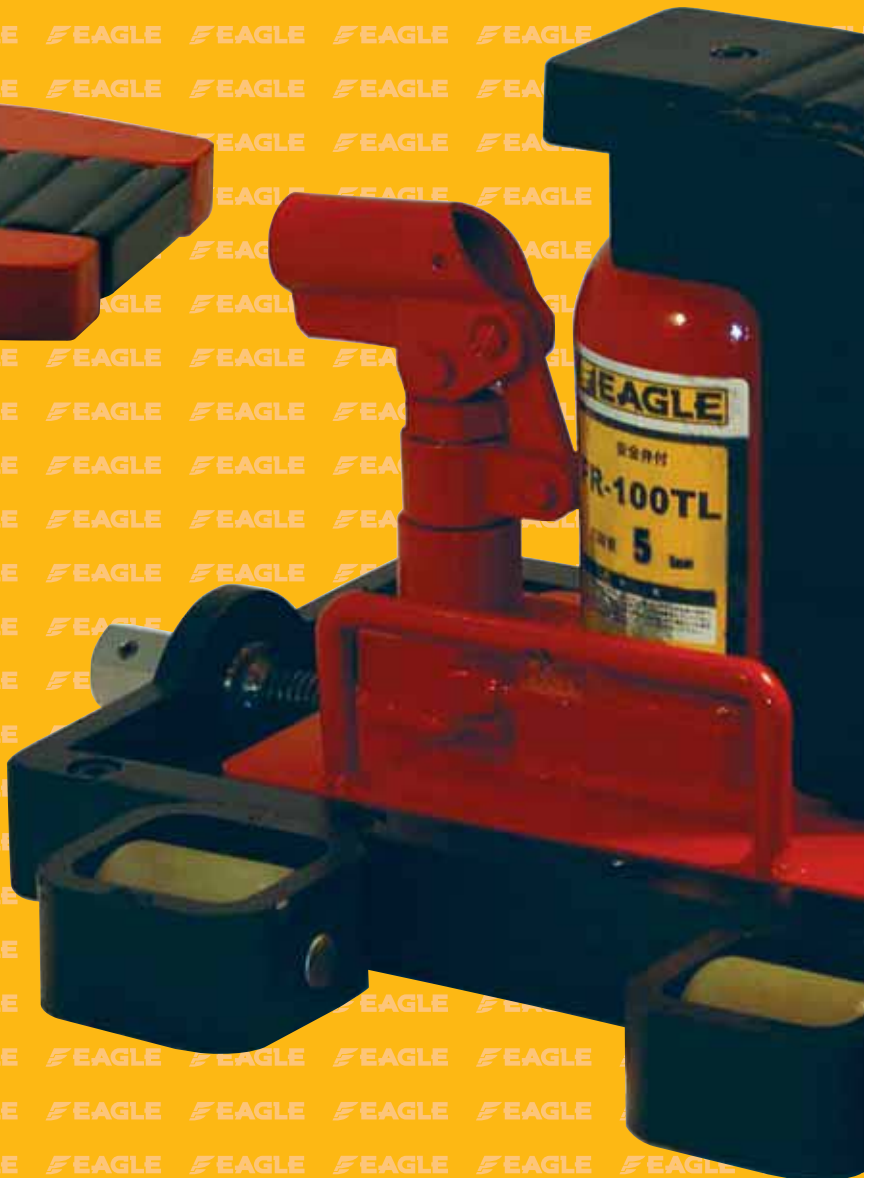




## HYDRAULIC TOE-LIFT JACKS

EAGLE Toe-Lift Jack is the powerful, robust, convenient and safe solution to move and install heavy weight objects.

<http://english.eagle-jack.jp/>



### ▶ Convenient and powerful

- With EAGLE Toe-Lift Jack, only a slight clearance from the ground or floor is enough to lift up and move heavy objects such as machines and architectural structures etc.

- Micro-adjustable for delicate work such as installation of precision machines with hydraulic actuation.

- As EAGLE Toe-Lift Jack operates with its head or toe, lifting work can be performed in a great variety of sites and situations.

### ▶ Tough and safety design

- EAGLE Toe-Lift Jack ensures its superb durability by tough design with hard chrome plated cylinder, wear-resistant ram bearings, solid dovetail groove joining, and more.

- In the EAGLE Toe-Lift Jack, the toe is firmly fixed on the mainframe using a dovetail groove.

- Equipped with a special release screw, EAGLE Toe-Lift Jack lowers a load smoothly from the top to the bottom position at a controlled descending speed.

