

Ultra High Speed Power Operated Hollow Chuck



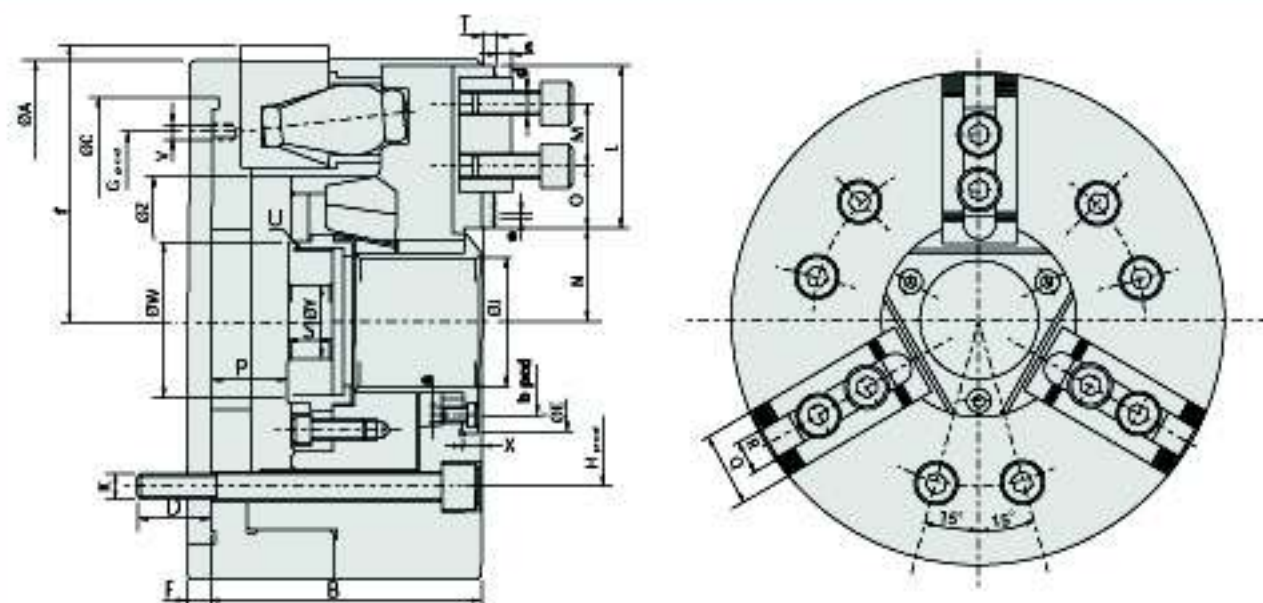
It is well known that, as the working speed is increased, the gripping force of the chuck gets reduced due to the centrifugal force that grips the work piece externally. The working speed may then reach a point when it will no longer be safe to work at that particular speed.

Keeping this factor in mind, AIRTECH has designed WHCB chucks. These chucks have been provided with a centrifugal balancing system that compensates the centrifugal force of the base jaws. This compensating force is produced by reversing the centrifugal force of the counter weight.

Manufactured from high-grade alloy steel, all the sliding surfaces of these chucks are hardened and ground for accurate running and long service. Each base jaw is provided with a lubricating nipple to ensure long and trouble free life.

Since they have been designed for ultra high-speed operations, these chucks are ideal for the latest generation of cutting tools and machines.

Ultra High Speed Power Operated Hollow Chuck



Dimensions

M _{max}	WHCB 165	WHCB 200	WHCB 250	WHCB 315	WHCB 400	WHCB 500
A	169	210	254	315	400	500
B	86	100.5	119	120.5	132	132
C (H6)	140	170	220	220	380	380
D	16	19	21	21	28	28
E (H7)	70.5	82	105	133	190	240
F	5	5	5	6	6	6
G	116	150	190	190	340	340
H	104.78	133.35	171.45	171.45	330.2	330.2
J (H7)	45	52	68	91	126	165
K	3 × M10	6 × M12	6 × M16	6 × M16	3 × M22	3 × M22
L	52.5	65.5	77	93	113	140
M	20	25	30	30	43	60
N (M _{max})	32.5	37.5	51	64	87	110
N (M _{min})	29.75	33.8	46.6	58.7	79	102
O (M _{max})	25	30.5	33	49	55	57
O (M _{min})	8.5	10.5	11	11.5	15	21.5
P (M _{max})	21	29	26	26	22	20
P (M _{min})	9	13	7	3	-6	-8
Q	32	37	40	50	62	60
R (H6)	12	14	16	18	24	25.5
S	15	16.5	30	33	24	25
T	4	6	5	5	3	4
U (M _{max})	M55 × 1.5	M60 × 2	M75 × 2	M100 × 2	M134 × 2	M174 × 3
V	3 × M6	6 × M6	3 × M8	6 × M8	3 × M12	3 × M12
W	60	66	86	108	142	182
X	5	6.5	8	9	11	11
Y	16	30	45	50	60	80
Z	98	117.5	140	170	225	285
a	3 × M5	3 × M6	3 × M6	3 × M6	3 × M8	3 × M8
b	59	70	90	119	155	195.5
c	2.5	3	3	3	6	5
d	6 × M10	6 × M12	6 × M12	6 × M14	6 × M20	6 × M20
e	1/16" ± 90°	1/16" ± 90°	1/16" ± 90°	1/16" ± 90°	1/16" ± 90°	3/32" ± 90°
f	91.5	113	135.5	163	216	271

Specifications

M _{max}		WHCB 165	WHCB 200	WHCB 250	WHCB 315	WHCB 400	WHCB 500
Open center (dia) H7	mm	45	52	68	91	126	165
Jaw stroke (dia)	mm	5.5	7.4	8.8	10.6	16	16
Plunger stroke	mm	12	16	19	23	28	28
Max. pull force	kgf	2039	3161	3874	4996	11000	11000
Max. gripping force	kgf	5200	7953	10095	13154	23500	23500
Max. speed	rpm	6700	5600	4500	3500	3000	2500
Weight without jaws (approx)	kg	14.5	25	36.1	60.4	105	160
Matching hydraulic cylinder - Open center		HOHSA135	HOHSA150	HOHSA175	HOHSA200	HOHSA250	HOHSA250
- Closed center		HCHSA105	HCHSA120	HCHSA160	HCHSA200	HCHSA200	HCHSA250

Note: More versions on request for test job.

The information set out in this catalogue is subject to any changes made prior to publication. Further changes may be made without giving any notice.