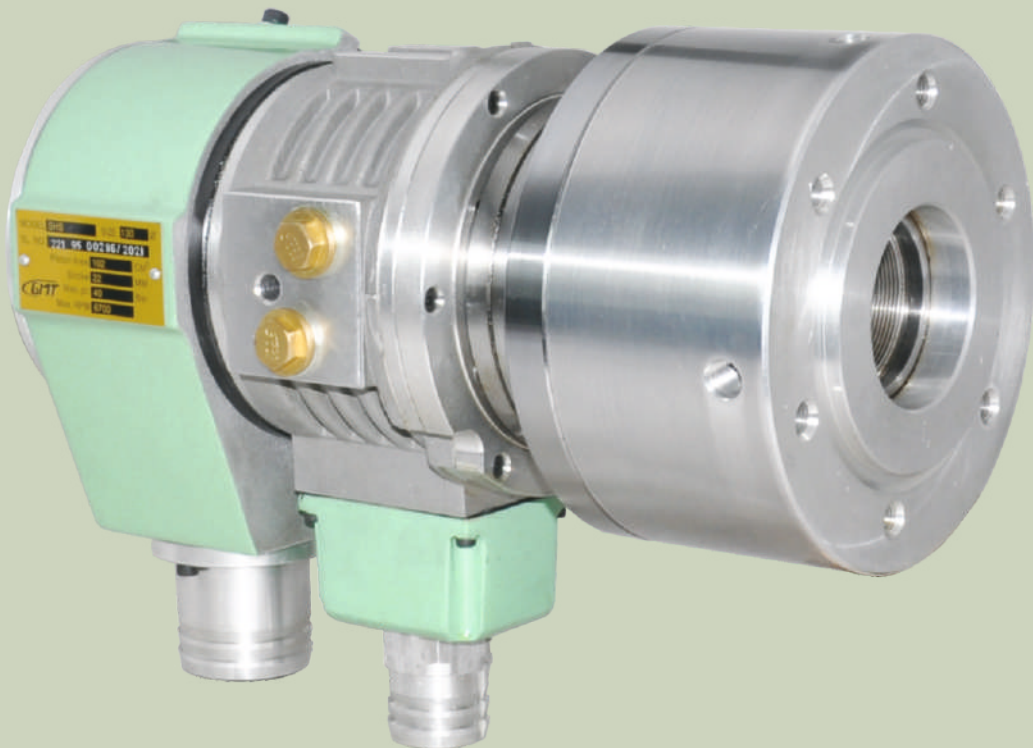




HOLLOW HIGH SPEED HYDRAULIC ROTATING CYLINDERS WITH SAFETY VALVE AND STROKE MONITOR (SHS)

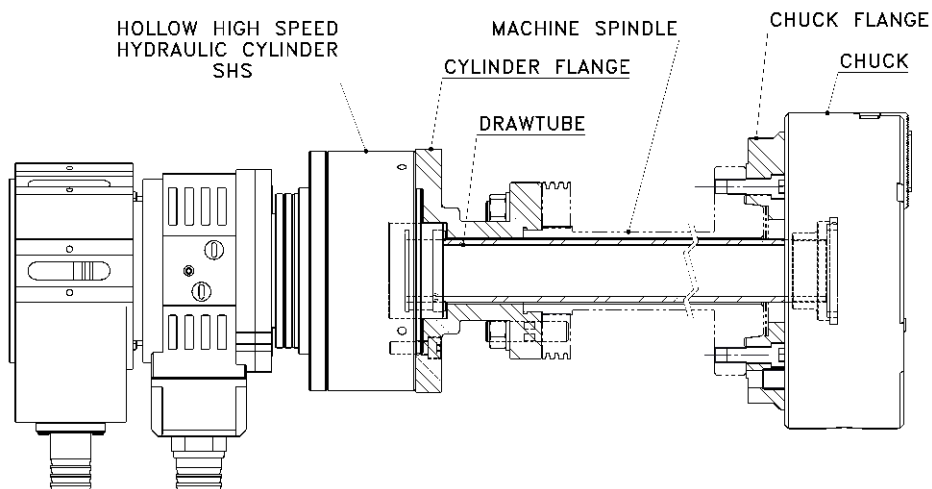
HOLLOW HIGH SPEED HYDRAULIC ROTATING CYLINDERS WITH SAFETY VALVE AND STROKE MONITOR – SHS

The GMT make SHS cylinders are designed for actuating the high speed chucks on CNC lathes. The design of the cylinder is such that the distributor shaft rotates on special ball bearings with controlled lubrication. The special bearings facilitate the cylinder to be started at very high speed.

GMT make SHS cylinders have safety valve which ensures that the chucking pressure is maintained till the spindle rotation stops in case of sudden drop in the hydraulic oil supply because of power failure.

