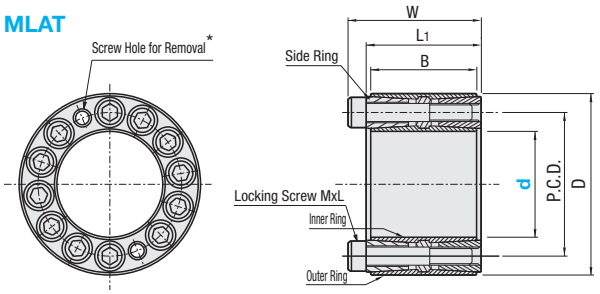
MechaLock
Straight for High Torque

Features: In order to withstand higher load, is made longer in axial direction than conventional Straight Type.

RoHS 10

MLAT



* The thread diameter of the screw hole for removal is the same as those of the lock screw.
Weight of side ring itself may shrink or enlarge the inner or outer rings. When installation, loosen side rings on both sides and insert a shaft into the hub.

Type	Main Body	
	M Material	S Surface Treatment
MLAT	S45C	-

Part Number		D	W	P.C.D.	L_1	B	Locking Screw			Screw Hole for Removal	Mass (g)	Unit Price
Type	d						MxL	Qty.	Tightening Torque (N·m)			
MLAT	30	55	44	42.5	38	35	M6x35	10	15.7	2	490	
	35	60		47.5				12			560	
	40	65		52.5				14			620	
	45	75	58	60	50	45	M8x45	12	37.3		1090	
	50	80		65						3	1170	
	55	85		70						4	1250	
	60	90		75							1340	
	65	95		80				14			1430	

Check MechaLock for allowable load applied

For Calculation Steps, see ☞ P.1489.

d	Max. Allowable Torque (N·m)	Allowable Thrust Load (kN)
30	1110	74
35	1550	88.8
40	2070	103
45	3800	168
50	4220	
55	4640	
60	5060	
65	6400	197

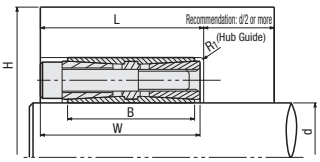
kgf=Nx0.101972

Check Shaft / Hub for Rigidity.

For Design Steps, see ☞ P.1489.

d	Shaft Side Surface Pressure MPa	Side Surface Pressure of Hub MPa	H Hub Minimum O.D. Yield Point Stress of Hub Material (MPa) 206 FC350 SS400 S10C	294 FCD450 S35C	392 FCD600 S55C	Hub Machining Depth L
30	250	136	122	91	80	44
35	257	150	151	106	90	
40	262	161	187	121	101	
45	277	166	229	143	118	59
50	249	156	215	145	122	
55	226	147	207	147	126	
60	208	138	204	151	131	
65	224	153	247	170	144	

kgf/mm²=MPax0.101972



Ordering Example — Part Number: MLAT35

Recommended Tolerance of Shaft and Hub / Roughness of Surface

Mounting Surface	Tolerance	Roughness of Surface
Shaft Outer Dia.	h7(g6)	Ra1.6 or less
Hub I.D.	H7	Ra3.2 or less