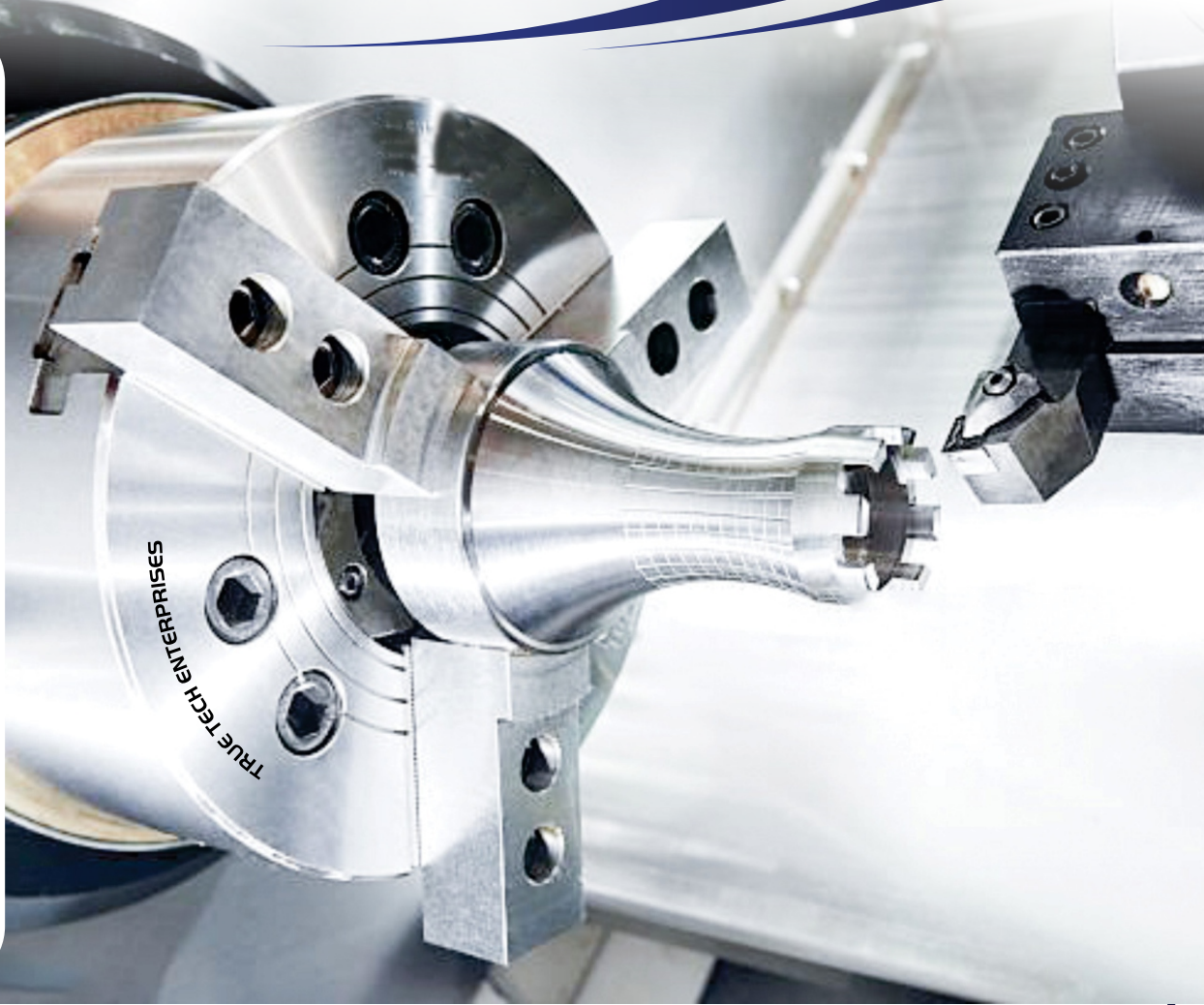


TRUE TECH ENTERPRISES

"HOUSE OF CHUCK"

COMPANY PROFILE



Digital Brochure

MFG. OF **POWER CHUCK**, CHUCK SPARES,
POWER PACK, CYLINDERS, etc.

ABOUT TRUE TECH ENTERPRISES

TRUE TECH ENTERPRISES was established in 2017 focusing on developing and manufacturing machine chucks & parts including power chucks, Hydraulic Cylinders, Power Pack and Clamping Series and Many More

BUSINESS PHILOSOPHY

Our customers satisfaction is the greatest supports for us to become more and more prosperous We embrace the faith of honesty and integrity to instantly provide optimal solutions to our customers to satisfy their diversified demands



VISION

To create a diverse and sustainable ecosystem where our employees and clients flourish in a non-complacent market, driving mutual growth and success.



PURPOSE

To fuel our customers' growth by enhancing productivity and ease of operations through our simple yet innovative, effective, and reliable solutions

Core Values



TEAM WORK

Collaborating effectively with others to achieve common goals through shared effort and communication.



CUSTOMER DELIGHT

Making customer satisfaction our priority by actively listening, anticipating needs, and delivering the best service.



INTEGRITY

Upholding honesty and ethical principles, consistently doing what's right, even when no one is watching.



