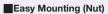
MechaLock

Easy Mounting (Nut) / Thin

Feature: Installation can be completed easily just by tightening one nut.





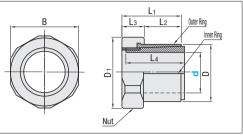
MLN

MLNB (Black Oxide)

MLNP (Electroless Nickel Plating)

Type	Material	Surface Treatment					
MLN		-					
MLNB	S45C	Black Oxide					
MLNP	1	Electroless Nickel Plating					

Nut of MLNP is colored with RED coating material.



Part Number											Max.						Side S	urface			ub Min				Hub			
									Allowable		Allowable Thrust Load		Tightening Torque (N · m)	Macc	Press	ure of	f Yield Point S		Stress of Hub Mate				Machining	U	nit Pri	ce		
		D	В	D ₁	L ₁	L2	Lз	L4		iorque		(kN)		(a)	H	ub	206		294		392		Depth					
Туре	d								(N ·		,		(N · m)	(8)	MPa		FC350, SS400, S10C							MI N	MLNB	MIND		
Туре	u								MLN, MLNP	MLNB	MLN, MLNP	MLNB			MLN, MLNP	MLNB	MLN, MLNP	MLNB	MLN, MLNP	MLNB	MLN, MLNP	MLNB	_	IVILIA	WILITE	WILLIAM		
	8	14	22	23.5	19	11	8	19	29.4	21		5.2	24.5	34	178	128	31	24	24	21	22	19	13					
	10	17			21	12	9	21	34.3	24	6.9	4.8	29.4	43	128	89	33	28	26	23	24	21	14					
11	11	18	24	26	22		10	22	39.2	28		5.1	34.3	46	132	92	38	30	29	25	25	23	14					
	12	20			23	13	10	23	49.0	34	7.3	5.7	44.1	50	122	82	40	32	31	27	28	25	15					
	14	23			26	6 15 .	11	26	88.3	62	12.3 8.9 13.7 10.1	8.9	58.8	80	80 85 106	73	41	34	34	30	31	28	17					
MLN	15	24	30	32.5	27	16] '' [:	27	108	76		10.1	68.6	85		/3	43	36	35	31	32	29	18					
MIL NID	17	26			31	19	12	31	186	130	19.6	15.3	98.1	96	107	74	50	41	40	35	36	33	21					
MLNB	20	29	36	00	33	20		33	245	172		17.2	137	135	135 114	80	52	44	45	39	40	37	22					
MLNP	22	32	30	39	35	22	13	35	275	193		17.6	147	147	90	62	54	46	45	41	41	38	24					
	24	34			37	24	13	37	314	220	25.5	18.3	167	185	83	58		48	47	42	43	40	26					
	25	35	41	44	38	25	1	38	353	247	27.5	19.8	186	187	85.1	60	55	49	48	44	44	41	27					
	28	40	50	54	43	28	15	43	378	265	26.5	18.9	226	320	68.9	48	57	52	51	48	48	45	30					
	30	42	55	60	46	30	16	46	392	274	25.5	18.3	255	398	66.3	46	61	55	54	50	50	48	32					
	35	48	60	66	52	35	17	52	461	323	20.5	18.5	294	521	50	35	64	59	58	55	55	53	37					



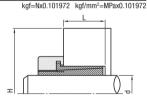


Recommended Tolerance of Shaft and

nub / noughness of Surface									
Shaft 0.D.	h7(g6)	Ra1.6 or less							
Hub I.D.	H7	Ra3.2 or less							

■How to Determine Hub O.D.

After selecting the MechaLock size, hub size and material, confirm that the selected values meet the conditions H≤hub in the Minimum 0.D. Table.



Ring

Features: Because the screw is installed directly on the hub, the inner and outer diameter difference is small and thin. Applicable to installation on a small hub.



MLSL

Screw Hole for Removal*

TYPE	Material	Surface Treatment
MLSL	S45C	-

* Thread diameter of screw hole for removal is the same as that of locking screw.

Body Locking Screw MxL									
	b Minimun		Hub						
Int Si			Machining	Unit					
_	294	392							
0	FCD450 S35C	FCD600 S55C	Depth L1	Price					
	21.5	21.5							
	22.5	22.5	8						
	24.5	24.5							

Part Number							Loc	cking S	Screw				Side	H Hu	b Minimur	n O.D.		
		1								Max.	Allowable		Surface	Yield Point S	tress of Hub N	Material (MPa)	Hub	l
Туре	١.	Ь	D ₁	P.C.D.	т	В		Qty.	Tightening Torque (N · m)			Mass	Pressure	206	294	392	Machining	Unit
	d						MxL			Torque (N · m)	Load (kN)	(g)	of Hub MPa	FC350 SS400 S10C	FCD450 S35C	FCD600 S55C	Depth L1	Price
	5	8	22	15	4					4	2	13	134	21.5	21.5	21.5	8	
	6	9	23	16		10	M3x10	3	2	6	2	15	132	23	22.5	22.5		
	8	11	25	18						9	2	17	123	25	24.5	24.5		
	10	13	29	21	5	12				18	4	28	153	38	29	29	9.5	
	12	15	31	23	9	12				23	4	31	139	39	31	31		
	14	18	36	26	6		M4x18		4	37	5	52	161	56	38	36		
	15	19	37	27		14				39	5	55	149	52	38	37		
MLSL	16	20	38	28						42	5	57	143	52	39	38	11	
IVILOL	17	21	39	29						45	5	59	138	52	39	39		
	19	24	42	32						49	5	71	118	51	42	42		
	20	25	46	36			M5x20	4		97	10	103	198		62	49		
	22	26	47	37	7					110	10	101	196	_*	64	51		
	24	28	49	39		15			8	121	10	106	184		64	52	12	
	25	30	51	41					8	8	124	10	119	169	101	63	53	12
	28	32	53	43							141	10	118	160	96	64	55	
	30	35	56	46						149	10	135	145	89	66	57		



* Unavailable due to excessive Side Surface Pressure

Ra3.2 or less

■How to Determine Hub O.D. After selecting the MechaLock size, hub size and material, confirm that the selected values meet the conditions $H{\le}hub$ in the right-hand Hub Minimum O.D. Table.

Recommended Tolerance of Shaft and Hub / Roughness of Surface Shaft 0.D. h7(g6) Ra1.6 or less

Hub I.D.

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