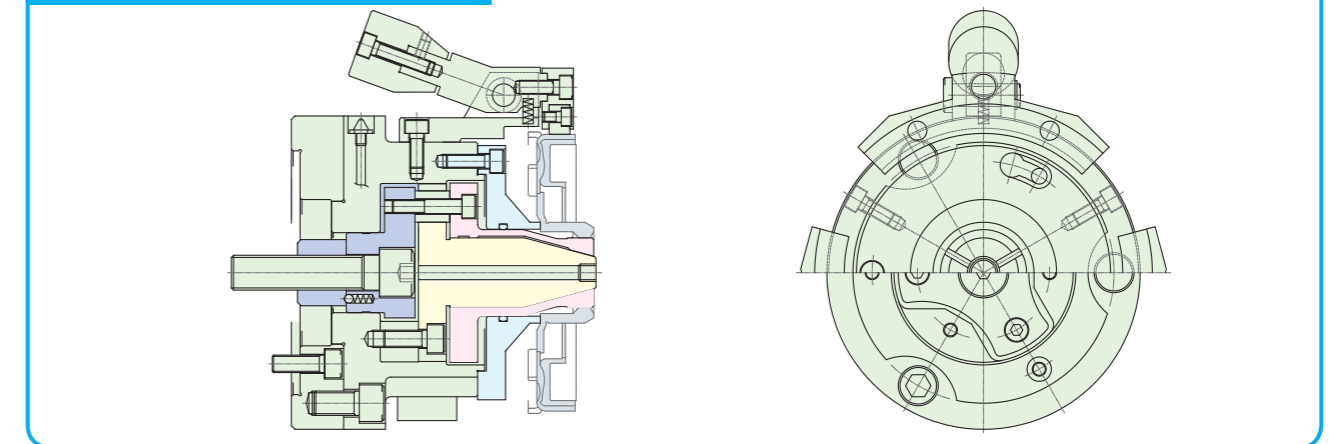
DRAW & DAWN CHUCK

WORK : PISTON



COLLET & SUB CLAMP CHUCK

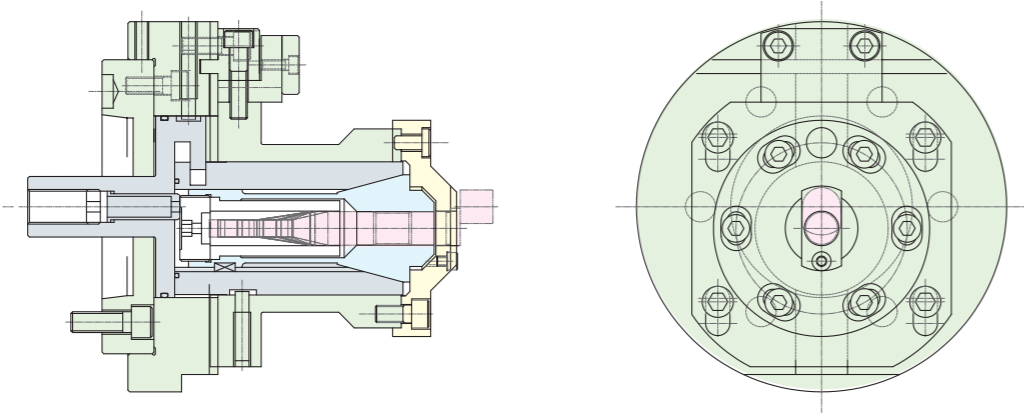
WORK : PRESS WORK



PRACTICAL APPLICATION

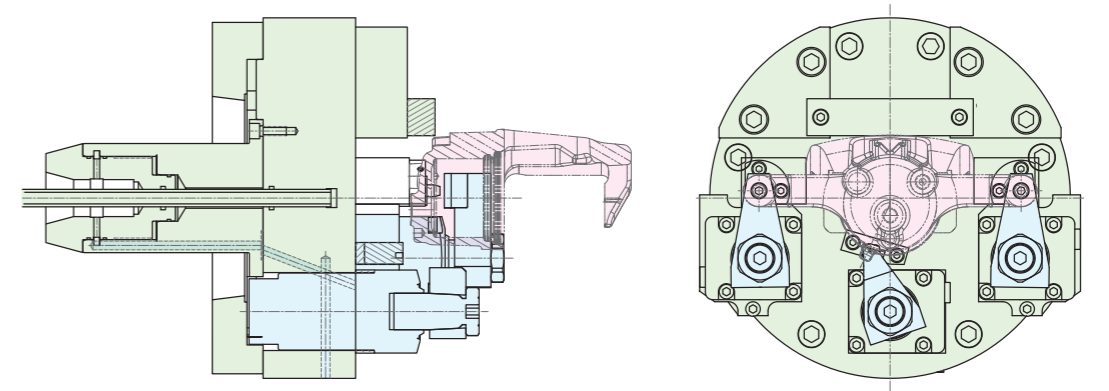
ECCENTRIC COLLET CHUCK

WORK : COMPRESSOR CRANK SHAFT



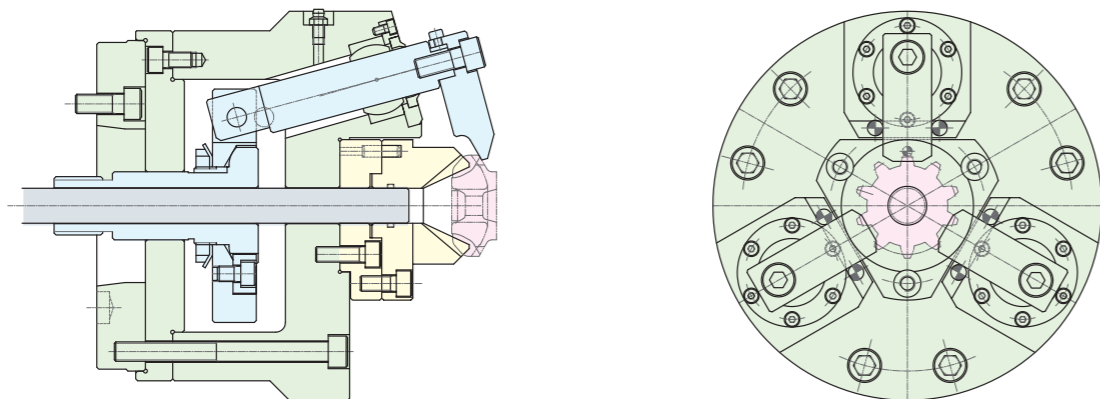
FINGER CHUCK

