



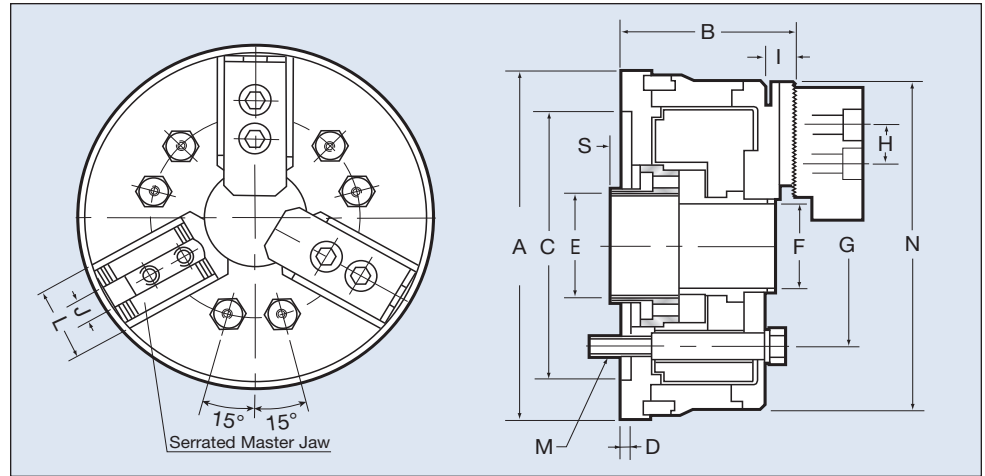
Atlas Workholding 3-Jaw CNC High Speed Diaphragm Chuck

PBA/Atlas patented diaphragm chuck technology has proven to be able to offer the greatest chucking accuracy. ATL300H 3-Jaw CNC Diaphragm Power Chucks perform their clamping movement by material deformation which features high repeatability and low maintenance requirements. Compared to traditional wedge-hook power chucks, ATL300H owns the un-matchable 0.002mm (0.00008") repeatability and longer product life because ATL300H has no clearance, no sliding parts to wear out.

ATL300H is highly sealed and resistant to fluid, dust, cutting chips and powder penetration.

This chuck is designed for high speed and high accuracy turning applications. ATL300H incorporates weights to eliminate the centrifugal force. Dynamic balancing can be easily adjusted by integrated balancing weights. Clamping force remains high and stable when speed is up to 8000 RPM. ATL300H is widely used in high speed lathes or CNC turning centers which require micro level accuracy.

Dimensional Data



- ⊕ Chucking repeatability is within 0.002mm k1 (0.00008")
- ⊕ High speed: up to 8000 RPM.
- ⊕ Anti centrifugal force design: clamping force remains high when high speed machining.
- ⊕ Dynamic balancing weights are integrated for fine balance adjustment.
- ⊕ Highly-sealed chuck body ensures survival under dust, chips or any harsh working environments.
- ⊕ No clearance, no sliding parts to wear out, for long life
- ⊕ No lubrication is needed, low maintenance.
- ⊕ Adjustable clamping force
- ⊕ Suitable for fragile or thin wall parts
- ⊕ High rigidity.
- ⊕ 1.5mm x 60° serrated master jaws design

Chuck Order No.

- ATL305H-00
- ATL306H-00
- ATL308H-00
- ATL310H-00

with Mount:

- ATL305H-A5
- ATL305H-A6
- ATL306H-A5
- ATL306H-A6
- ATL308H-A6
- ATL308H-A8
- ATL310H-A6
- ATL310H-A8

Model No.		ATL305H	ATL306H	ATL308H	ATL310H	
A	mm/in	147/5.79	182/7.17	232/9.13	267/10.51	
B*	mm/in	68/2.66	88/3.46	98/3.86	105/4.13	
C	mm/in	110/4.33	140/5.51	170/6.69	220/8.66	
D	mm/in	4/0.16	5/0.20	5/0.20	5/0.20	
E	(Changeable)	M40 x P1.5	M55 x P2.0	M60 x P2.0	M85 x P2.0	
F	Thru-hole	mm/in	33/1.30	44/1.73	50/1.97	75/2.95
G	mm/in	82.6/3.25	104.8/4.13	133.4/5.25	171.4/6.75	
H	mm/in	14/0.55	20/0.79	25/0.98	30/1.18	
I	mm/in	13/0.51	15.5/0.61	17/0.67	17/0.67	
J	mm/in	10/0.39	12/0.47	14/0.55	16/0.63	
L	mm/in	30/1.18	38/1.50	42/1.65	47/1.85	
M		M10 x 3	M10 x 6	M12 x 6	M16 x 6	
N	mm/in	136/5.35	171/6.73	217/8.54	256/10.08	
	Maximum speed	rpm	7000	6000	5000	4200
	Jaw stroke per jaw cylinder force	mm/kgf	1.1@1400	1.5@1800	1.8@2000	2.2@3800
	Jaw stroke per jaw cylinder force	in/lbf	.04@3080	.06@3960	.07@6160	.09@6360
	Clamping force per jaw@cylinder force	kgf	1420@1400	2140@1800	3203@2800	4590@3800
	Clamping force per jaw@cylinder force	lbf	3124@3080	4708@3960	7047@6160	10098@8360
	Max allowable cylinder force	kgf/lbf	1750/3850	2250/4950	3500/7700	4750/10450
	Installation compatible with		Kitagawa B205	Kitagawa B206	Kitagawa B208	Kitagawa B210
	Weight	kg/lbs	9.5/12	11/24.2	20/44	30.5/67.1

*Dimension B is chuck without spindle adapter mounting plate. Add approximately 1.125" to dimension B. For mounting plate contact factory if exact B dimension is required