EXCELLENCE

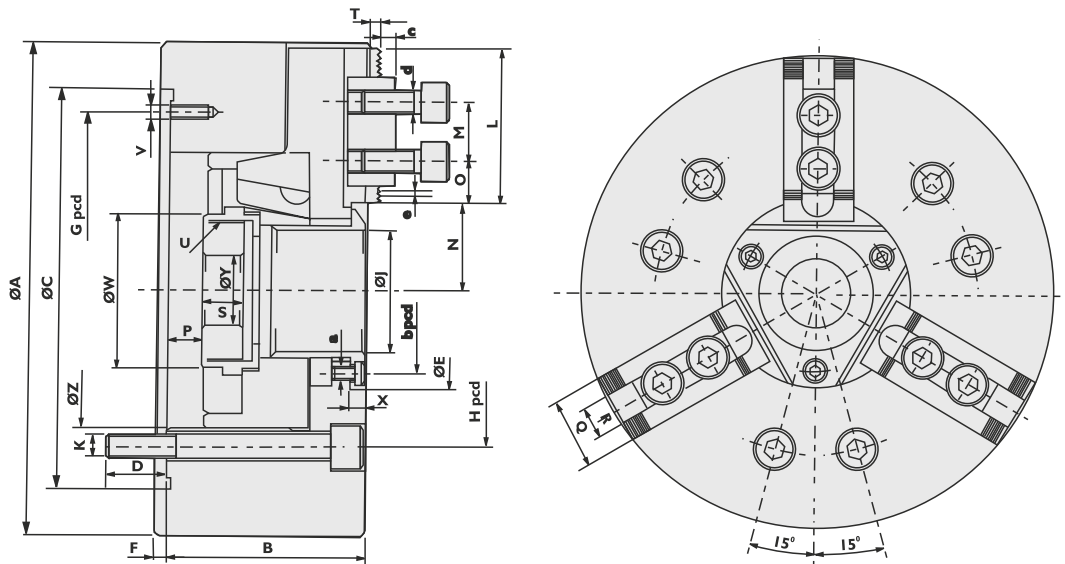
Continuously improving and setting high standards to achieve the best possible results in every task and endeavour

3 Jaw Power Chucks



Manufactured from high-grade alloy steel, all the sliding surfaces of this chuck are hardened and ground for accurate running and long service. Standard hard jaws and soft jaws are provided for chucking the special components.

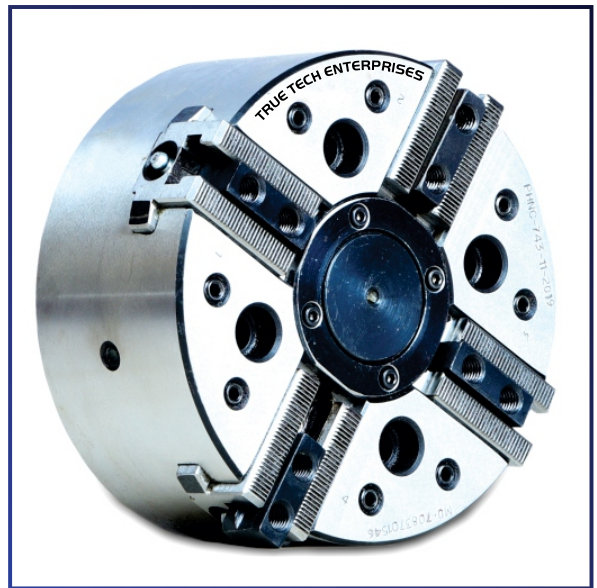
The Wedge design of the chuck has a self-locking feature, that prevents accidents and it does not loose its gripping power even at cutting loads. Each base jaw is provided with a lubricating nipple to ensure long and trouble free life.



Dimensions

Model	I35 WH	I65 WH	200 WH	250 WH	305 WH	380/400 WH	450 WH	500/530 WH	610 WH	750 WH
A	135	169	210	254	305	381/400	450	500/530	610	750
B	56	76	86	95	104	127	127	134	143	165
C (H6)	110	140	170	220	220	300	380	380	380	460
D	15	16	17.5	23	22.5	25	25	31	31	42
E (H7)	58	70.5	82	105	120	172	172	200	210	250
F	4	5	5	5	6	6	6	6	6	8
G	96	116	150	190	190	260	320	340	340	425
H	82.56	104.78	133.35	171.45	171.45	235	235	330.2	330.2	380
J (H7)	33	45	52	68	78	117.5	117.5	140	165	200
K	3 x M10	3 x M10	6 x M12	6 x M16	6 x M16	6 x M20	6 x M20	6 x M22	6 x M22	6 x M24
L	41	52.5	65.5	77	93	108.4/119	141	151/165	195	243
M	14	20	25	30	30	43	43	60	60	60
N (Max)	27	33	37.5	50	59	82	82	98	108	130
N (Min)	24.3	30.25	33.8	45.6	53.7	76.7	76.7	92.7	102.7	119.5
O (Max)	21	25	30	33	49	45.4/55	78	81	112	156
O (Min)	6	8.5	10.5	11	11.5	17	17	23	23	27
P (Max)	1.5	11	15.5	9	14	14	14	11	11	19
P (Min)	-8.5	-1	-0.5	-10	-9	-9	-9	-12	-12	-21
Q	27	32	37	40	50	62	62	65	65	85
R (H6)	10	12	14	16	18	24	24	25	25	30
S	17.5	15	16.5	25	28	30	30	33	33	40
T	2.5	2.5	6	4.5	5	5	5	5	5	8
U (Max)	M40 x 1.5	M55 x 1.5	M60 x 2	M75 x 2	M88 x 2	M130 x 2	M130 x 2	M158 x 2	M176 x 2	M215 x 2

4 Jaw Power Chucks



WEDGE-HOOK type 4-jaw with the large through-hole.

