

# EAGLE

Made in JAPAN  
lifts your business!

## PRODUCTS CATALOGUE

### Japan's Share No.1

EAGLE currently shares 70% of Japan's Toe Jack market.

### Made in Japan

Most reliable and user-friendly designed and made in Japan

### Only EAGLE

Field KAIZEN spirit driven design unique functions

### Safe

EAGLE ensures to keep your operation safe and efficient

### Smart

EAGLE is designed to cause NO damage to your clients' properties.

### Speedy

EAGLE eliminates waste of time and ensures highest efficiency at work.

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<https://toe-jack.com/>  
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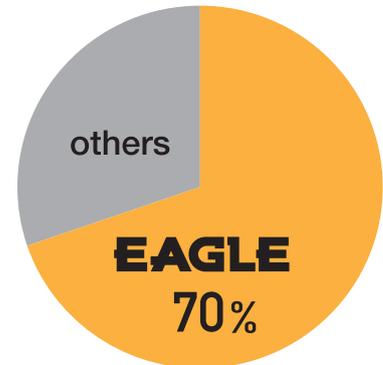
EAGLE Japan's best sold toe jack, makes your impossible work become possible. Rapidly growing Asian factories demand speed, smartness and safety in the heavy machinery moving and transportation service as Japanese factories demands them. EAGLE met them all and now ready to serve you!

# EAGLE's Achievement

## Heaviest Use In Japan Now Ready In Asia

Japanese customers' demand for heavy items transportation is world's toughest and they even specify tools and equipment to be used for their orders. In such a tough market, more than 350,000 EAGLE products have been sold achieving Japan's No.1 market share (70%). EAGLE is now the best partner for moving and transportation industry in Japan.

The above figures are as of 2021.



## EAGLE's customers

Asahi Kasei Corp.  
Canon Inc.  
Carim Engineering Corporation  
Daihatsu Motor Co.,Ltd.  
DAINIPPON SCREEN MFG.CO.,LTD.  
East Japan Railway Company  
FANUC CORPORATION  
FUJITSU LIMITED  
Honda Motor Co.,Ltd.  
IHI Corporation  
IWASE TRANSPORTATION CO., LTD.  
KINTETSU WORLD EXPRESS  
DELIVERRY CO. LTD  
K LINE (THAILAND) LTD.

KOKUYO Co.,Ltd.  
Komatsu Ltd.  
Murata Machinery,Ltd  
NIPPON EXPRESS  
Okuma Corporation  
SAN-EI CO., LTD.  
SANKYU INC  
SUMITOMO NACCO MATERIALS  
HANDLING CO.,Ltd  
Tokyo Electron Kyushu Limited  
TOSHIBA MACHINE CO.,LTD.  
ULVAC,Inc.  
West Japan Railway Company  
Yamazaki Mazak Corporatio

## EAGLE, the Originator of Toe Jacks

The very first Toe Jack was brought to the market by EAGLE in 1976. Before the Toe Jack, only jacks available were portable hydraulic jacks, but they had not been able to meet the field workers demand for a jack to fit in a small gap at low positions. EAGLE took up the demand and successfully developed its first Toe Jack. Since then, EAGLE has been releasing its new family products such as Toe Jacks with Slide Table and Power Wedge, etc. to swiftly respond and shape new field demand for improvement and new functions of its Toe Jacks.

# What is EAGLE's "Toe Jack"?

The special combination between a conventional hydraulic jack and a toe structural part made an EAGLE Toe Jack. It is intended to lift its load from significantly lower positions than before. As long as there is a gap of 20mm or so, Toe Jacks can lift the load than before.

Since the toe structural part has two lifting points, its toe and head points, it can be used for much wider applications than before.

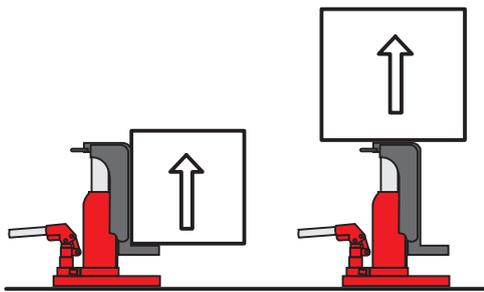
Conventional jack



EAGLE toe jack

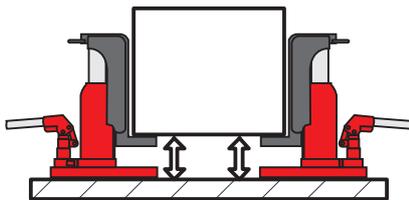


## EAGLE Toe Jacks' Four Basic Functions



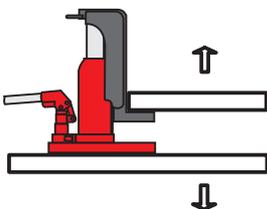
### 1 Lifting

It is a very basic function of it. Since both its toe and head can lift its load, its usage is twice than before.