WORK : CALLIPER HOUSING



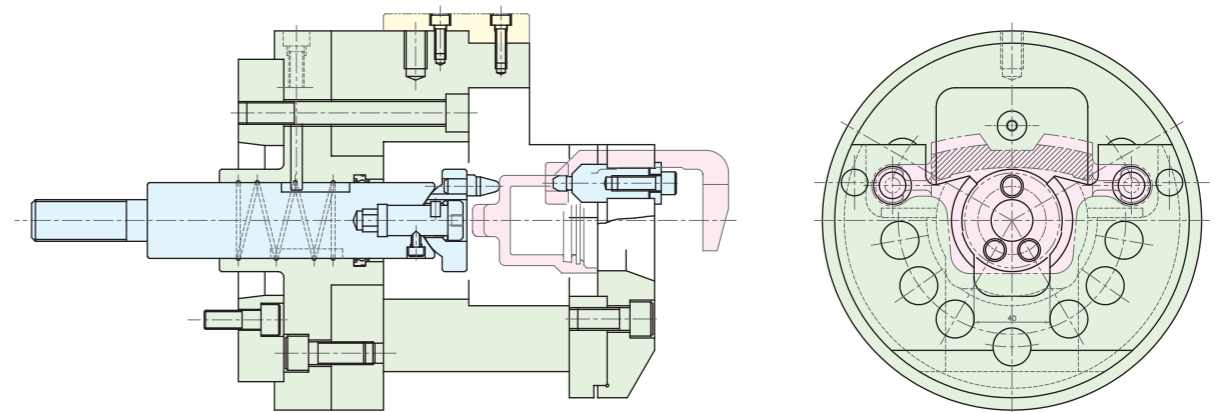
FINGER CHUCK

WORK : PINION GEAR



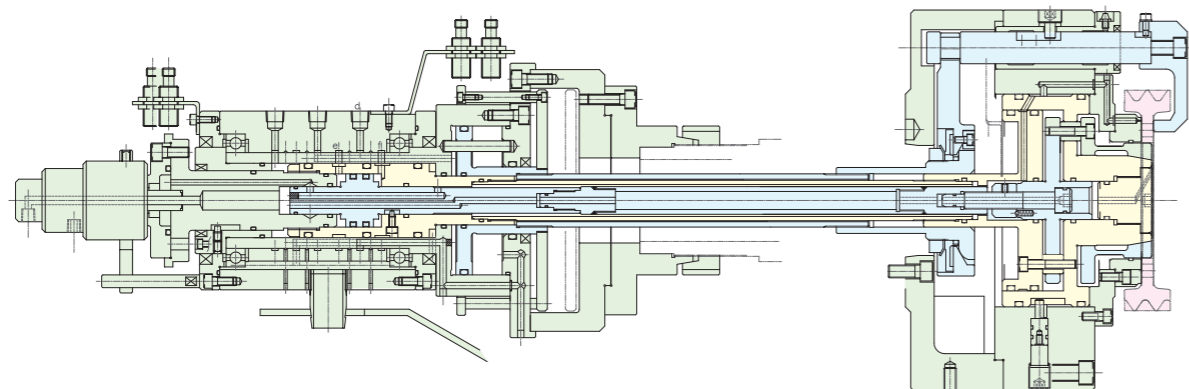
PUSHER CHUCK

WORK : CALLIPER HOUSING



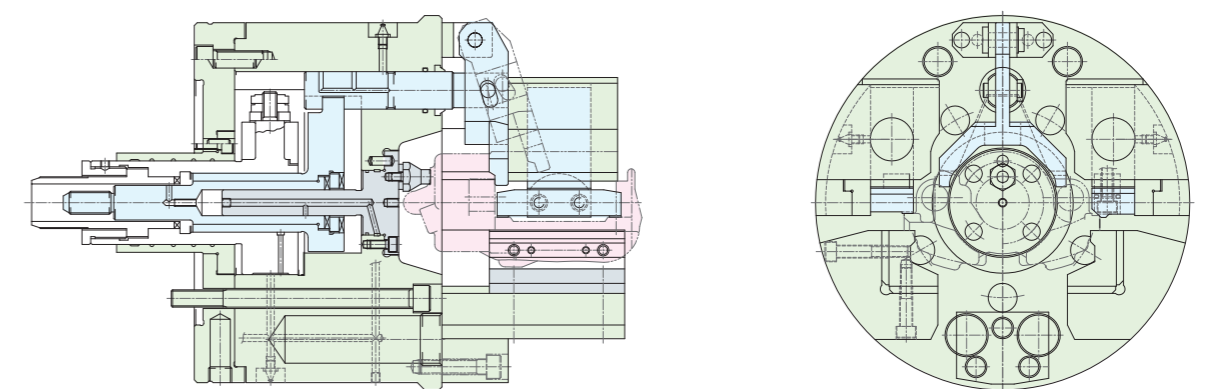
COLLET & FINGER CHUCK

WORK : DIFF DRIVE GEAR HARD TRUNNING



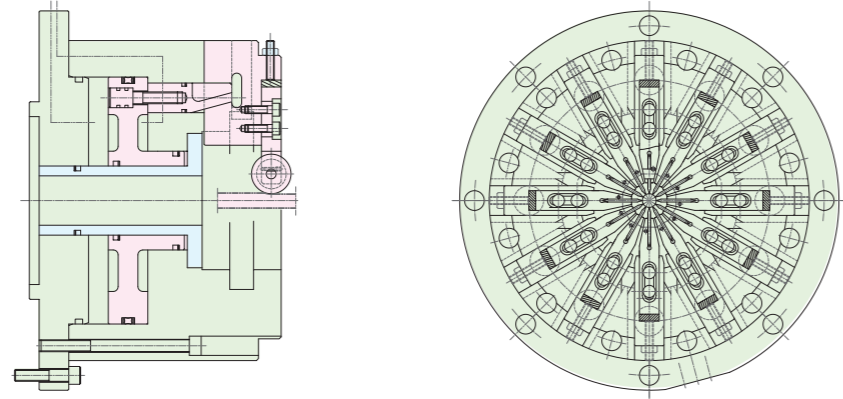