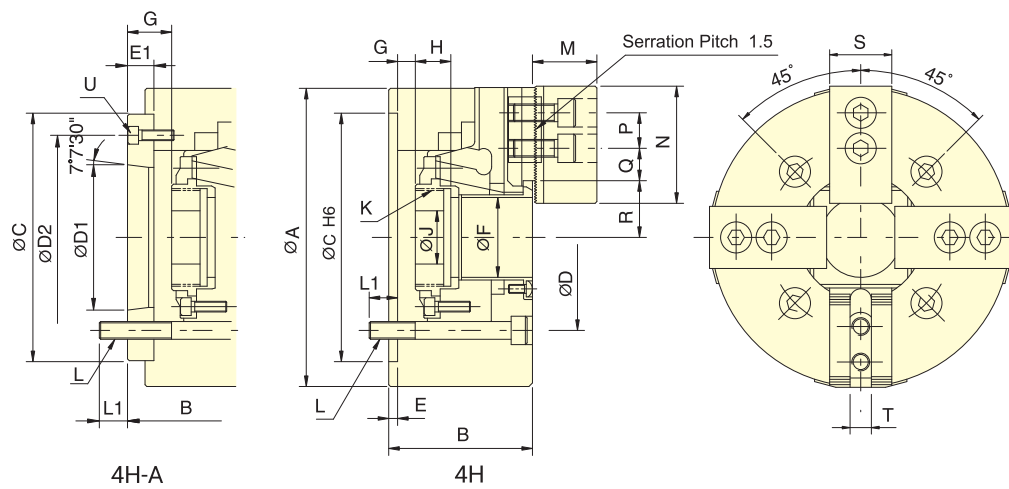
Matching surfaces of all parts hardened, ground and lubricated directly.

High rigidity and high clamping accuracy.

J is the hole diameter of blank draw nut.

If not notified, TRUE TECH ENTERPRISES will adopt the K Default as K value.

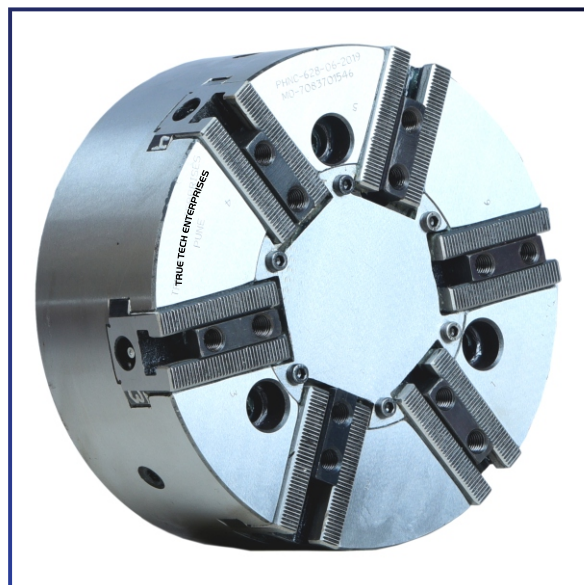
K is the maximum thread specification and it could be customize



SPECIFICATIONS

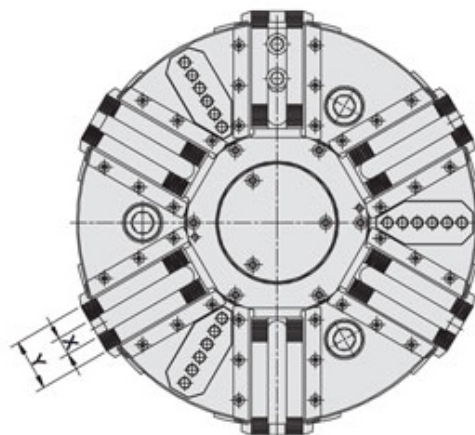
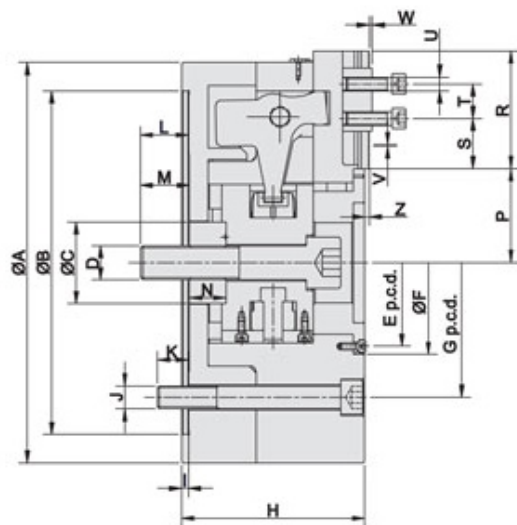
Model		Plunger stroke	Jaw stroke (Dia.)	Chuck Dia. Max.	Chuck Dia. Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight		Matching cyl.	Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min ⁻¹ (r.p.m.)	kg · m ²	kg	MPa (kgf/cm ²)		
4H-206	A5	14	6.0	170	13	23.2(2375)	66.7(6810)	5000	0.06	12.5	16.7	TK-C646	2.5(25)
4H-208	A5	18	7.6	210	17	34.3(3500)	85.8(8750)	4200	0.19	23.5	25.4	TK-A853	2.8(28)
4H-208	A6	18	7.6	210	17	34.3(3500)	85.8(8750)	4200	0.19	23.5	24.3	TK-A853	2.8(28)
4H-210	A6	21	8.9	260	37	49.1(5010)	110.7(11300)	3800	0.4	38.7	44	TK-A1075	3.2(32)
4H-210	A8	21	8.9	260	37	49.1(5010)	110.7(11300)	3800	0.4	38.7	42.3	TK-A1075	3.2(32)
4H-12	A8	25	10.6	304	34	54.9(5600)	143.6(14650)	2700	0.77	62	65.7	TK-A1291	2.5(25)
4H-15	A8	23	10.6	381	50	71(7250)	179.8(18350)	2000	2.5	123.7	137.7	TK-A1512	2.3(23)
4H-15	A11	23	10.6	381	50	71(7250)	179.8(18350)	2000	2.42	123.7	130.7	TK-A1512	2.3(23)
4H-18	A11	23	10.6	450	50	71(7250)	179.8(18350)	1700	4.85	170	184	TK-A1512	2.3(23)

6 Jaw Power Chuck



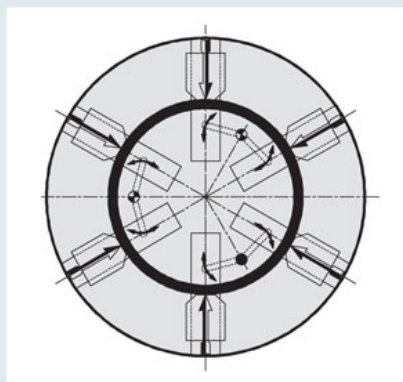
Application

These chucks are specifically designed to hold large diameter thin walled components, Aluminium components of Turbines and Couplings, Precision Railway wheels and large size Gear blanks of Earth moving equipments. Normally these chucks are manufactured in size above 500 in diameter for mounting on vertical lathes. But smaller size chucks up to 250 dia also possible to be manufactured against specific requirements.