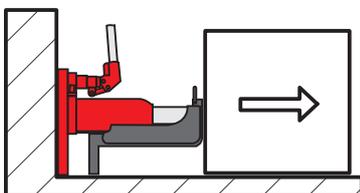
### 2 Adjustment of positioning

EAGLE can do position adjustment as fine as an millimeter order. It is best suited for delicate works like machines' level matching.



### 3 Widening

By placing its base on one side, and its toe on the other side, the Toe Jacks can widen the gap between two objects.



### 4 Lateral pressing

In case of setting a machine, you may sometimes want to slide it a little bit. EAGLE's Toe Jacks can be laid down to slide the machine by using the counterforce from the wall.

# Highest Reliability

EAGLE places three priorities in its technological investment, ① robustness and durability, ② user oriented product design, and ③ high quality material and solid manufacturing technology. More than 40 years of experiences and lessons learned in responding Japanese customers' highest demand in heavy machinery movement field are reflected in EAGLE's products line.

## ① Robustness and Durability

EAGLE has been pursuing robustness and durability in its products in order to satisfy the customers' need for moving and placing high value added large scale precision machinery. Its R&D effort for robustness and durability bear fruits of its own technology such as high tension steel based integral structure and safety valve mechanism for robustness, and high durability internal structure of hydraulic cylinder.

EAGLE's R&D organization has been achieving high performance goals through its design using its most advanced 3-D CAD and structural analytical system as well as its actual products test using its originally developed repetitive durability test machine.

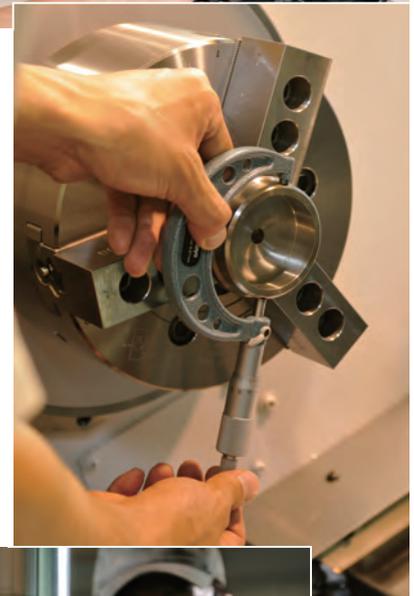
## ② User Oriented Product Design

EAGLE's products development always goes with its users. Its sales staff visit customers' operational sites, directly listen to local users voices and reflect them in its products improvements. This user oriented product design posture is no exception for the design of accessories, which generally tend to be low priority area for product improvement. For example, EAGLE improved the lever handle of its jack products for higher stiffness to satisfy users' need for easy handling and work efficiency.

## ③ High Quality Material and Solid Manufacturing Technology

For its main part that requires full strength, EAGLE adopts Japan's renowned highest quality steel material. And then, its proficient manufacturing staff with high skill attains highest quality in their parts processing and welding assembly by skillful operations of robots and NC machines.

By making most use of Japan's "Mono Tsukuri" (high quality product manufacturing) concept that consists of manufacturing technology, craftsmen's skill and quality control system, EAGLE is providing products with highest running cost performance and reliability.



# Demanded Functions

EAGLE listens to new demand in the fields and develops new functions to be added to EAGLE's products family.

## Remote Toe Jacks that enable safe operations

These jacks are optimized for the use in a small and confined space where regular toe jack operation is difficult. Since it can be remotely operated, higher safety is ensured. There are several types of specification depending on operational conditions, and therefore, customers are required to purchase jack's main body and its Hand Pumps separately.

## Toe Jacks with Slide Table that enable forward/backward position adjustment

These Toe Jacks are optimized for movement of a large system like a printing system that connects multiple units. Since these jacks enable strict placement adjustment at a jack-up position, they greatly improve work efficiency. One family product of this type enables forward/backward adjustment while another family product with roller attached to it enables both forward/backward and left/right adjustment at your discretion. Depending on your usage, mostly optimized product can be chosen.