WEDGE BAR & LEVER CHUCK

WORK : CALLIPER HOUSING



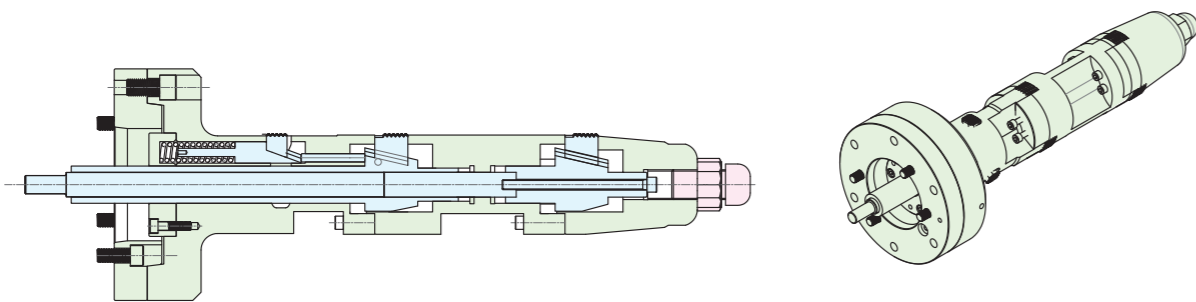
WEDGE BAR CHUCK

WORK : COPPER PIPE FORMING



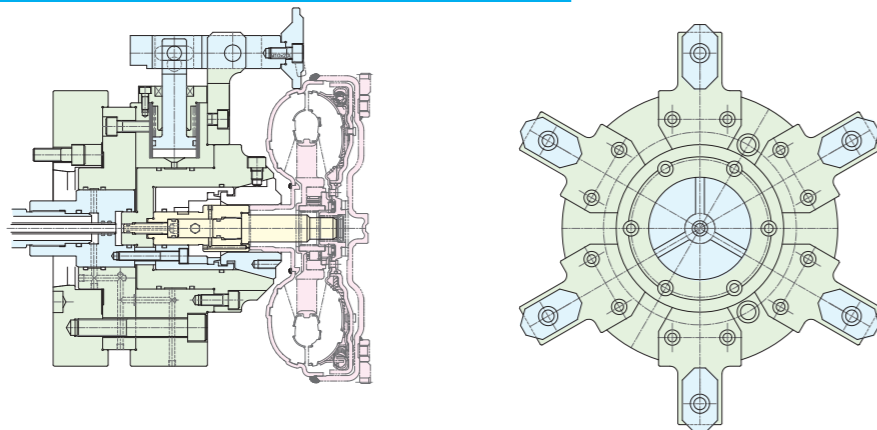
MANDREL CHUCK

WORK : LONG HOUSING



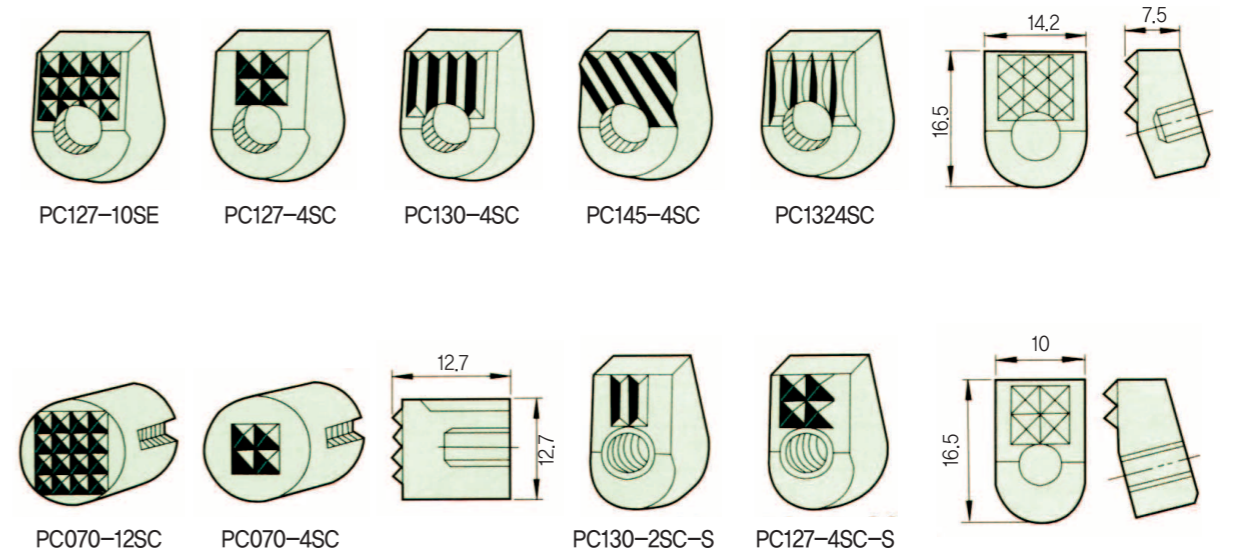
RUBBER COLLET & FINGER CHUCK

WORK : CONVERTOR ASS'Y



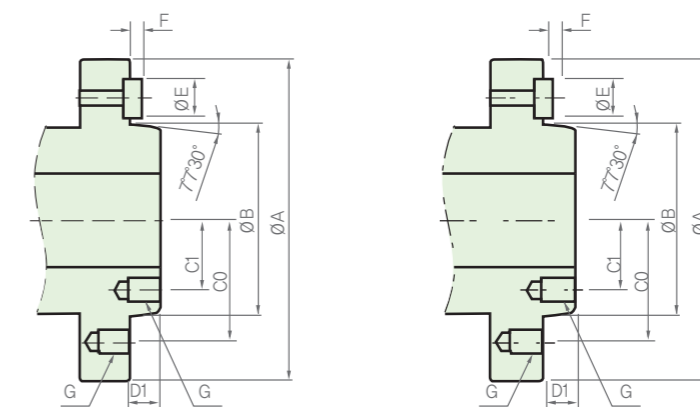
JAW INSERT

초경 인서트의 종류(INSETS)



SHORT TAPER SPINDLE NOSE

주축단 규격(SPINDLE STANDARDS)



Dimension · 尺寸 · 치수표

Spindle Nose	SPINDLE A1 - Type									SPINDLE A2 - Type									
	A	B	C0	C1	A1-Type D1	A2-Type D2	E	F	G	Spindle Nose	A	B	C0	C1	A1-Type D1	A2-Type D2	E	F	G
3	92	53.975	35.3	-	-	11	-	-	M10	11	280	196.869	117.5	82.55	19.55	18	28.6	8	M20
4	108	63.513	41.3	-	-	11	14.15	5	M10	15	380	285.77	165.1	123.8	20.64	19	34.9	8	M22
5	133	82.563	52.4	30.95	14.29	13	15.9	5	M10	20	520	412.775	231.8	184.15	22.23	21	41.3	8	M24
6	165	106.375	66.7	41.3	15.88	14	19.05	5	M12	28	725	584.225	323.8	265.1	25.40	24	50.8	8	M30
8	210	139.719	85.7	55.55	17.46	16	23.8	6	M16										

