

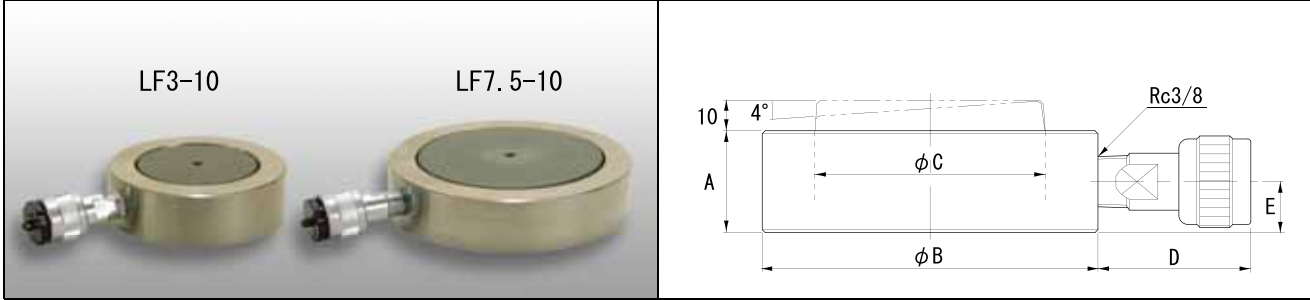
# Super Flat Jack LF series (load return type)

Hydraulic Cylinders

- A super thin jack with a minimum overall length of 34 mm.
  - The piston can be used at an inclination of up to 4 deg.
  - The Super Flat Jack is a single-acting, load return type.
- ▲ The no thread is not included. If the piston protrudes over 10 mm, it will jump out and cause an oil leak.
- ▲ The jack should be used such that the entire cylinder bottom supports the load on a hard flat surface.

**Description of the type**

L F	3	-	1 0
Maximum output			
3: 300 kN			
5: 500 kN			
7.5: 750 kN			
10: 1000 kN			
LF series	Stroke (mm)		



## ■ Specification

		300kN	500kN	750kN	1,000kN
Type		LF3-10	LF5-10	LF7.5-10	LF10-10
Maximum operating pressure	MPa	70	70	70	70
Maximum output	kN	300	500	750	1,000
Effective area	cm <sup>2</sup>	46.56	72.38	109.35	149.57
Stroke	mm	10	10	10	10
Minimum overall length	A	34	34	34	34
Inner diameter of the cylinder	φ	77	96	118	138
Outside diameter of the cylinder	φ B	112	132	154	174
Piston diameter	φ C	77	96	118	138
Coupler ejection length	D	≒53	≒53	≒53	≒53
Coupler position	E	17	17	17	17
Coupler connection diameter	-	Rc3/8	Rc3/8	Rc3/8	Rc3/8
Attached coupler	-	S-1R	S-1R	S-1R	S-1R
Necessary oil level	cm <sup>3</sup>	46	73	110	150
Approximate weight	kg	2.6	4.1	5.5	6.2

# Toe-lift Jack

## ■ TS series

- A single-acting and return-by-spring type.
- The stroke is 125 mm in all models.
- Including a one-touch coupler ROC-13R.

**Description of the type**

T S	0 5	-	1 2 5
Maximum output (claw area)			
0.5: 50 kN			
1: 100 kN			
1.5: 150 kN			
TS series	Stroke (mm)		



		50kN	100kN	150kN
Type		TS05-125	TS1-125	TS1.5-125
Maximum operating pressure	MPa	70	70	70
Maximum output (claw area)	kN	50	100	150
Maximum output (head area)	kN	100	200	300
Effective area	cm <sup>2</sup>	14.52	28.74	44.17
Stroke	mm	125		
Minimum overall length	mm	300	330	333
Base plate dimension	mm	203 × 182 × 24	260 × 225 × 32	293 × 273 × 38
Coupler connection diameter	-	Rc3/8		
Attached coupler	-	ROC-13R		
Necessary oil level	cm <sup>3</sup>	182	360	553
Approximate weight	kg	21.5	41.0	59.0