## Power Wedge that greatly improves efficiency of pushing work and lifting work

Power Wedge can slide a heavy item up to the wall. Power Wedge can lift equipment directly placed on the floor up to a height where Toe Jack can be operated. Unlike using a bar, Power Wedge should not cause any damage on the floor, and ensures safe and swift work.

### Push work

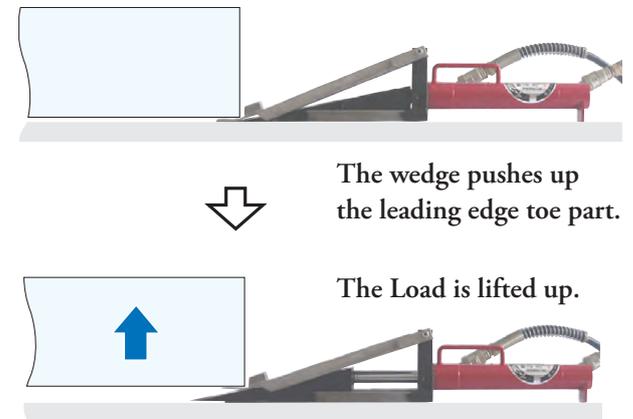
The cover plate should be removed during its operation



Unlike a pushing work using a bar, it enables smart sliding work without causing any damage on the floor. Since this Power Wedge operation does not require counterforce receiver, total work efficiency is greatly improved.

### Lift work

The cover plate is placed over the toe. The leading edge toe part of the cover plate is inserted in a narrow gap.



This Power Wedge can find a gap as low as 6mm and then lift up the load from there up to as high as 34mm, where a regular jack-up operation can be done.

Its double acting cylinders enable fine adjustment during a lowering operation and therefore, it ensures operational safety.

## EAGLE's approach to highest work safety

### Remote Toe Jack + Hand Pump

How safe are you in jacking a machine that is positioned unstably?

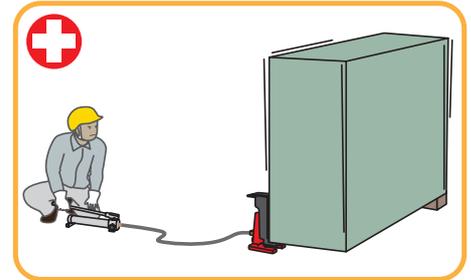
Before

Conventional jacks require their operators to do jack-up operations right beside the machines to be jacked. If the machines are positioned unstably, there is a risk that they might fall down during jack-up operation.



After

EAGLE's Remote Toe Jack + Hand Pump enable its operator to remotely operate the jack-up from safe place. For a lowering operation, an operator can directly grab control valve and therefore, it can ensure to lower the load slowly and safely.



How safe are you in jacking in a small and confined space?

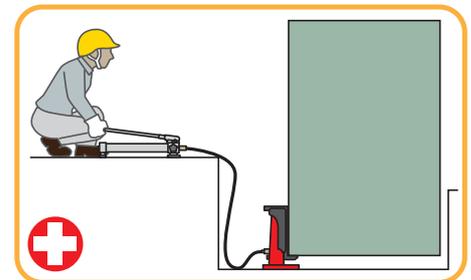
Before

In case of a conventional jack-up operation in a small and confined space, there are a lot of safety risks because it is quite difficult for its operator to escape from the spot.



After

EAGLE's Remote Toe 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 approach to highest work safety

### Power Wedge

How safe are you in doing fine adjustment of a machine placement position?

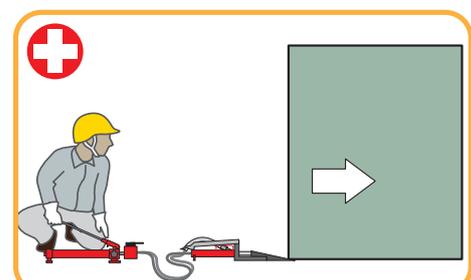
Before

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.