CHUCK & CYLINDER STRUCTURE

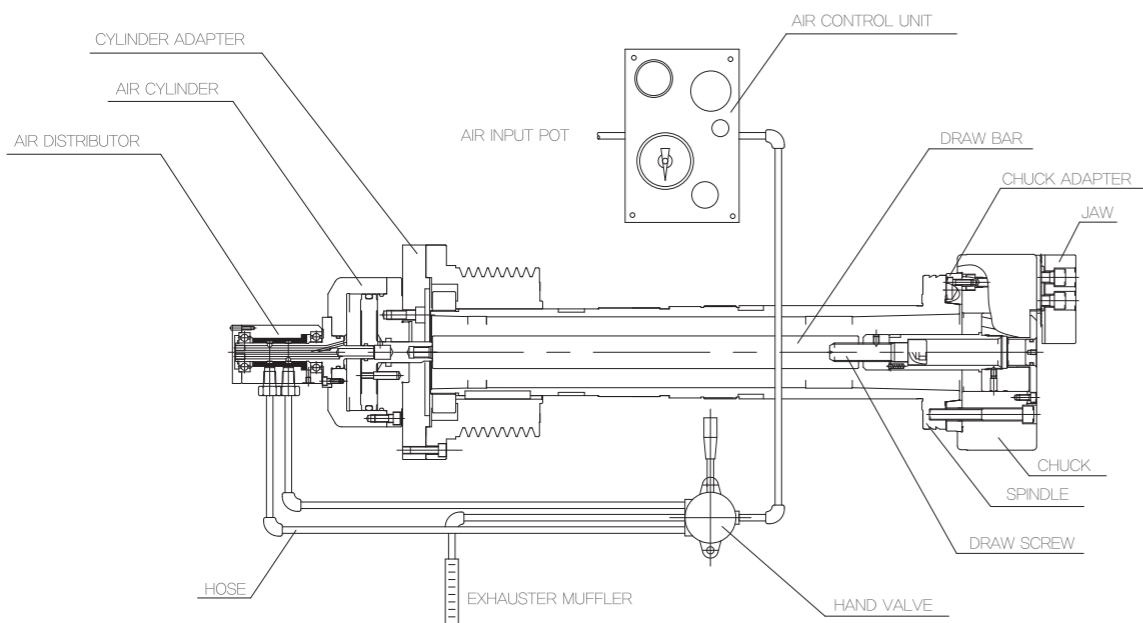
- The chuck attached to the front of spindle and the cylinder attached to the back. Those were linked by draw bar.
- The compressed air or hydraulic were supplied to the cylinder by the pressure controller and direction control valve.

- 主轴前部安装卡盘，后部安装汽缸，并用拉杆连接起来的。
- 压缩空气或者液压是通过压力控制器和方向调节管道来供给汽缸。

- SPINDLE 前部에는 CHUCK을 後部에는 CYLINDER를 부착하고 DRAW BAR에 의해서 연결되 있습니다.
- 압축공기 또는 유압은 압력제어기기와 방향조절밸브를 통해서 CYLINDER에 공급됩니다.

CHUCK(AIR)