#### EAGLE Toe-Lift Jack is best suited for :

- ◆ Lifting and positioning of machinery
- ◆ Transport of heavy cargoes
- ◆ Construction work
- ◆ Maintenance work inside plant
- ◆ Rescue operations

**MADE IN JAPAN**

# K-S series

## Remote Toe-Lift Jack & Hand Pump Set

● K1-150S  
Toe capacity : 5 ton

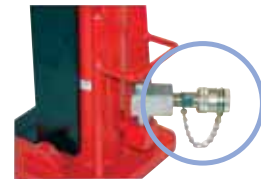


● K2-150S  
Toe capacity : 10 ton



Model		K1-150S	K2-150S	K3-125S	K5-150S
Toe capacity	ton	5	10	15	25
Head capacity	ton	10	20	30	50
Minimum toe height	mm	22	28	32	38
Stroke	mm	150	150	125	154
Minimum headheight	mm	343	349	329	363
Base width	mm	180	224	272	353
Base length	mm	200	257	290	320
Toe width	mm	75	100	125	150
Toe length	mm	60	60	60	70
Product weight	kg	24	44	57	97
Cylinder effect aerea	cm <sup>2</sup>	14,52	33,18	44,17	71,63
Oil required	cc	218	498	553	1,104
AKB-08S		○	○	○	
AKB-08S-2V		○			
K-18S					○
K-18S-2V			○	○	

A swiveling coupler permits K-S series jack to operate in small space.



## Short Cylinder Jack

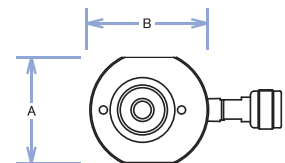
● CJ2-50  
capacity : 20 ton



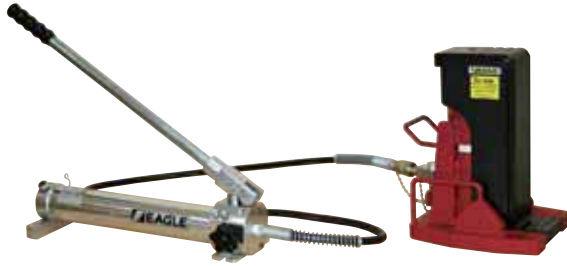
● CJ3-50  
capacity : 30 ton



Model		CJ2-50	CJ3-50
Capacity	ton	20	30
Stroke	mm	50	50
Minimum height	mm	95	95
Base width (A)	mm	78	98
Base length (B)	mm	88	105
Product weight	kg	3,5	5,0



## One point lifting



- Jack + Pump + Hose

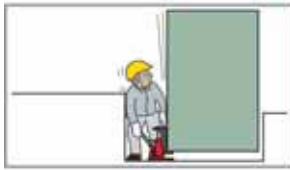
## Two point lifting



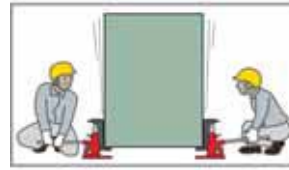
- Jack + Pump + Hose × 2

- For safety and effective operation, 『Remote Toe-Lift Jack K-S series』 is operated with an external hydraulic pump.
- When lifting with the toe, the operating pressure should be set at 35MPa.
- A return spring is incorporated to realize fast plunger retraction.

EAGLE's Remote Toe-Lift Jack + Hand Pump enable its operator to operate the jack-up from outside the pit and therefore, it is much safer and easier.

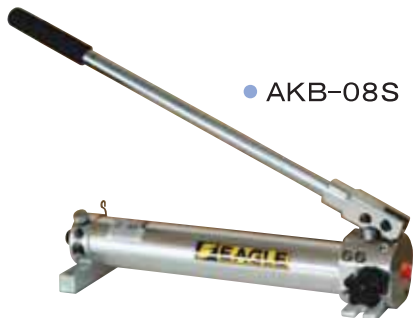


EAGLE's Remote Toe-Lift Jacks + Hand Pump enable one operator to operate the two jacks set in two separate positions in the total synchronization.