## EAGLE's approach to highest work quality

### Power Wedge

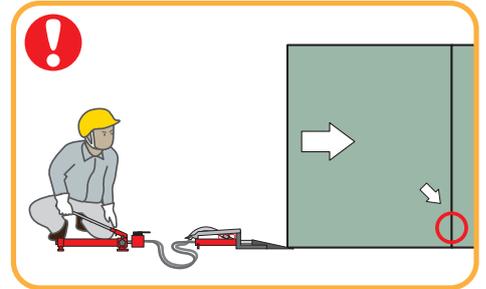
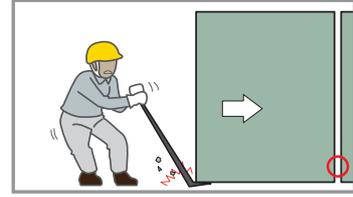
How smart are you in doing fine adjustment of a machine placement position?

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.



## EAGLE's approach to highest work quality

### Toe Jack with Slide Table

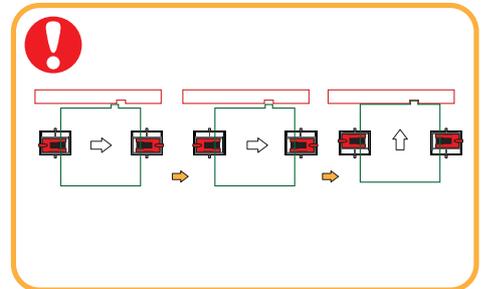
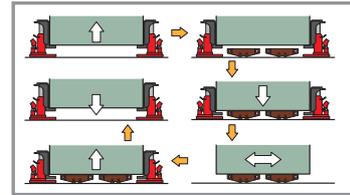
How smart are you in doing machine assembly (integration of multiple units)?

Before

Conventional machine assembly work by jacks and rollers requires multiple jack-up and jack-down operations for all the units to reach final position for assembly. It has high risk of damaging machines and the floor. It is also time consuming.

After

EAGLE's Toe Jack with Slide Table can do the job extremely simply and accurately. It is friendly to machines and the floor, and does not take much time.



## EAGLE's approach to highest work quality

### Remote Toe Jacks + Hand Pump

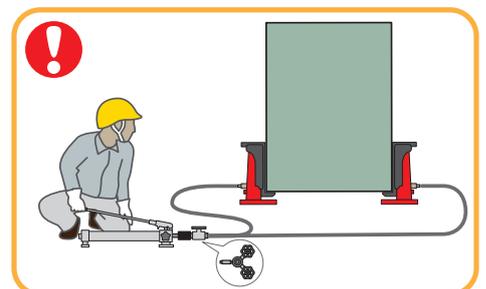
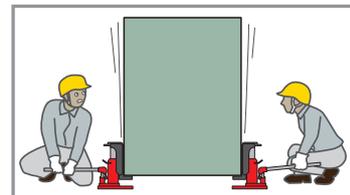
How smart are you in jacking the load in two separate points simultaneously?

Before

With conventional jacks, two operators have to try to manually synchronize individual jack handling.

After

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



# Products Catalogue

## Toe Jacks

These are our Toe Jacks' standard G-series models, which are used by our customers most.

- They are equipped with a safety valve to prevent overload, enhancing work safety.
- The toe structural part from its head down to toe is cast from a mold without welding or bending process. Besides, it is made of high tension steel, which materializes great strength and durability.
- By making their toes' corners R shaped, it is reducing the risk of deformation or break by stress concentration.
- Their insertion sockets can rotate so that their operators can handle pumping at the best positions.
- They adopt "Two Rods Locked Type Handle with Grip", which is very easy to use.
- G-60&G-100 can be laid down for use.



G-60



G-100



G-200

	G-60	G-100	G-200
Toe capacity (ton)	3	5	10
Head capacity (ton)	6	10	20
Minimum toe height (mm)	19	22	28
Stroke (mm)	115	130	140
Minimum head height (mm)	230	288	333
Base width (mm)	155	183	230
Base length (mm)	236	262	300
Toe width (mm)	65	75	100
Toe length (mm)	50	55	60
Product weight (kg)	13	21	38

# Products Catalogue

## Hand Pumps

These are hand pumps to drive EAGLE's various Remote Toe-Lift Jacks and Short Cylinder Jacks.

- They are optimized for Remote Toe Jacks and for Super Low Floor Cylinder Jack.
- They have a double cylinder discharge mechanism (automatic switching between high pressure and low pressure) so that their jack strokes widths are widened when their pressures are low or none to shorten their work time.
- Our 2V series Double Pumps enable a synchronized operation of two jacks by equipping its branch with the automatic adjustment valve.
- These Hand Pumps can be used for other suppliers' jacks.