Dimensions

MODEL	SCC 200	SCC 250	SCC 350	SCC 500	SCC 630
A	203	250	350	500	630
B	170	220	300	380	380
C	60	60	71.5	71.5	60
D	M30	M30	M30	M30	M30
E	116	116	146	146	250
F	130	130	160	160	275
G	133.4	171.45	235	235	330.2
H	105	121	160	160	220
I	5	6	6	6	6
J	3 x M12	3 x M16	3 x M20	6 x M20	6 x M22
K	28	28	35	35	35
L Max.	42	42	42	42	40
L Min.	30	30	30	30	16
M	40	40	43	43	52
N	30	30	32	32	25
P Max.	46.1	69	82	82	115
P Min.	40.1	61.5	75	75	106
R	59	65	103	178	208
S Max.	22	28	59	130	140
S Min.	17	17	19	19	24
T	25	25	30	30	45
U	M10	M10	M12	M16	M16
V	1/16"x90°	1/16"x90°	1/16"x90°	3/32"x90°	3/32"x90°
W	4	4	4	4.5	4.5
X	12	12	16	21	21
Y	35	35	45	60	60
Z	4	4	4	4.5	4.5



2 Jaw Power Chuck



THRU-HOLE POWER CHUCK

Thru-Hole | 2-JAW

WEDGE-HOOK type 2-jaw with the through-hole.

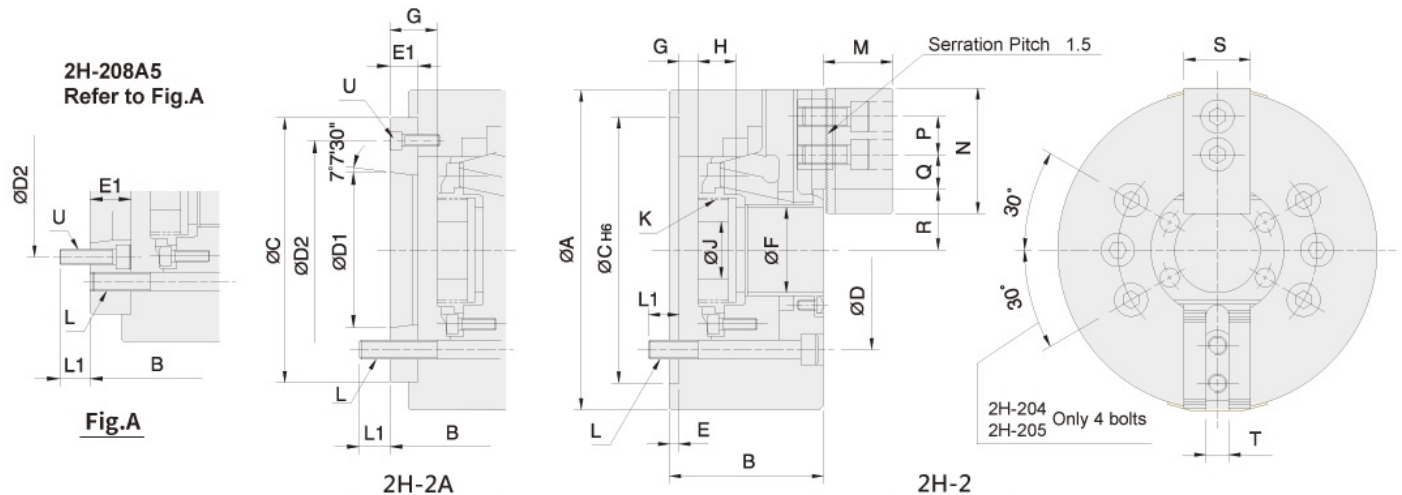
Matching surfaces of all parts hardened, ground and lubricated directly.

High rigidity and high repeatability precision.

J is the hole diameter of blank draw nut.

If not notified, AUTOGRIP will adopt the K Default as K value.

K is the maximum thread specification and it could be customize.



DIMENSIONS

Model		A	B		C	D	D1	D2	E	E1	F	G max.		G min.		H	J
2H-204	A4	113	59	83	85	70.6	63.51	82.6	4	28	32	3.5	31.5	-9.5	18.5	17.5	12
2H-205	A4	138	60	71	110	82.6	63.51	96	4	15	39	1	16	-12	3	20	12
2H-206	A5	170	81	91	140	104.8	82.56	116	5	15	53	13	28	-1	14	17.5	20
2H-208	A5	210	91	109	170	133.4	82.56	104.8	5	23	66	16.5	39.5	-1.5	21.5	20	30
2H-208	A6	210	91	103	170	133.4	106.38	150	5	17	66	16.5	33.5	-1.5	15.5	20	30
2H-210	A8	260	102	115	220	171.4	139.72	190	5	18	86	10.5	28.5	-10.5	7.5	25	45
2H-12	A8	304	110	122	220	171.4	139.72	190	6	18	91	8	26	-15	3	28	50
2H-15	A8	381	133	160	300	235	139.72	171.4	6	33	120	11	44	-12	21	39	60
2H-15	A11	381	133	149	300	235	196.87	260	6	22	120	11	33	-12	10	39	60