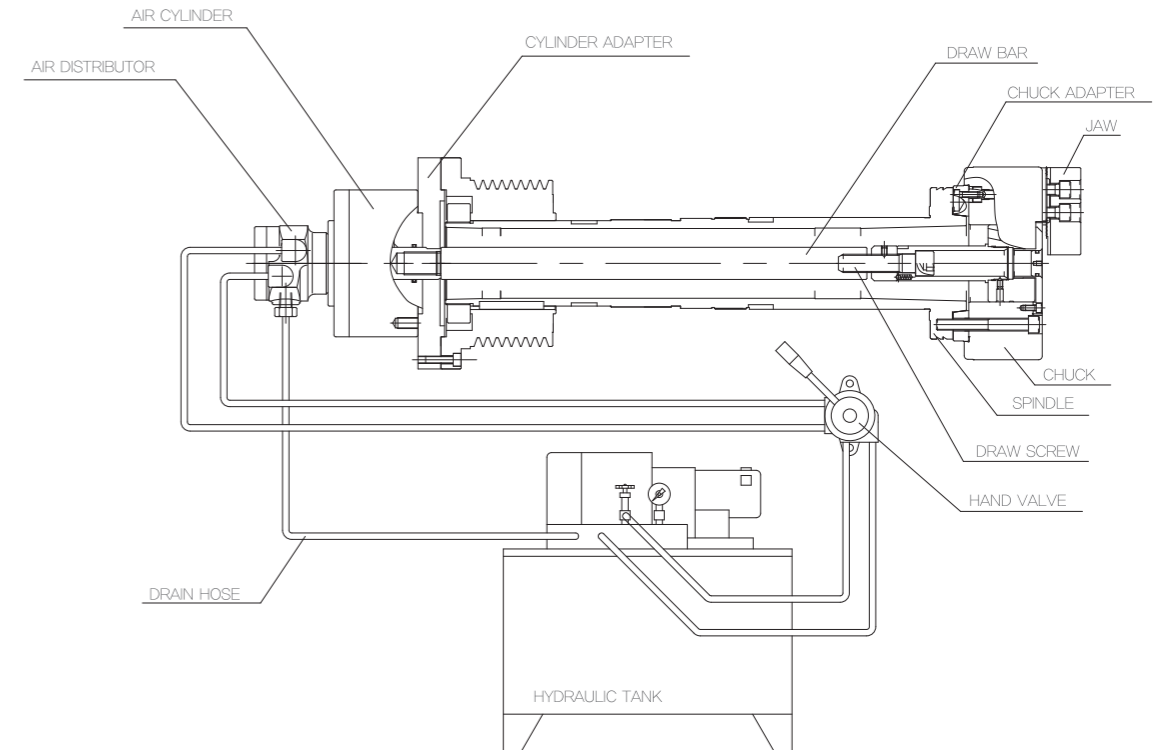
- The compress air go to the air control unity and purified by air pressure filter. Lately, it decompressed to air pressure by pressure control valve.
- This pressure marked to manometer and it goes to direction control valve with lubricating oil.
- The compressed air is inputted to the cylinder piston by direction control valve. And also, The opposite piston's air is excreted to the atmosphere.
- 压缩空气是进入到调压器里，经过气动滤器净化后，减压成压力调节阀中需要的气动。
- 在压力表上标注压力数据，随润滑油一起进入到方向调节管道里。
- 压缩空气是根据方向调节管道注入到气缸活塞里，同时活塞后面的空气是排放在大气中。
- 압축공기는 AIR CONTROL UNIT에 들어가고 공기압 FILTER를 관통하여 정화되어 압력조절 밸브에서필요한 공기압으로 감압됩니다.
- 이 압력은 압력계의 지침에 표시되고 윤활유와 더불어 방향조절밸브에 들어갑니다.
- 압축공기는 방향조절밸브에 의해 CYLINDER PISTON에 주입되며 동시에 반대편 PISTON의 공기는 大氣中에 배출됩니다.



CHUCK & CYLINDER STRUCTURE

CHUCK(HYDRAULIC)

- The pressed oil goes to the rotation cylinder by the direction control valve. Which were purified and pressed in oil pump unit. And also, the Leaked pressed oil returned to the tank.
- The hydraulic cylinder is different to Air cylinder. Therefore, drain pot and hydraulic tank will be connected by vinyl hose.
- 在液压泵器中已净化和调压而成的压油是通过方向调节阀进入到回转油缸中，渗漏压油还原罐里。
- 液压油缸不同于气缸，有排出口，所以请排出口和液压罐用塑料软管连接。
- 유압 PUMP UNIT에서 淨化和 調壓 되어진 압유는 방향조절밸브를 통하여 회전 CYLINDER에 들어가고 LEAKAGE된 압유는 TANK에 환원 됩니다.
- 유압 CYLINDER는 AIR CYLINDER와 틀려서 DRAIN POT와 유압TANK는 VINYL HOSE 등으로 연결하여 주십시오.



AFFILIATE

화천기공주식회사
HWACHEON MACHINE TOOL CO.,LTD.



화천기계주식회사
HWACHEON MACHINERY CO.,LTD.



티피에스코리아주식회사
TPS KOREA CO.,LTD.



SEOAM
서암기계공업주식회사
SEOAM MACHINERY INDUSTRY CO.,LTD.

