ELEPHANT

LEVER HOIST TORCON PAT. P.

With Overload Protector

INTRODUCING YⅢ SERIES

SAFETY ENGINEERING ADVANCES ARE
USED EXTENSIVELY IN THE YⅢ SERIES.

CE

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A STATE-OF-THE-ART LE
THE INDUSTRY'

THE MOST IMPORTANT ASPECT IS SAFETY.

Safety measures are a vital concern in many different fields including transportation of heavy loads and construction sites. Today, one of the most important requirements of machine operation is a safe work environment.

Safety has been the guiding philosophy behind Elephant's product development. Based on our knowledge and experience, we have recently released a new line of chain lever hoists with overload protectors: the Torque Controller Y Ⅲ Series.

The YⅢ series incorporates an ideal safety mechanism which counters an excessive force applied to the lever's handle. It prevents damages to the chain and hooks of the hoist body, as well as to wires and clips used in the operation.

Lever hoists without overload protection can have their hooks extended or chains broken by such activities as attaching a pipe to the lever's handle or applying the weight of two or more operators.

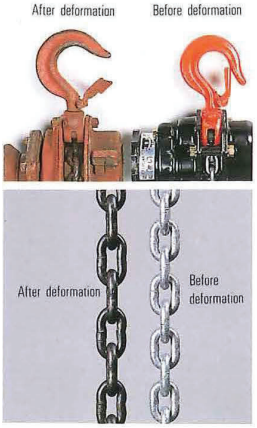
The YⅢ series is provided with a torque controller mechanism which prevents parts from being deformed by excessive force applied to the lever handle. It is actuated slowly so that it does not apply load to the other parts. (At the same time the brake functions without fail.) In other words, the Y-Ⅲ series hoists are designed so that it is impossible to apply a load exceeding the set rated load in any way.

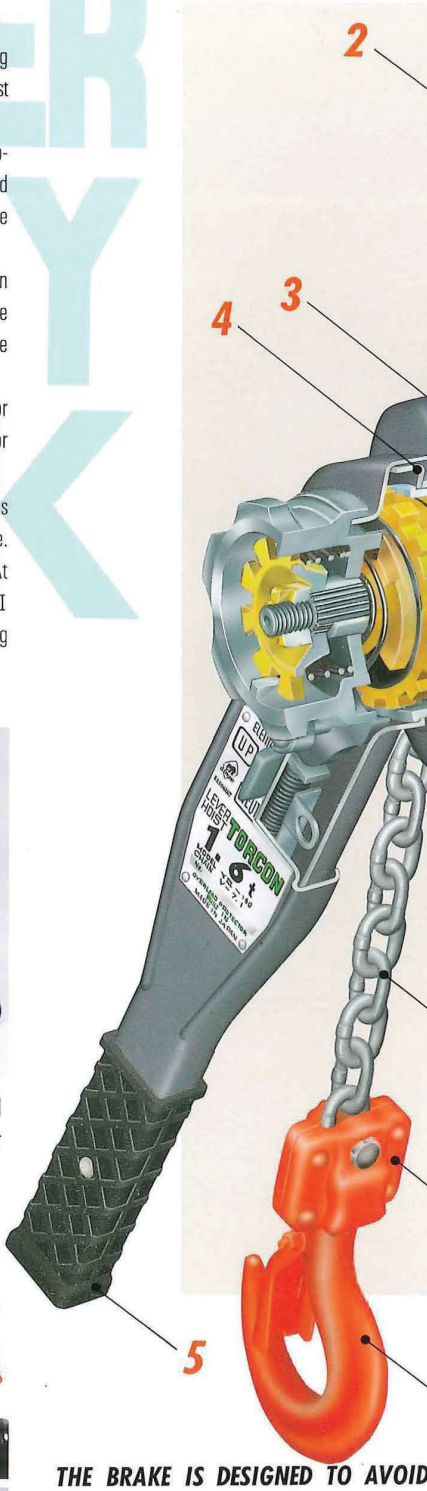

An example of an overload experiment

This mechanism ensures that the hoist will be operated safely and remain in good condition for a long time. It not only offers great safety benefits but also has major economic advantages.