Model		K max.		K Default		L		L1		M	N	P	Q max.	Q min.	R max.	R min.	S	T	U
2H-204	A4	M38x1.5		M32x1.5		4~M10		16	15	24	52	14	12.75	6.75	25	22.25	23	10	3~M10
2H-205	A4	M45x1.5		M40x1.5		4~M10		14.5	14.5	31	62	14	20.25	6.75	29.5	26.75	25	10	3~M6
2H-206	A5	M60x2		M55x2		6~M10		16	16	37	73	20	22.75	9.25	36	33	31	12	3~M6
2H-208	A5	M75x2		M60x2		6~M12		17	18	38	95	25	23.7	10.2	45.7	41.9	35	14	6~M10
2H-208	A6	M75x2		M60x2		6~M12		17	15	38	95	25	23.7	10.2	45.7	41.9	35	14	3~M6
2H-210	A8	M95x2		M85x2		6~M16		20	22	43	110	30	32.2	12.7	56.5	52.05	40	16	3~M8
2H-12	A8	M100x2		M100x2		6~M16		23	25	51	130	30	45.8	15.8	61.3	56	50	21	3~M8
2H-15	A8	M130x2	M115x2	M130x2	M100x2	6~M20		30	24	63	165	43	47.3	18.2	80	74.7	62	25.5 or 22	6~M16
2H-15	A11	M130x2		M130x2		6~M20		30	28	63	165	43	47.3	18.2	80	74.7	62	25.5 or 22	3~M10

Front Operated Self-Contained Power Chucks



These self-contained power chucks have been designed for machining of bar stocks, pipes and flanges. The chucks are activated by a built-in cylinder, which eliminates drawbar/drawtube, thus keeping the bore free.

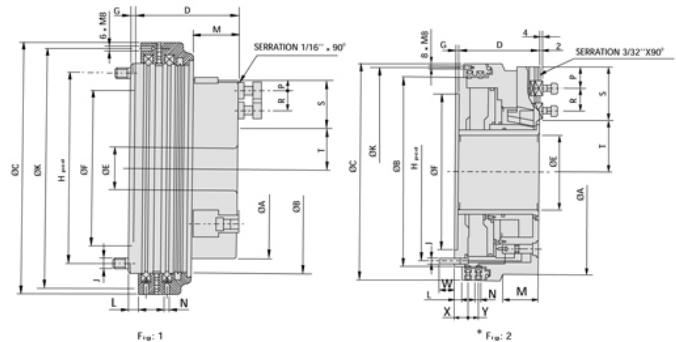
The compressed air is fed into the chucks through the profile seals only when the chucks are in a stationary condition.

The compressed air actuates the piston rod through the non-return safety valve.

The movement of the jaws is controlled by the force acting on the piston that is transmitted to the base jaw by the chucking piston through the wedge systems.

The salient features of the self-contained chucks are-

- * Built-in cylinder
- * High gripping force
- * No need of draw bar / draw tube
- * Easy for mounting
- * Chucking & unchucking with spindle top
- * Spindle bore is free for bar work
- * Double non-return safety valve



Dimensions

Model	WHFO 125-26	WHFO 160-38	WHFO 200-52	WHFO 250-68	WHFO 315-90	WHFO 315-105	WHFO 400-140*	WHFO 500-160*
A	130	165	205	255	320	335	422	500
B	160	205	248	315	350	315	400	500
C	204	260	308	375	413	375	478	570
D	105	125	129	144	151.5	151	190	215
E (H7)	26	38	52	68	90	105	140	170
F (H6)	120	155	195	235	270	235	300	415
G	5	5	5	5	5	5	8	8
H	137	180	223.8	290.5	318	290.5	374	474
J (6 NO.)	M8 x 30	M12 x 40	M12 x 40	M12 x 40	M12 x 40	M12 x 40	9 x M12	12 x M12
K	190	242	242	358	397	358	448	550
L	10	14	14	16.5	22.5	20.5	20	20
M	35	46	46	52	52	53	73	93
N	R1/8"	R1/4"	R1/4"	R1/4"	R1/4"	R1/4"	R3/8"	R3/8"
P (Min)	6	10	8	14	10	14	13.75	15.5
P (Max)	25	15	40	31	71	45	59.25	61.5
R	17	25	24	30	29	36	43	60
S	40	50	59	75	95	95	116	137
T (Max)	28	37	48	60	70	78	100	120
W	-	-	-	-	-	-	25	27
X	-	-	-	-	-	-	34	34
Y	-	-	-	-	-	-	46	46

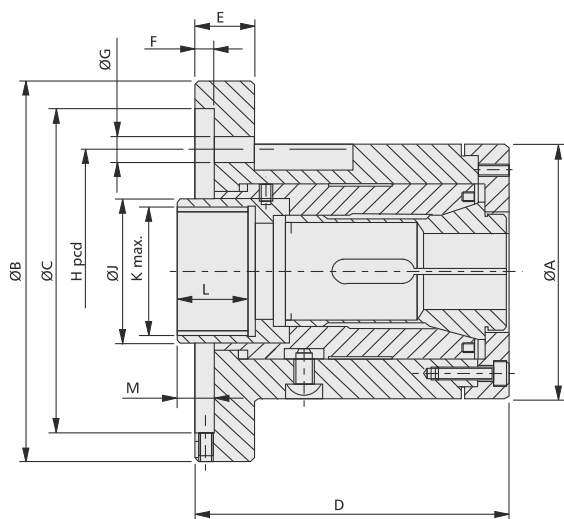
Power Operated Collet Chucks



Designed as a low cost alternative to Power Chucking Systems, these chucks are used for machining work pieces that cannot be chucked optionally in power operated jaw chucks.

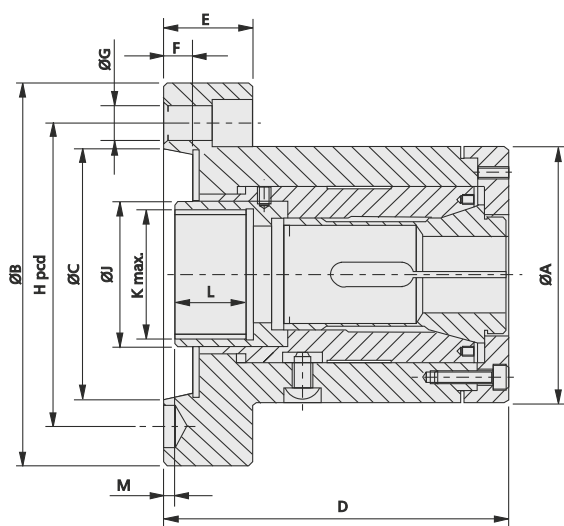
They are ideal for machining parts that are susceptible to deformation or surface damage or components that require high speed machining. They are equipped with a lubrication facility that ensures a long, trouble free life.