*Seoam Machinery
boasts the highest quality and precision product.*

*We will make a great effort to satisfy customers
with self-confidence of the best*

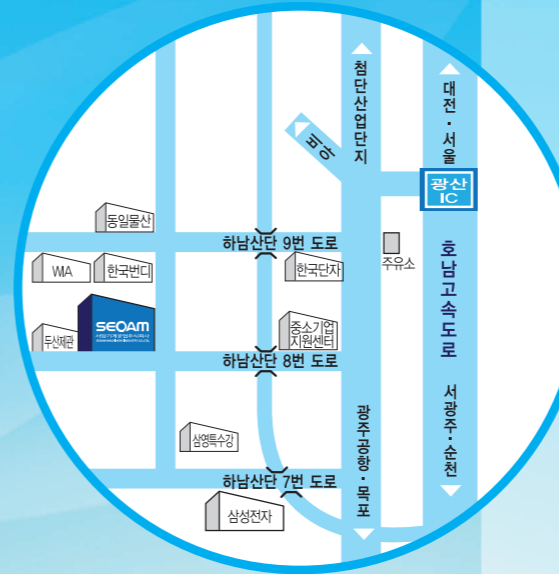
By manufactured high quality Gear, Power Chuck & Hydraulic Cylinder, Curvic Couplings, and Gear Reducers, The SEOAM contiually make effort for customers that they will look for SEOAM to be believed our reliable capability from customers again and sincerely promise with customers to support products or services.

瑞岩机械引以为荣的是拥有“最高品质”和“最高精度”的产品。以最大的自信，尽最大的努力。

瑞岩机械生产超精密齿轮，动力卡盘，油压油缸，端面齿盘，减速器等，瑞岩机械通过不断的努力和卓越的技术制造一流品质的产品，出口国际市场，为成为世界水平的公司而不懈努力。

서암기계는 “최고의 품질”과 “고정밀도 제품”을 자랑합니다. 서암기계는 최고라는 자부심으로 최선을 다합니다.

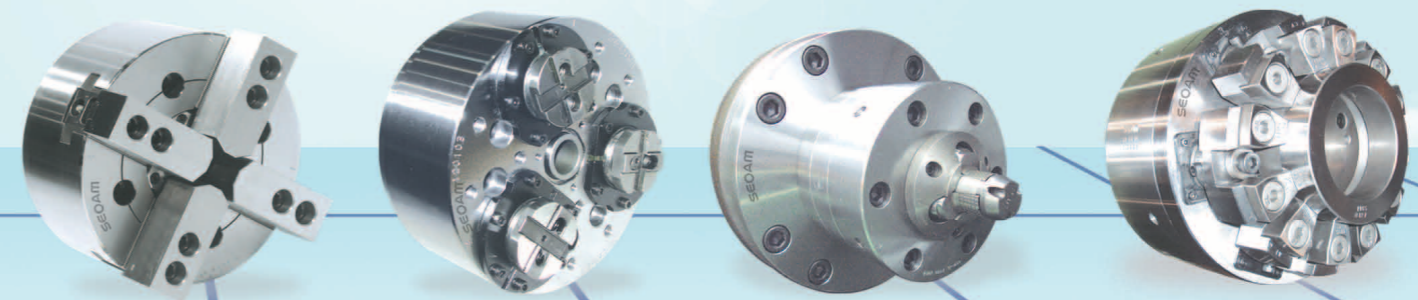
초정밀기어, 파워척과 유압실린더, 커빅커플링, 감속기등을 생산하고 있는 서암기계는 끊임없는 노력과 우수한 기술력을 바탕으로 고객이 믿고 찾을 수 있는 제품과 서비스를 제공하여 드릴것을 약속하겠습니다.



✈️	Operation Area	Duration	Frequency
	Seoul ↔ GwangJu	50minute	7
	Seoul ↔ Mokpo	55minute	5
	Seoul ↔ Muan	55minute	1

🚆	Operation Area	Duration	Frequency
	GwangJu ↔ Seoul	160minute	10
	Songjungri ↔ Seoul	170minute	9
	Songjungri ↔ Mokpo	35minute	9

🚌	Operation Area	Duration	Frequency
	GwangJu ↔ Seoul	210minute	30
	GwangJu ↔ Pusan	210minute	10
	GwangJu ↔ Daejeon	110minute	16



SEOAM
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