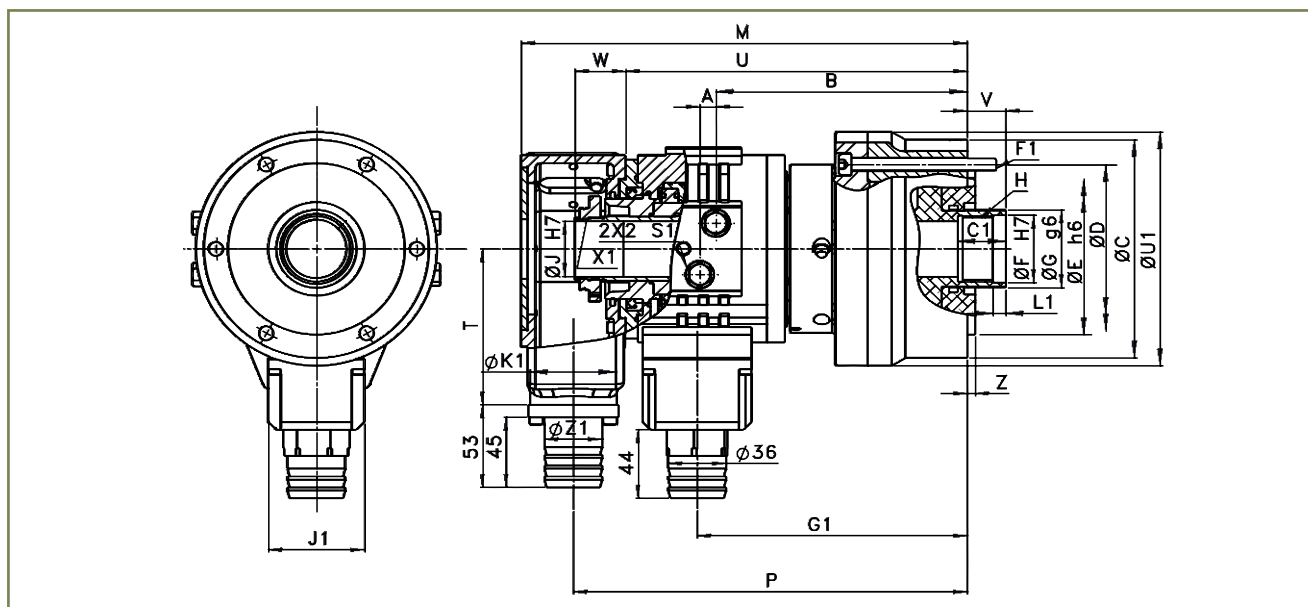
The body of the GMT make SHS cylinder is made from aluminum alloy casting. The piston is made from medium carbon steel which is heat treated, chromium plated and ground.

A coolant cover at the back of the cylinder collects the coolant, when the machine is in operation. The coolant is directed to flow through the hollow piston and expelled through a coolant outlet line by gravity.



MOUNTING ARRANGEMENT OF GMT MAKE PHNC / PHNC-KA CHUCK WITH SHS CYLINDER

105 ØSHS



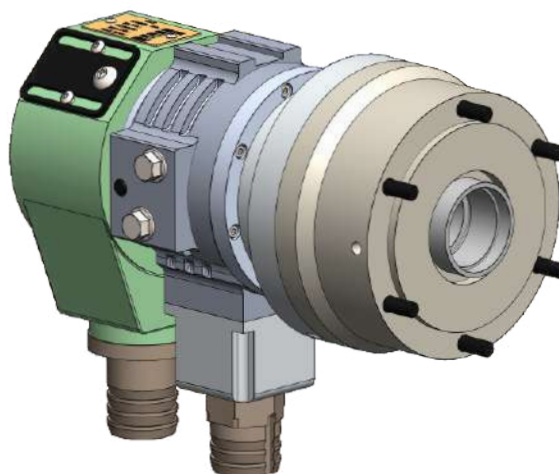
DIMENSIONAL SPECIFICATIONS (mm)

Model / Spec.	221-107
A	10
B	156.3
C	140
C1	30
D PCD	125
E h6	110
F H7	45
F1	6- M8
G g6	50
G1	168
H	M44 x 1.5P
J	37.5
J1	60
K	33
K1	56
L1	8
M	277.5
P	245
S1	PT 3/8"
T	100
U	212.5
U1	150
V Max.	24
V Min.	0
W Max.	55.5
W Min.	31.5
X1	M42 x 1.5P
Z	5
Z1	36