These chucks have a self-adjusting ability, which can automatically accommodate small variations in the diameter of the bar throughout its length.



Dimensions

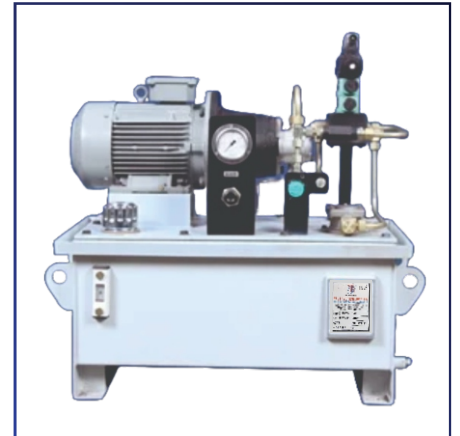
Model	PCCDLR 25	PCCDLR 40	PCCDLR 60	PCCDLR 80
A	95	110	138	160
B	135	165	185	205
C (H6)	80	140	170	190
D	115	133	148	159
E	20	25	25	30
F	8	8	8	8
G	3 x 11	3 x 11	3 x 14	6x17.5
H	104.8	104.8	133.4	162
J	45	62	80	102
K	M38 x 1.5P	M55 x 1.5P	M70 x 1.5P	M90x2P
L	20	24	24	25
M (Max.)	10.5	13	15.5	13
M (Min.)	3.5	6	8.5	6



Dimensions

Model	PCCDLA 25	PCCDLA 40 A2-5	PCCDLA 40 A2-6	PCCDLA 60
A	95	110	110	138
B	135	135	165	165
C	82.563	82.563	106.375	106.375
D	122	143	145	160
E	20	20	30	27
F	12	12	13	13
G	3 x 11	3 x 11	3 x 14	3 x 14
H	104.8	104.8	133.4	133.4
J	45	62	62	80
K	M38 x 1.5P	M55 x 1.5P	M55 x 1.5P	M70 x 1.5P
L	20	24	24	24
M (Max.)	-5	-7	-7	-9
M (Min.)	-12	-14	-14	-16

Hydraulic Power Pack & Hydraulic Cylinder



What is a Hydraulic Power Pack?

The hydraulic power pack is a mechanical device that converts the energy of pressurized fluid into mechanical energy.

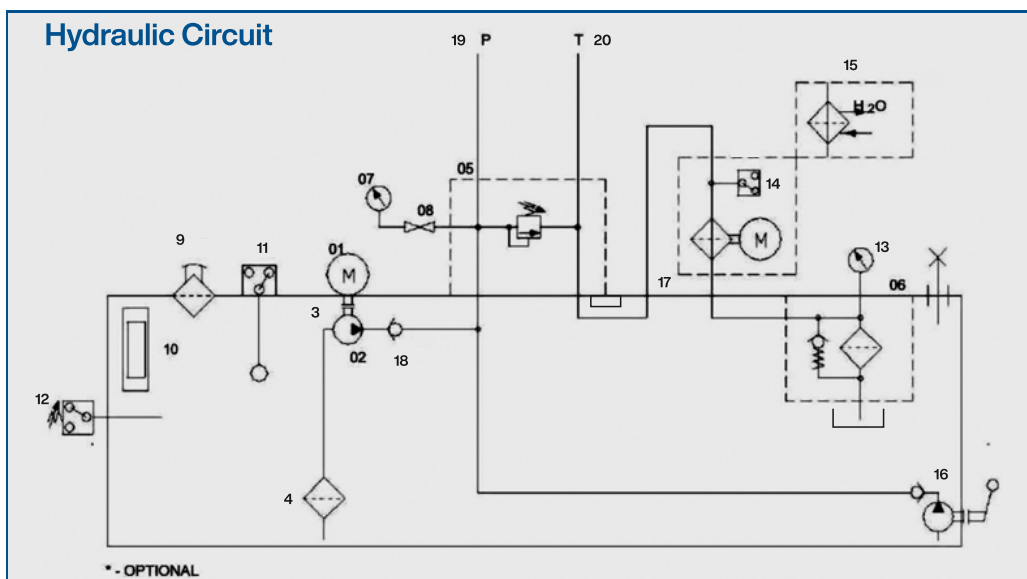
A hydraulic power pack consists of a pump and two cylinders. The pump is used to generate the pressure in the fluid, and the cylinders are used to store and release that pressure. The fluid flows from one cylinder to another, with one cylinder storing pressure and one releasing it.

The advantages of hydraulic power pack are:

They are more efficient than other types of hydraulic machines

They can be used in a wide range of applications because they are compact and powerful and can be scaled to the appropriate size for the job

Sillot Material :



1. Electrical Motor
2. Pump
3. Connecting Flange
4. Suction Filter
5. Pressure Relief Valves
6. Return Line Filter
7. Pressure Gauges
8. Gauge Isolator
9. Air Breather
10. Oil Level Indicator
11. Oil Temperature Sensor
12. Oil Heater with Thermostat
13. Clogging Indicators
14. Pressure Switch
15. Water Heat Exchanger
16. Hand Operated Pump
17. Pump Motor for Return Line
18. Non Return Valve
19. Pressureline outlet
20. Tankline inlet