## Hand Pump

### Two-Speed Heavy-Duty Hand Pump [ Single Action ]



• AKB-08S



• K-18S-2V

Model			AKB-08S	AKB-08S-2V	K-18S	K-18S-2V
Pressure rating	1 stage	MPa	1.4	1.4	2.5	2.5
	2 stage	MPa	70	70	70	70
Usable oil capacity		cc	800	800	1,800	1,800
Oil volume per stroke	1 stage	cc	12.9	12.9	16.3	16.3
	2 stage	cc	2.0	2.0	2.5	2.5
Oil port thread		Rc	3/8	3/8	3/8	3/8
Product length with handle		mm	640	818	680	860
Product weight		kg	6	8	14	17

### High Pressure Hose



- HC1-2 Length : 2 meter

Model	HC1-2	HC1-3	HC1-5	
Length	m	2	3	5

No overload with safety valve & Easier operation with swivel pump lever

# G series

# Toe-Lift Jack



● G-60  
Toe capacity : 3 ton



● G-100  
Toe capacity : 5 ton

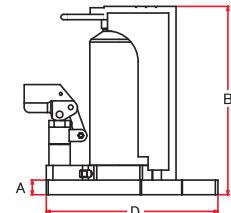
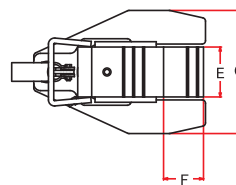


● G-160  
Toe capacity : 8 ton



● G-200  
Toe capacity : 10 ton

Model		G-60	G-100	G-160	G-200
Toe capacity	ton	3	5	8	10
Head capacity	ton	6	10	16	20
Minimum toe height (A)	mm	19	22	25	28
Stroke	mm	115	130	136	140
Minimum headheight (B)	mm	233	288	297	333
Base width (C)	mm	155	183	200	230
Base length (D)	mm	236	262	285	300
Toe width (E)	mm	65	75	90	100
Toe length (F)	mm	50	55	55	60
Product weight	kg	13	21	28	380



The swivel pump lever gives Eagle Toe-Lift Jack increased flexibility to answer diverse operating conditions and installation requirements.



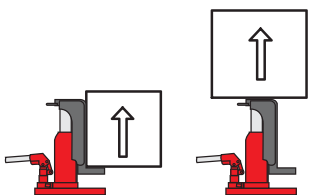
### About safety valve

- The safety valve is not equipped to avoid the distortion of toe & base but for the purpose of protecting the Jack itself.
- The pressure of the safety valve is set depending on the head capacity.

## Main usage : 3 patterns

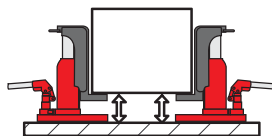
### ① Lifting

The most standard usage. toe & head can be used.



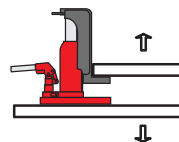
### ② Setting location

Powerful and compact usage. Convenient to install & level machinery at limited working space.



### ③ Expanding

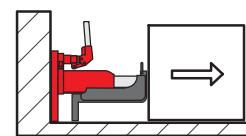
Usage to expand a distance between two objects. Good to use for expanding gap between steel frames.



### ④ Pushing

You can push an object toward to one side when using the jack on the side ways, receiving the power of the repulsion from the wall etc.

※Support model : G-40(L),G-60(L),G-100(L)



No overload with safety valve & Easier operation with swivel pump lever

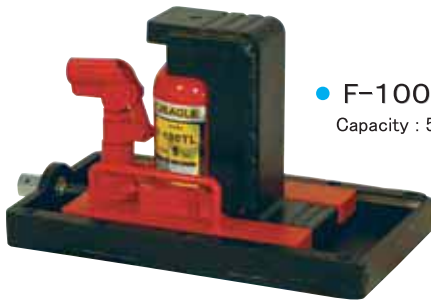
## Slide table type

## Toe-Lift Jack With A Slide Table

- Fitted on a slide table to lift up and move 100mm horizontally a heavy load by the manipulation of a ratchet handle.
- Most suitable for the assembling and positioning of printing machines and other heavyweight precision machinery.

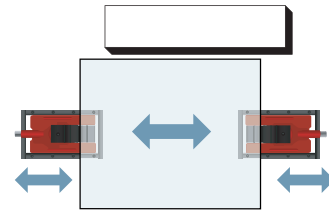


## F-series



● F-100TL  
Capacity : 5 ton

The example of use

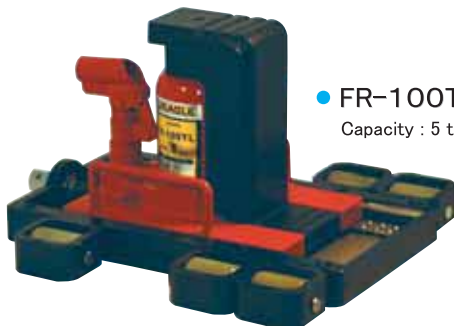


- Convenient for fine adjustment for cross direction of heavy machinery.  
Easy to operate by the ratchet handle.  
(Standard accessory)  
※ Required q'ty for operation: More than 2units (See the example on the right)
- Safety valve mechanism for overload protection  
Convenient swivel socket any direction to operate easily.
- Also available for clean room application