Elephant's Torque Controller Y Ⅲ Series lever hoists put safety first.


Results of the above experiment





THE BRAKE IS DESIGNED TO AVOID
A SOLID DESIGN WITH SPECIAL RU

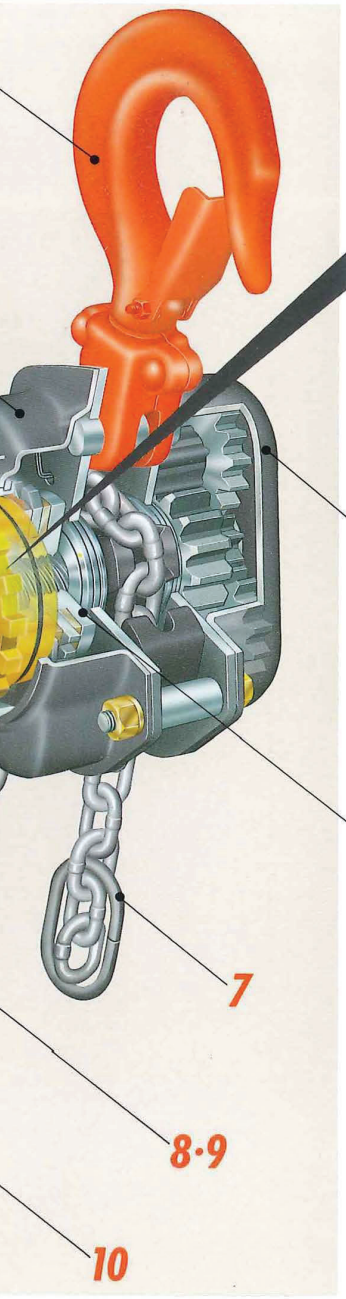
■Tough black body.

A special, electrodeposited coating on the body
The body is securely held with 4 strong bolts,

■CE marks indicates reliability.

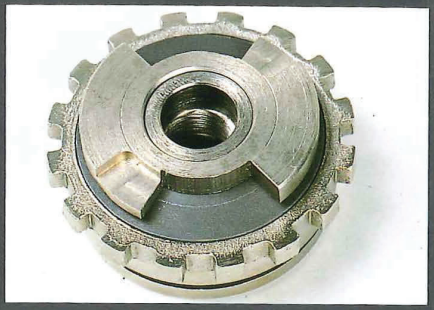
All the products shown in this sheet have the

VER THAT SETS THE PACE OF
S SAFETY-CONSCIOUS TRENDS



1 THE PIVOT OF SAFETY FUNCTIONS : THE TORQUE CONTROLLER MECHANISM

Elephant's safety policy pivots around a torque controller incorporated in the feed gear. The torque controller mechanism prevents the chain and hooks from being damaged by an excessive force applied to the handle of the lever. It also protects other parts from being damaged and does not interfere with the original ease of operation.



2. Hooks are safe even when accidentally overloaded.
The uniquely shaped, heat-treated alloy steel hooks withstand tough jobs. The safety latch, the strongest in the industry, ensures safe clamping.

3. Shock-resistant gear cover and brake cover.
An extraordinarily shock resistant, fully integrated gear cover and brake cover made of high-tensile steel plate protects the internal mechanism from external impact. Special knock pins maintain the reduction gears in their correct position, assuring high mechanical efficiency.

4. Locking out dust and rain.
The brake cover completely encloses the brake, keeping out water, mud, and other foreign substances.
This maintains braking precision, ensures a long service life and plays a major role in rust prevention.

5. Bolted rubber grip assures safe operation.
The rubber grip on the lever is securely bolted, guaranteeing safe, simple handle operation.

6. Extraodinary braking force, easy release, and the finest antirust treatment. The brake mechanism is designed to avoid seizing.
The brake mechanism, which uses a non-asbestos material, exerts an extraordinary braking force during the stop operation to securely hold the load. The brake, constructed to prevent seizing, releases smoothly. A special antirust treatment lowers maintenance.