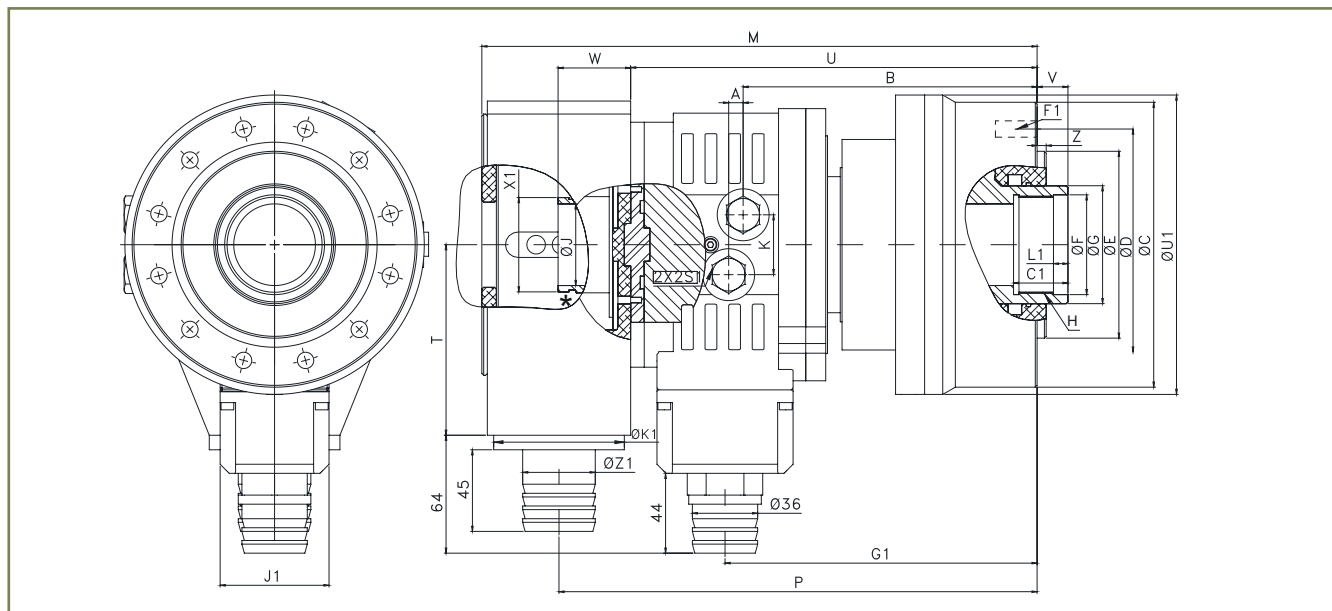
TECHNICAL SPECIFICATIONS

Model / Spec.		221-107
Piston Stroke (mm)		24
Max. Speed r.p.m		8000
Piston Dia. (mm)		105
Oil Leakage Rate lts/min.		3
Max. Pressure kgf/cm ²		40
Piston Area cm ²	Push side	72
	Pull side	67
Max. operating force (kgf)	Push side	2880
	Pull side	2680
Weight (approx) kg		13.3

* Sensing Arrangement for stroke control(optional)



125, 130 & 154 Ø SHS



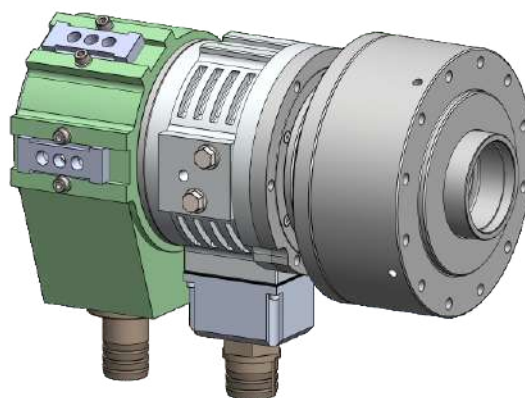
DIMENSIONAL SPECIFICATIONS (mm)

MODEL	221-98	221-95	221-112
SIZE	Ø125	Ø130	Ø154
A	8	10	10
B	162	176.5	159.5
C	157	167	190
C1	30	35	30
D PCD	132	132	170
E h6	103	103	130
F H7	55	55	65
F1	12-M10	6-M10	12-M10
G1	172	188	171.5
H	M54 x 1.5P	M54 x 1.5P	M64X1.5P
J	45	45	52
J1	60	60	60
K	33	33	33
K1	70	70	55
L1	8	8	8
M	306	325	322
P	263.5	280	273
S1	PT 3/8"	PT 3/8"	PT 3/8"
T	105	105	120
U	224	240.5	224
U1	165	167	-
V Max.	17	12	22
V Min.	0	-10	0
W Max.	60	64.5	69
W Min.	43	42.5	47
X1	M52 x 1P	M52 x 1P	M58X1P
Z	5	5	5
Z1	50	32	50

TECHNICAL SPECIFICATION

MODEL		221-98	221-95	221-112
SIZE		Ø125	Ø130	Ø154
Piston Stroke (mm)		17	22	22.5
Max. Speed (RPM)		6700	6700	6200
Piston Dia (mm)		125	130	154
Oil Leakage Rate (lts/min)		3	3	4
Max. Pressure (kgf/cm²)		40	40	40
Piston Area (cm²)	Push side	100	110	158
	Pull side	90	102	142
Max operating force (kgf)	Push side	4000	4400	6320
	Pull side	3600	4080	5680
Weight (approx) kg		16	16	21

* Sensing Arrangement for stroke control(optional)



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