Model		F-60TL	F-100TL	F-200TL
Toe capacity	ton	3	5	10
Head capacity	ton	Not possible to use		
Minimum toe height	mm	41	44	51
Jack stroke	mm	62	63	52
Minimum headheight	mm	202	243	268
Slide Base width	mm	195	223	270
Slide Base length	mm	422	443	476
Slide stroke	mm	100	100	100
Toe width	mm	65	75	100
Toe length	mm	80	75	80
Product weight	kg	25	32	50
Attached		Ratchet handle × 1 / Jack lever × 1		
Note		Order-received production		

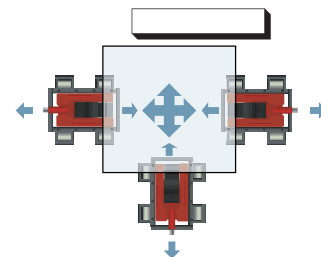
## FR-series

## Slide Table With A Roller



● FR-100TL  
Capacity : 5 ton

The example of use



- Heavy Loads can be moved easily and safely by the operation of the ratchet handle.  
(Standard accessory)
- With urethane rollers ,movement for both horizontal & cross direction is possible.  
(See the example on the right)
- Safety valve mechanism for overload protection  
Convenient swivel socket with any direction to operate easily
- Also available for clean room application

Model		FR-60TL	FR-100TL
Toe capacity	ton	3	5
Head capacity	ton	Not possible to use	
Minimum toe height	mm	50	53
Jack stroke	mm	62	63
Minimum headheight	mm	211	252
Slide Base width	mm	345	373
Slide Base length	mm	422	443
Slide stroke	mm	100	100
Toe width	mm	65	75
Toe length	mm	80	75
Product weight	kg	28	39
Attached		Ratchet handle × 1 / Jack lever × 1	
Note		Order-received production	

For making space and shifting forward

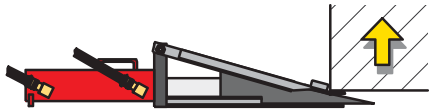
# Power Wedge

● KP-15  
Capacity : 15 ton



## LIFTING UP !

- By taking advantage of using a little space 6 mm, you can lift the heavy equipment up to 34 mm for making necessary space for jacking up.



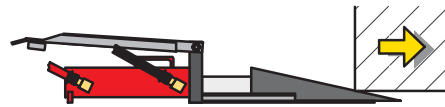
《 For lifting work 》

The plate should be put on the unit, as shown in the picture above.

Model	KP-15	KP-35
Jack unit	KPS-15 × 1	KPS-35 × 1
Capacity	15 ton	30 ton
The minimum height	6 mm	6 mm
The maximum height	34 mm	34 mm
The gross weight (SET)	30 kg	35 kg
Attached can case for KP-15 and KP-35	C-KP × 1	

## SHIFTING FORWARD !

- By using Power wedge, it prevents the floor from wounding and enables you to shift forward more effectively.
- The accurate adjustment can be done owing to the double acting cylinder.



《 For pushing forward 》

The plate should be leaped up.

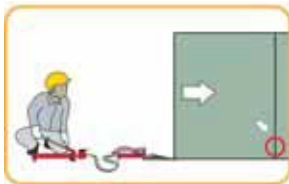
High pressure hose for KP-15 and KP-35	HC1-2 × 2
The length	2 meter
Double acting manual pump for KP-15 and KP-35	KB-07W × 1
The maximum pressure	70 MPa
Effective oil quantity	350 cc

<< Before >>



Fine adjustment work by a bar tends to cause some damage on the floor. It is also difficult to achieve precise positioning on a right spot.

<< After >>



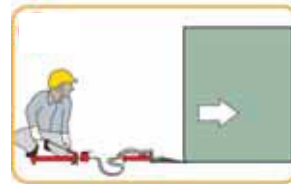
EAGLE's Power Wedge can do the job without any damage on the floor, while it can adjust the position on a millimeter basis.

<< Before >>



Fine adjustment work by a bar tends to cause counterforce, which could throw its operator away and hurt it.

<< After >>



EAGLE's Power Wedge ensures operational safety because its operator can do the fine adjustment by only controlling its external pump.

