

Flat Tension Levers

with Hex Socket Head Cap

Flat Tension Levers

RoHS 10

Type	Shape	Lever / Thread		Knob	
		Material	Surface Treatment		
LFTM	Standard	Threaded	1045 Carbon Steel or Equivalent	Black Oxide (Black)	Phenol Resin (Black)
LFTMF	Standard	Tapped	1045 Carbon Steel or Equivalent	Black Oxide (Black)	Phenol Resin (Black)
LFTMA	Offset	Threaded	12L13 Carbon Steel	Black Oxide (Black)	Phenol Resin (Black)

Offset Lever - Threaded
LFTMA

Standard Lever - Threaded
LFTM

Standard Lever - Tapped
LFTMF

Part Number Type	M	L (Threaded Type Only)			Lf	R	H	H ₁	h	A	B	D	d	Number of Serrated Teeth	Fmax. Max. Load (N)	Pmax. Max. Tightening Force (kN)	Reference Mass (g)		
		8	10	12													LFTM	LFTMF	
Threaded	8	30	40	50	18	100	12	16	19	10	25	33	13	22	120	10	185	160	
	LFTM	10	30	40	50	60	21	130	13.5	17.5	22	12	30	41	19	180	16	340	300
	LFTMF	12	30	40	50	60	27	150	17	22	28	14	35	45	23	300	23	350	300
LFTMA	16	40	50	60	27	150	17	22	28	14	35	45	23	36	660	43	580	450	

Part Number Type	M	L			R	H	H ₁	h	S	A	B	D	d	Number of Serrated Teeth	Fmax. Max. Load (N)	Pmax. Max. Tightening Force (kN)	Reference Mass (g)
		8	10	12													
Offset LFTMA	8	32	40	50	100	12.5	16.5	20.5	1.5	8	20	32	13.5	22	120	10	155
	10	32	40	50	63	120	15	19	24.5	10	25	36	16	26	180	16	250
	12	40	50	63	130	16	20.5	26.5	2	12	30	40	19	26	300	23	350
	16	40	50	63	145	20	25	31.5	2	12	32	45	23	36	660	43	520

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Type	R Dimension	Shape	Main Body / Lever		Knob	
			Material	Surface Treatment	Material	Surface Treatment
LFTMR	R Dimension Fixed	Threaded	1045 Carbon Steel or Equivalent	Cathodic Coating (Black)	Phenol Resin (Black)	—
LFTFRS			303 Stainless Steel	—	304 Stainless Steel	Electrolytic Polishing
LFTMRF	R Dimension Configurable	Threaded	1045 Carbon Steel or Equivalent	Cathodic Coating (Black)	Phenol Resin (Black)	—

R Dimension Fixed Threaded
LFTMR

R Dimension Fixed Tapped
LFTFRS

Hex Socket B is created for the Levers production only. It is not a socket used for the Levers installation.

Part Number Type	M	L (Threaded Type Only)			R		Lf	H	H ₁	h	A	B	b	D	d	Number of Serrated Teeth	Fmax. Max. Load (N)	Pmax. Max. Tightening Force (kN)	Reference Mass (g)	
		8	10	12	Fixed	10 mm Increment (LFTMRF Only)													Steel	Stainless Steel
Threaded	8	30	40	50	100	80-120	8	12	16	19	10	25	3	33	13	22	120	10	185	250
	LFTMR	10	30	40	50	60	11	13.5	17.5	22	12	30	5	41	19	26	180	16	340	400
	LFTMRF	12	30	40	50	60	130	100-150	14	17	22	28	14	35	45	23	300	23	350	400
LFTFRS	16	40	50	60	150	120-180	14	17	22	28	14	35	45	23	36	660	43	580	680	

Part Number Example

Part Number - L - R

LFTM 8 - 30

LFTMF 8 - 30 - 110

LFTMRF 8 - 30 - 110

LFTFRS 8

Application Example

Load Direction

Max. Load Fmax.

Max. Tightening Force Pmax.

- To unlock the Clamp, disengage the serrations by pulling up on the lever.
- Turn the unlocked lever to desired position.
- When the lever is released, the return spring automatically engages serrations and locks again.

There's more on the web: misumiusa.com

Tension Levers / Safety Tension Levers / Stationary Handles

Tension Levers

RoHS 10

Tension Lever	Type	Lever		Screw	Knob
		Material	Surface Treatment		
TLDM	Disengaging Tension Lever	1045 Carbon Steel or Equivalent	Black Oxide	1045 Carbon Steel or Equivalent	Phenol Resin
ALDM	Disengaging Tension Lever	1045 Carbon Steel or Equivalent	Black Oxide	1045 Carbon Steel or Equivalent	Phenol Resin

Tension Levers TLDM

Disengaging Tension Levers ALDM

Part Number Type	M	L			S	S1	d	Number of Serrated Teeth	Fmax. Max. Load N	Pmax. Max. Tightening Force kN	Reference Mass (g)
		10	12	16							
TLDM	10	30	40	50	4	9	16	23	300	12	210
	12	30	40	50	60	4	9	16	420	18	215
	16	40	50	60	3	3	22	23	670	33	220

Part Number Example

Part Number - L

TLDM10 - 30

Application Example

Disengaging Tension Levers

Tension Levers P.3198

- The lever is unlocked. Turn the lever to the desired position.
- By pushing down the lever, the serrations are engaged and locked.
- By releasing the lever, the serration are disengaged by spring force and the lever is unlocked.

Stationary Handles

RoHS 10

Handle Type	Type	Handle		Lever	
		Material	Surface Treatment	Material	Surface Treatment
LRGN	Ball Knobs	(Black) Phenol Resin	Matte Chrome Plating (Silver)	12L14 Carbon Steel	Black Oxide (Black)
LRGB	Ball Knobs	(Red) Melamine Resin	Black Oxide (Black)	12L14 Carbon Steel	Black Oxide (Black)
LRGNs	Ball Knobs	(Black) Phenol Resin	—	303 Stainless Steel	—
LRGBs	Ball Knobs	(Red) Melamine Resin	—	303 Stainless Steel	—

Plastic handles/ball knobs are bonded and cannot be removed.

Handle Type

LRGN Steel

LRGB Steel, Black Color

LRGNs Stainless Steel

Ball Knob Type

LBG Steel

LBGB Steel, Black Color

LBGS Stainless Steel

M Pitch x 2 or less (Incomplete Thread Section)

Part Number Type	M (Coarse)	L	Handle Color	L ₃	d	LRGN / LRGB / LRGNs			LBG / LBGB / LBGS			Reference Mass (g)										
						D ₁	H ₁	L ₁	D ₂	H ₂	L ₂											
Handle Type	6	63	R Red	12	8	17	40	20	18	45	25											
		80										62	32									
		100										82	40									
	8	80										B Black	20	10	21	50	25	23	57	53		
		100																			77	65
		125																			102	81
Ball Knobs	10	100	25	12	25	65	30	28	72	97												
		125									97										119	
		160									132										149	
	12	125									30	14	28	85	35	32	93	163				
		160																	128	205		
		200																	168	253		

The knob color for LRGB and LBGB is black only.

Part Number Example

Part Number - L - Knob Color

LBGS6 - 63 - R

LRGB8 - 100 - B

Check out misumiusa.com for the most current pricing and lead time.