7. The chain stopper protects the body.
The chain stopper crosses the body drive at right angles, protecting the body by clearly indicating the lowering limit.

8. A special surface-treated, rust resistant white load chain.
The surface of the white load chain is specially treated to ensure a long service life even in severe operating conditions, including marine operation.

9. Superstrong load chain for heavy-duty use.
Elephant's. high-tech load chains are approved by DIN 5684, one of the world's strictest standards. Their tensile strength is higher than JIS Grade V(100kgf/mm^2) (Of the world's standards, Grade V is only set in JIS.)

10. Dependable device prevents overwinding.
The bottom hook is shaped so that it can be stopped by the side plates of the body. It is also equipped with a guard which protects the chain stop pin when it is pulled horizontally.

2

SEIZING.
ST-RESISTANT COATING.

resists scratches and prevents rust.
ensuring safety and rigidity.

CE mark.

AN EXTENSIVE RANGE OF YIII SERIES MACHINES TO MEE

YⅢ-50
■ Capacity 500kg

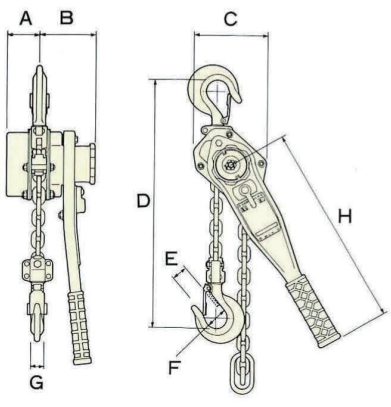
YⅢ-80
■ Capacity 800kg

YⅢ-100
■ Capacity 1t

YⅢ-160
■ Capacity 1.6t

YⅢ-320
■ Capacity 3.15t

YⅢ-
■ Capacity



※The design of the YⅢ-50 is slightly different than what is shown above.

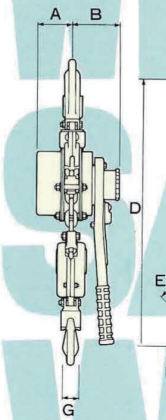
■SPECIFICATIONS

Model	YⅢ-50	YⅢ-80	YⅢ-100	YⅢ-160	YⅢ-320	YⅢ-630	YⅢ-900
Capacity	500kg	800kg	1t	1.6t	3.15t	6.3t	9t
Standard lift (m)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Min. Headroom (mm)	265	294	312	355	411	564	689
Hand effort to lift full working load (kg)	34	30	37	30	37	38	39
Load chain diameter	5	5.6	5.6	7.2	9	9	9
Number of chain fall	1	1	1	1	1	2	3
Grade of chain (JIS)	V	V	V	V	V	V	V
Net weight (kg)	3.6	6.2	6.4	9.5	15.5	26.5	42

■DIMENSIONS ※The test load is 150% of the capacity.

Model	YⅢ-50	YⅢ-80	YⅢ-100	YⅢ-160	YⅢ-320	YⅢ-630	YⅢ-900
A	26.5	52.5	52.5	62.5	83	83	83
B	83	98.5	98.5	105	110.5	110.5	110.5
C	82	122	122	140	176	235	300
D	265	294	312	355	411	564	689
E	23	23	28	29	36	47	74
F	36	36	43	43	53	70	85
G	13	15	16	21	28	34	47.5
H	284	268	268	385	385	385	385

※Specifications and dimensions are subject to change without notice.