Hydraulic Cylinder



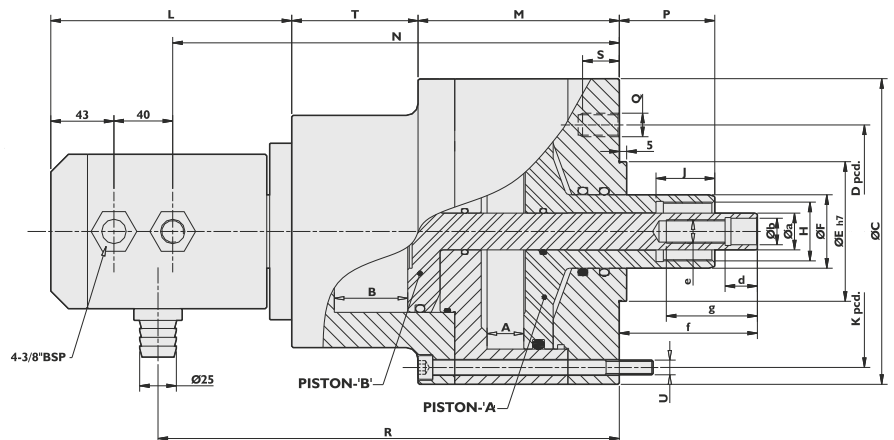
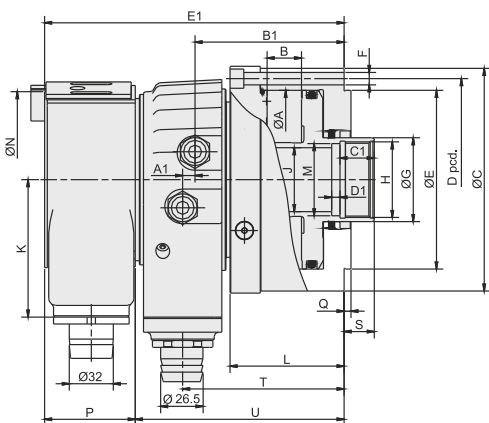
Dual Piston Hydraulic Cylinder



High Speed Hollow Center Hydraulic Cylinder

The Cylinder Body is of Alloy Steel and Distributor is of SG Iron. This is ideal for normal speed. The Cylinder has two Pistons. One Piston is used for clamping the component and second Piston is used in many application like ejecting the component, low pressure clamping, orientation of component etc.

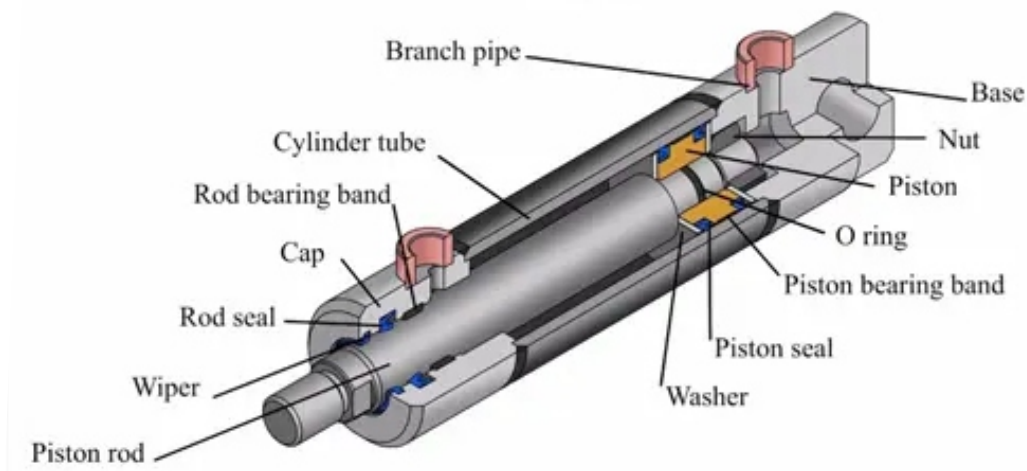
Both Pistons can be operated individually with different hydraulic pressure. The oil supply system in the Distributor housing allows a little oil leak to ensure continuous lubrication.



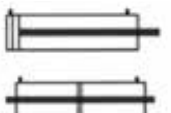
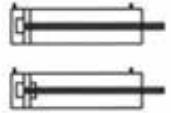
Dimensions

Model	DPHC 105-20/80-20	DPHC 140-20/105-20	DPHC 160-25/110-50	DPHC 175-50/105-60
PISTON DIA A	105	140	160	175
PISTON DIA B	80	105	110	125
A	20	20	25	50
B	20	20	50	60
C	138	185	208	215
D	118	-	145	156
E (h7)	80	105	95	130
F	50	60	50	65
H	M48x2p	M40x2p	M40x1.5p	M54x2p
J	22	50	40	40
K	-	165	185	195
L	136	164	164	164
M	101	130	137	135
N	194	261	304	316
P (Max)	49	35.5	65	93
P (Min)	29	15.5	40	43
Q	6 x M10	-	4x M16	6 x M10
R	216	271	314	326

Hydraulic & Pneumatic Cylinder



Application - Hydraulic Cylinder

Denomination	Application	Symbol
Single-acting cylinder	The fluid pressure is applied in one sense only (forward stroke) Back stroke: by undefined force By means of a spring	
Double-acting cylinder	The fluid pressure is applied alternatively in two direction (forward & back stroke) Single rod Double rod	
Differential cylinder	The ratio between the cylinder section & the ring section of the piston near the rod is essential for the cylinder operation Double rod	
Cylinder with non-adjustable cushion	Acting from one side only Acting from both side	

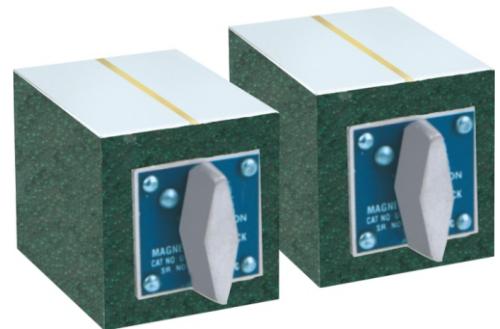
Magnetic "V" Blocks (Soft)

- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squariness and Parallelism within 0.005mm upto 100 mmL & 0.010 mm for 200 mmL of "V" block.
- Uniform and strong magnetic pull to all three magnetic surfaces



Magnetic Rectangular Blocks

- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Parallelism is within 0.010mm.
- Provided with ON-OFF switch except for 25 x 25mm block.