APS05-70



APS1-70



Hand Pump connected with a  
Cylinder Jack and High Pressure Hose



	APS05-70	APS05-70-2V	APS1-70	APS1-70-2V
Pressure rating 1 stage (MPa)	2	2	2	2
Pressure rating 2 stage (MPa)	70	70	70	70
Usable oil capacity (cc)	500	500	1000	1000
Oil volume per stroke 1 stage (cc)	12.9	12.9	12.9	12.9
Oil volume per stroke 2 stage (cc)	1	1	1.65	1.65
Product length with handle (mm)	512	690	619	797
Product weight (kg)	5	7	6	8

# Products Catalogue

## Remote Toe Jacks

"KS-series" products are remotely controllable and highly maneuverable. They embodied the 3"S" approaches and they are the flag ship of EAGLE's Jacks.

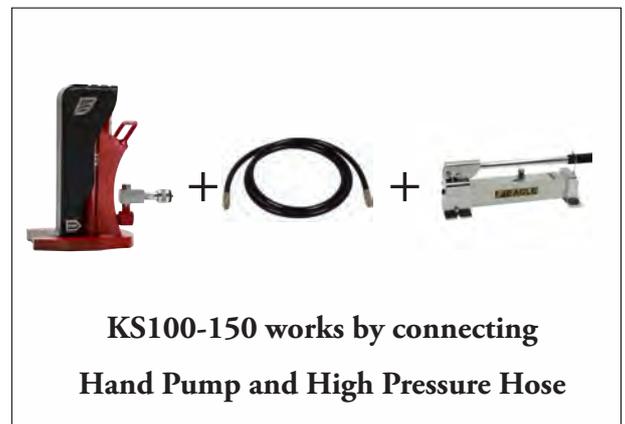
- These hydraulic jacks are connected with an external pump and a high pressure hose.
- Since their operators can operate them remotely, jack-up tasks in a small space or in a place where the foothold of a machine is unstable can be safely completed.
- They can be operated with a small number of pumping.
- They can be laid on their side, tilted or placed upside down for their operations.
- Two jacks can be synchronized and controlled by one pump
- There are two lifting points: head and the toe



KS100-150



KS150-150



Maximum pressure is 60MPa, therefore hand pump (APS series) is adjusted to 60MPa before dispatching

	KS50-150	KS100-150	KS150-150	KS250-150
Toe capacity (ton)	5	10	15	25
Head capacity (ton)	9	18	26	43
Minimum toe height (mm)	22	28	38	38
Stroke (mm)	150	150	150	150
Minimum head height (mm)	323	363	395	365
Base length (mm)	210	250	300	322
Base width (mm)	180	230	245	353
Toe width (mm)	75	100	100	150
Toe length (mm)	55	60	70	70
Product weight (kg)	22	41	62	88
Oil required (cc)	239	453	663	1104

# Products Catalogue

## Short Cylinder Jack

Uniquely designed to match the heights of the EAGLE machinery skates.

- This model is optimized to change directions of EAGLE machinery skates during their heavy load carriage task or to lift machinery for maintenance and placement of it.
- This is a remote operation type short cylinder jack, which is operated by a hand pump connected to it.
- There are 2 types of short cylinder: two stages extensions (CTS type) and one stage extension (CJ type)



CTS50-70( 2 stages extension)



CJ2-50 ( 1 stage extension)



SDL-30F / CTS50-25



SDL-20F/SDL-30F

CTS50-25

CTS50-25 used with machinery skate SDL-30F



APS05-70

CTS100-25

CTS100-25 connected with Hand Pump by Hose

	CTS50-70	CTS100-70	CTS50-25	CTS100-25	CJ2-50	CJ3-50
Capacity (ton)	5	10	5	10	20	30
Stroke (mm)	70	70	25	25	50	50
Body height (mm)	84	90	42	51	95	95
Base length (mm)	62	86	82.5	100	88	105
Product weight (kg)	1.7	3.6	1.3	2.4	3.5	5
Oil required	80	153	29	55	152	233

# Products Catalogue

## Remote Cylinder Jacks

**"JS-series" products are remotely controllable and highly maneuverable. They embodied the 3"S" approaches and they are the flag ship of EAGLE's Jacks.**