※The YⅢ-900 is

ET ALL REQUIREMENTS

CE

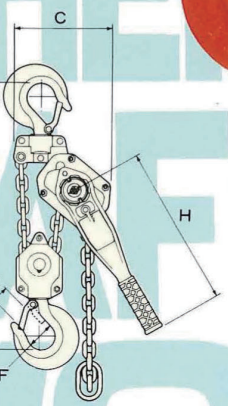
-630

6.3 t

CE

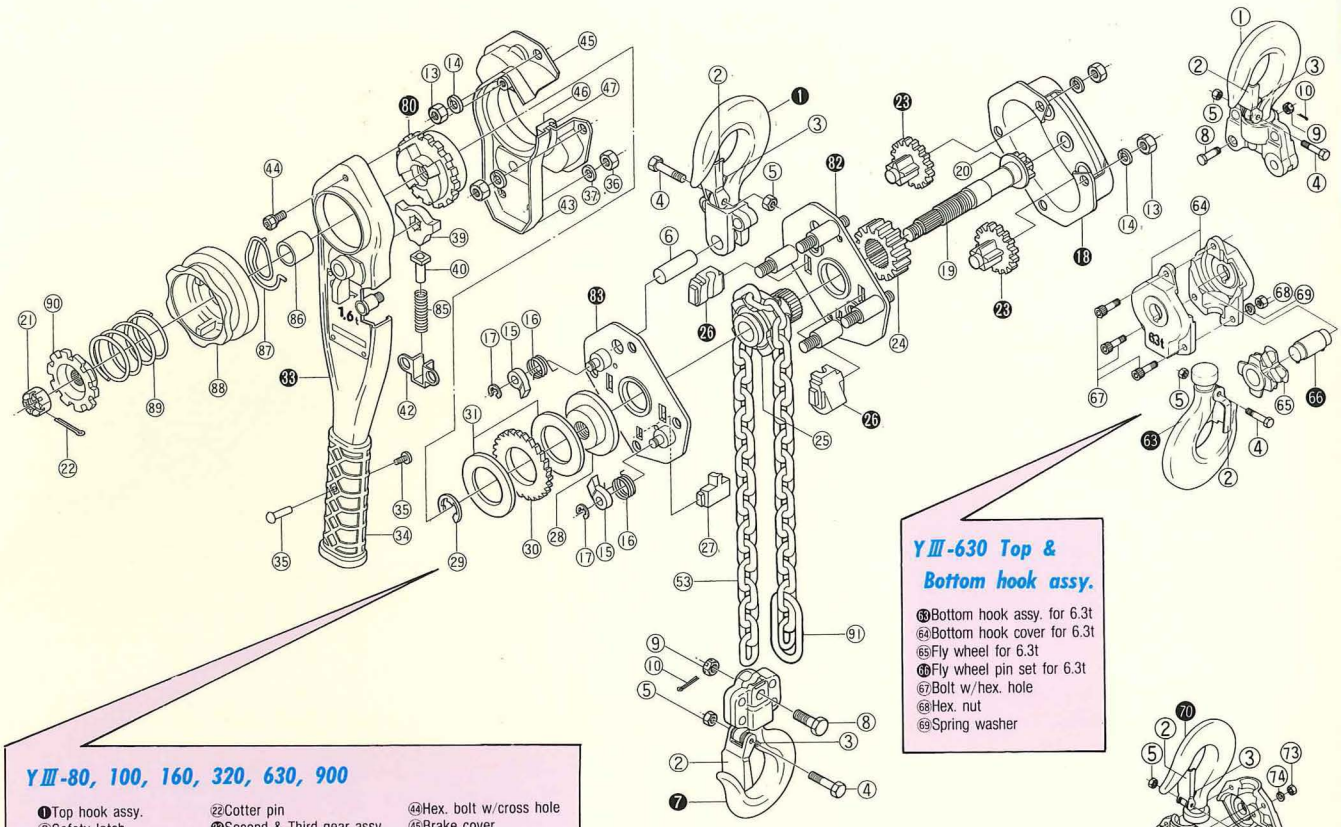
YⅢ-900

■ Capacity 9 t



a three chain model; its design is slightly different than what is shown above.