Permanent Magnetic Lifters

- Used for lifting & handling of steel plates, heavy block & castings as well as heavy round or cylindrical parts.
- The 1 : 3.5 or 1:3 time safety factor of the recommended load to the test load ensures use at optimal
- working conditions even with substantial air gaps & surface conditions.
- Compact design, strong magnetic pull, total work safety
- Easy operated lever for ON-OFF.



Hardened & Ground "V" Blocks

- Used for Grinding, Light Milling, Drilling & Inspection of Round & Square Jobs.
- Accuracy for Flatness, Squareness and Parallelism within 0.010mm up to 150W above that 0.020mm up to 200W. Hardness 60±3 Rc.
- Supplied in perfect matched pair.
- Supplied with clamp which can be used from both sides to suit job dimensions.



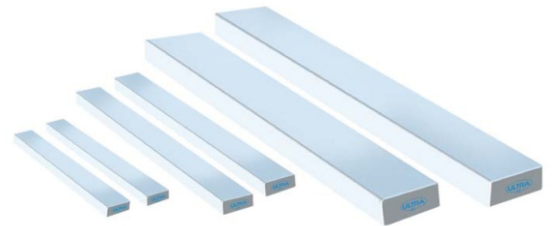
Roller Bearing "V" Blocks

- Used for checking heavy and odd shaped round jobs.
- Perfectly matched pair. Accuracy : Parallelity 12 micron for all series.
- Included angle of rollers is 90°.
- Standard bearings are used which are replaceable.



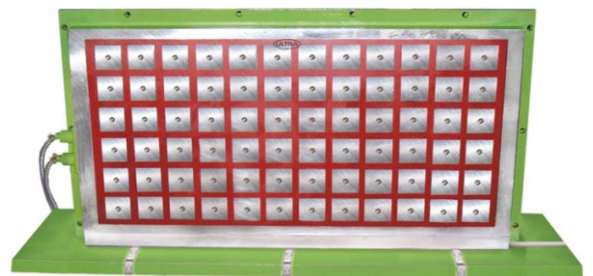
Parallel Blocks

- Used for accurate supporting of jobs Made from special quality alloy steel material.
- Hardness 60 ± 2 Rc.
- Accuracy for Parallelism, flatness is 0.010mm upto 200mm L & 0.025mm upto 450mm L



Electroperm Magnetic Chucks For Horizontal Machining

- EPM CHUCK is designed in such a way that it is very useful for Horizontal Machining Centers.
- It is also useful in conventional machining for Horizontal milling operation.
- As Electro Permanent Magnetic (EPM) Principle is used, Continuous Electricity is not required.



Electroperm Magnetic Chucks For Horizontal Machining

- Work holding device on Cylindrical Grinding m/c to grind outer diameter & face component as bearing recess, flanges, collet bushes, discs etc.
- Can also be used on Lathe machine.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely.
- Magnetic Coil (outer body) remains stationary & middle part (Round body) will rotate with spindle through adaptor sleeve.



Roller Bearing "V" Blocks



- Work holding device for surface grinding machines.
- Each pole is having separate coil, so / hence very strong & even magnetic flux is generated.
- Accuracy as per IS : 8710 - 1978.
- Magnetic pull is 30 - 50% more than IS specification.
- Mag - D - Mag with variable control unit allows to neutralize the residual magnetism precisely, using a microprocessor based control circuitry.
- Chuck is tested for Slipping force, Waterproof test, temperature rise test, Electrical & Demagnetizing tests.
- Also available in Longitudinal Poles.

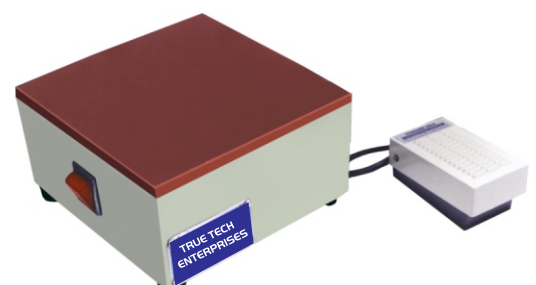
Universal Clamping Magnetic Bases With Fine Adjustment

- Can be locked to any position in 360° by a Central lock.
- Used as a holding device for dial indicator.
- Heavy & rigid construction of base & column.
- Dovetail slot for lever type dial.
- Fine adjustment for accurate setting.
- Base V can be clamped to shaft of Ø20 to Ø120.



Demagnetisers

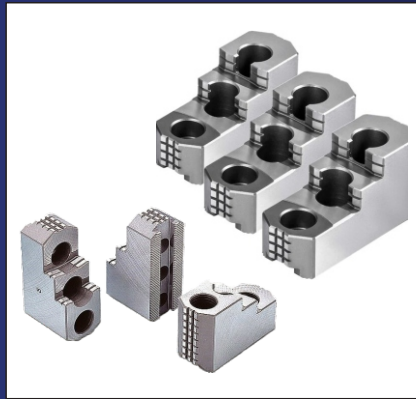
- Used for removing surface residual magnetism.
- Operates on 220V single phase AC supply.
- Suitable for all types of steel such as HSS, Nickel chrome, spring steel, die steel etc.



OUR SPARE GALLERY



SOFT JAW



HARD JAW



BACK PLATE



T NUT



CHUCK CONNECTORS



SLEEVE



TURRET BLOCK



REVOLVING CENTRE



MANUAL CHUCK JAW



CHUCK GREASE



CHUCK GREASE



HYDRAULIC VALVE

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