# Bottle Jack "DHARMA"

## ED series

- This is the portable hydraulic jack with the safety valve for the rotating lever.
- The socket of the operating position can revolve as you like. You can operate the pump, even if there are some obstacle behind, you can easily dodge them.



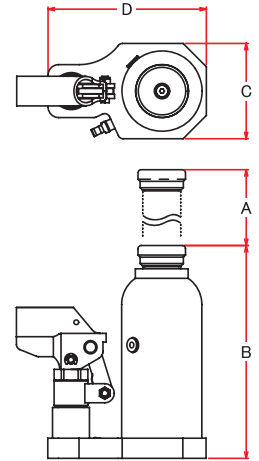
● ED-60  
Capacity : 6 ton



● ED-100  
Capacity : 10 ton



● ED-200  
Capacity : 20 ton



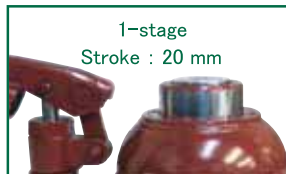
Model		ED-25	ED-40	ED-60	ED-100	ED-160	ED-200
Capacity	ton	2.5	4	6	10	16	20
Stroke	(A) mm	100	110	115	130	136	147
Minimum height	(B) mm	183	201	201	252	258	288
Base width	(C) mm	70	74	90	100	110	130
Base length	(D) mm	133	144	150	164	176	190
Product weight	kg	3.5	4.1	5.4	8.0	11.5	15.3

## 2-Stage Jack

Minimum height : 95 mm



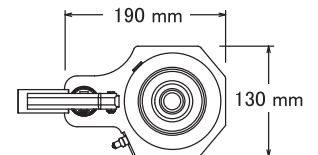
● ED-100TST  
Capacity : 10 ton    Stroke : 50 mm



1-stage  
Stroke : 20 mm



2-stage  
Stroke : 30 mm



## 3-Stage Jack

Minimum height : 130 mm



● ED-30TS-3  
Capacity : 3 ton    Stroke : 144 mm



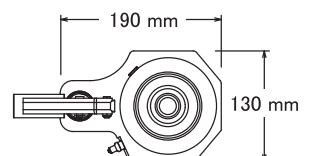
1-stage  
Stroke : 38 mm



2-stage  
Stroke : 59 mm



3-stage  
Stroke : 47 mm



## As for clean room type

- It is suitable for the clean room of the semiconductor as well as precision machinery factory.
- The nickel-plated has been done to prevent the painting rust from being dropped.
- Allmost all of "Eagle"Brand products can be arranged for the clean room usage.
- The Clean room Model is indicated as "Model No.+ C"



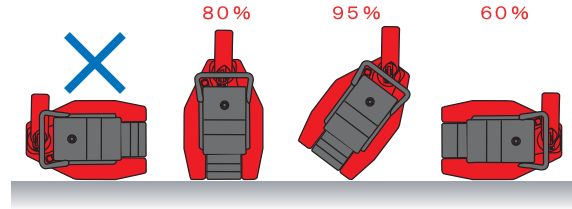
● G-60LC



● ED-60C

## As for the usage by the side -ways

- The following products can be used by the side-ways.
  - "TOE-Jack" & "DHARMA"
- The maximum-load weight is the same with that when being used as standard position while the stroke will depend on according to the angle when being used.



TOE-Jack	G-60	G-100	
DHARMA	ED-40	ED-60	ED-100

For transportation of heavy object

## Eagle Roller

### UW series



● UW-3E

- This is the most popular type. Hight durability,urethane wheel is adopted.

Model		UW-3E	UW-5E	UW-8E
Capacity	ton	3	5	8
Frame height	mm	95.5	125	145
Product weight	kg	17	31.5	42

### UWD series



● UWD-3E

- By Rolling the shaft with ratchet handle,the wheel moves.

Model		UWD-3E	UWD-5E	UWD-8E
Capacity	ton	3	5	8
Frame height	mm	84.5	105	129
Product weight	kg	9.5	19.5	34.5

### UWR series



● UWR-3E

- You can adjust a circle angle up to 45degree.

Model		UWR-3E	UWR-5E	UWR-8E
Capacity	ton	3	5	8
Frame height	mm	112	138.5	162.6
Product weight	kg	21	37	58

### UWA series



● UWA-3E

- The alumi-frame is adopted.

Model		UWA-3E	UWA-5E	UWA-8E
Capacity	ton	3	5	8
Frame height	mm	79	99	121
Product weight	kg	7	12.8	22



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