- These hydraulic jacks are connected with an external pump and a high pressure hose.
- Since their operators can operate them remotely, jack-up tasks in a small space or in a place where the foothold of a machine is unstable can be safely completed.
- They can be operated with a small number of pumping.
- They can be laid on their side, tilted or placed upside down for their operations.
- Two jacks can be synchronized and controlled by one pump



JS100-150



JS300-150



	JS100-150	JS200-150	JS300-150	JS500-150
Capacity (ton)	10	20	30	50
Stroke(mm)	150	150	150	150
Minimum head height (mm)	319	360	385	356
Cylinder height (mm)	281	312	331	300
Head dimension (mm)	80× 80	95× 95	110×110	120× 120
Base dimension (mm)	100× 100	130× 130	160× 160	180× 180
Product weight (kg)	7.5	16	25	38
Oil required (cc)	239	453	663	1104

# Products Catalogue

## Machinery Skate

**Machinery Skate enables smooth carriage and transportation of heavy items.**

- They adopt urethane wheels, which have excellent durability and prevent any damage on the floor.
- Machinery skates adopts urethane wheels of the same type and have the same product height regardless of different capacities.
- This same wheel design can save purchasing cost of consumable urethane wheels.
- High anti-abrasion rubber made turnable table : perfectly fit with the lifting heavy load
- Effective work thank to low height roller (low floor types are just 55mm)



SD-50F



SDL-30F



Tilt design( incline up to 4°)



Low height roller - just 55mm

Model	Capacity	Height	Size(W)	Size(L)	Wheel No.	Wheel Diameter	Weight
SD-25F	2.5 ton	120 mm	128 mm	400 mm	2 pcs	Φ85	11 kg
SD-50F	5 ton	120 mm	238 mm	400 mm	4 pcs	Φ85	19 kg
SD-100F	10 ton	120 mm	360 mm	455 mm	8 pcs	Φ85	30 kg
SDL-20F	2 ton	55 mm	145 mm	339 mm	4 pcs	Φ46	4.5 kg
SDL-30F	3 ton	55 mm	212 mm	339 mm	6 pcs	Φ46	6.5 kg

# Products Catalogue

## Power Wedge

This cool model enables both sliding heavy load laterally and widening a slight gap for toe-lift jack.

- This is a hydraulic tool to greatly enhance work efficiency to move heavy items.
- It can handle both lateral pushing and lifting.

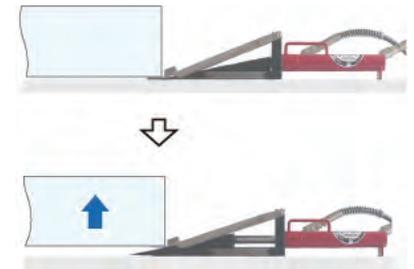
### Pushing work

Unlike using a bar, Power Wedge does not cause any damage on the floor. Since it does not need to manage counterforce, pushing works are greatly efficient.



### Lifting work

Power Wedge can work with a gap as small as 6mm, and lift and widen it up to 34mm in which a Toe-Jack's toe can be inserted. This product has double cylinders and therefore, it enables fine adjustment during its lowering operation and it is so safe.



KP-35



Parts List

Jack unit	KP-15	KP-35
Capacity (ton)	15	30
Minimum height (mm)	6	6
Maximum height (mm)	34	34
Gross weight (kg)	30	35

# Products Catalogue

## Toe Jacks with Slide Table

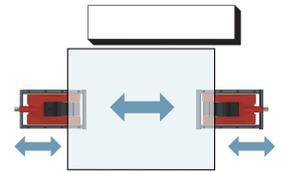
They enable forward/backward position adjustment while keeping heavy load in a jacked position.

- EAGLE's Toe Jacks are assembled individually to a slide table consisting of ball bearings.
- They enable fine position adjustment of forward/backward and up/down within the range of 100mm.
- Slide Table is integrated with the jack through its ant ditch guide causing no left/right slight shifting.
- The same specification as the G-series is applied to these jacks.



F-100TL

for example



## Slide Table with Roller

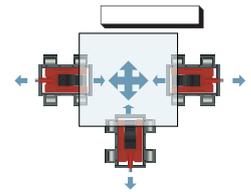
This model enables you to handle fine position adjustment in any of the three directions.

- This model consists of an F-series jack and wheels that are made of urethane, enabling fine position adjustment in three directions, forward/backward, left/right and up/down while keeping the load in a jacked position.



FR-100TL

for example



	F-100TL	F-200TL	FR-100TL
Toe capacity (ton)	5	10	5
Minimum toe height (mm)	44	51	53
Jack stroke (mm)	63	52	63
Minimum head height (mm)	243	268	252
Slide table width (mm)	226	270	373
Slide table length (mm)	413	451	443
(forward/backward) Slide stroke (mm)	100	100	100
Toe width (mm)	75	100	75
Toe length (mm)	75	80	75
Product weight (kg)	32	50	39
Attached	Ratchet handle×1 / Jack lever×1		

# Products Catalogue

## Lifting Jack

Lifting Jack enables vertical lifting or lowering heavy items from an access of only 9.5mm

- From the limited insertion space, Lifting Jack can lift maximum 15 ton of heavy machinery up to 67.5mm
- Lifting Jack is excellent tool for aligning, balancing, or positioning fixed equipment
- Thanks to the light weight of 10 kg, it is easy to carry out and get the job done safely, with improved productivity



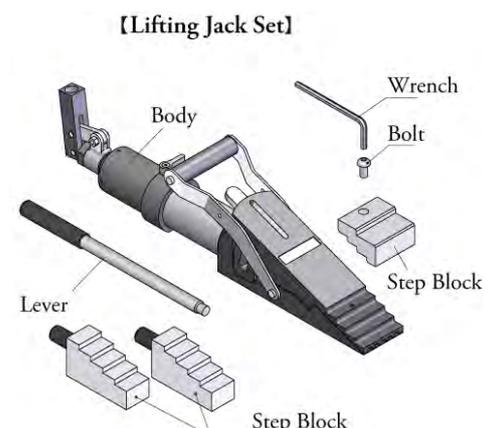
Lifting Jack (LJ-150)

**2 Safety Blocks included**

**Step Block eliminates stroke's waste**

**Exclusive case makes it easier to manage accessories**

Model	LJ-150
Capacity (ton)	15
Minimum height (mm)	9.5
Maximum stroke (mm)	58
Body Length (mm)	536
Gross weight (kg)	10



# Products Catalogue

## MM Block

MM Block enables holding heavy load when lifting up safely and smoothly.

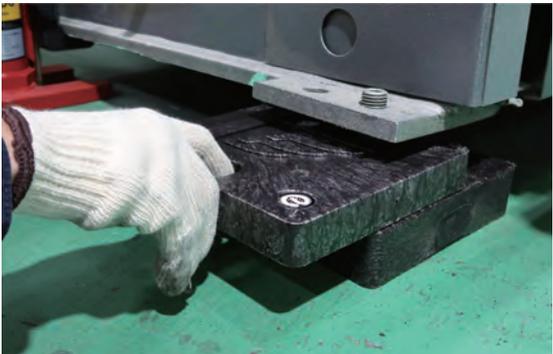
- MM Block is lighter and easier to handle than conventional wooden or aluminum boards
- MM Block is made of plastic which is resistant to rust or corrosion so it is more durable and lasts a long time
- It can be stacked according to the workpiece's height.
- Each Block has a hole which make more convenient to carry
- Environment-friendly product (No. 20118001) certified by Japan Environment Association (JEA)



MM Block MM200-30



MM Block MM200-45

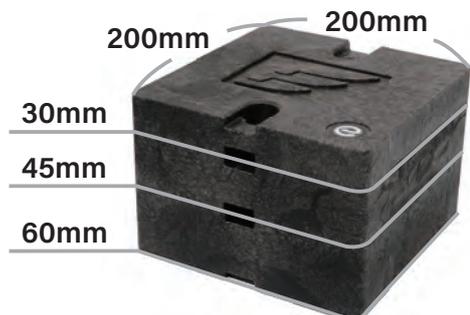


Three types of block: 30 mm, 45mm and 60 mm which can easily fit the work's height



Each block has small hole that make it easier to handle and carry out

Model	MM200-30	MM200-45	MM200-60
Capacity	20 ton	20 ton	20 ton
Height	30 mm	45 mm	60 mm
Width	200 mm	200 mm	200 mm
Length	200 mm	200 mm	200 mm
Weight	1kg	1.5 kg	2 kg



# EAGLE

Made in JAPAN  
lifts your business!



# Machinery Skate



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