DETAIL DRAWING

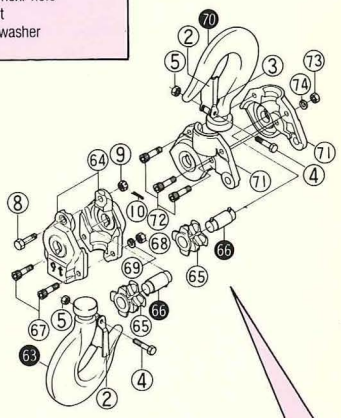


YⅢ-80, 100, 160, 320, 630, 900

❶Top hook assy.
②Safety latch
③Spring for safety latch
④Hex. bolt
⑤Hex. nut
⑥Top hook pin
❼Bottom hook assy.
⑧Chain stop bolt
⑨Castle nut
⑩Cotter pin
⑬Hex. nut
⑭Spring washer
⑮Ratchet
⑯Ratchet spring
⑰E-ring
⓫Gear cover assy.
⑲Pinion shaft
⑳Washer for pinion shaft
㉑Castle nut
㉒Cotter pin
㉘Second & Third gear assy.
㉔Load gear
㉕Load sheave
㉖Chain guide assy.
㉗Chain stripper
㉘Disc hub
㉙E-ring for disc hub
㉚Ratchet wheel
㉛Friction disc.
㉝Lever assy.
㉞Lever grip
㉟Pair screws
㊱Hex. nut
㊲Spring washer
㊴Ratchet for feed gear
㊵Ratchet spring pin
㊷Spring case
㊸Lever cover
㊹Hex. bolt w/cross hole
㊺Brake cover
㊻Cover stop ring
㊼C-ring
㊸Load chain
㊿Torque controller
⓬Gear side plate assy.
⓭Lever side plate assy.
㊺Ratchet spring
㊻Collar
㊼Spring for floating
㊽Feed handle
㊾Spring
㊿Spring receiver
㊶Chain stopper

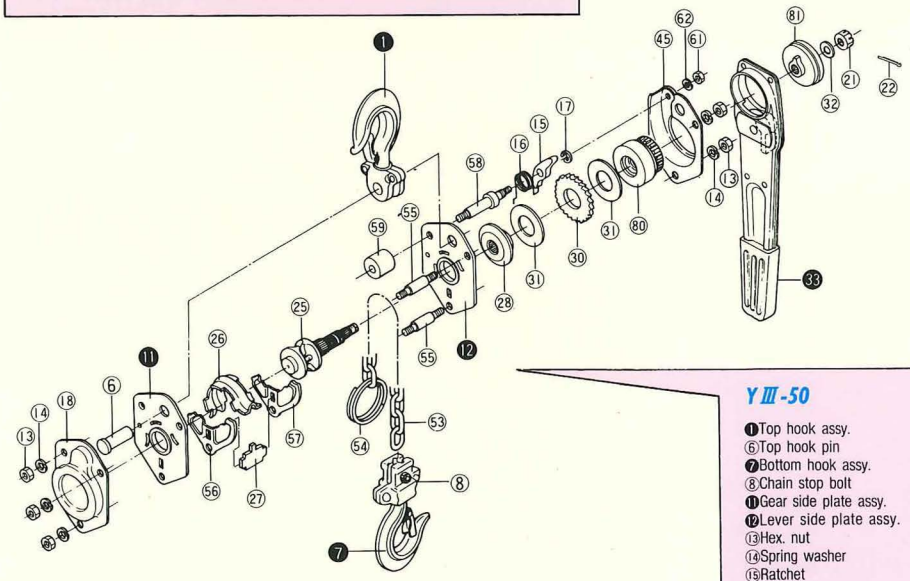
YⅢ-630 Top & Bottom hook assy.

⓭Bottom hook assy. for 6.3t
⓮Bottom hook cover for 6.3t
⓯Fly wheel for 6.3t
⓰Fly wheel pin set for 6.3t
⓱Bolt w/hex. hole
⓲Hex. nut
⓳Spring washer



YⅢ-900 Top & Bottom hook assy.

⓭Bottom hook assy. for 9t
⓮Bottom hook cover for 9t
⓯Fly wheel for 9t
⓰Fly wheel pin set for 9t
⓱Bolt w/hex. hole
⓲Hex nut
⓳Spring washer
㊿Top hook assy. for 9t
㊶Arm for 9t
㊷Bolt w/hex. hole
㊸Hex. nut
㊹Spring washer

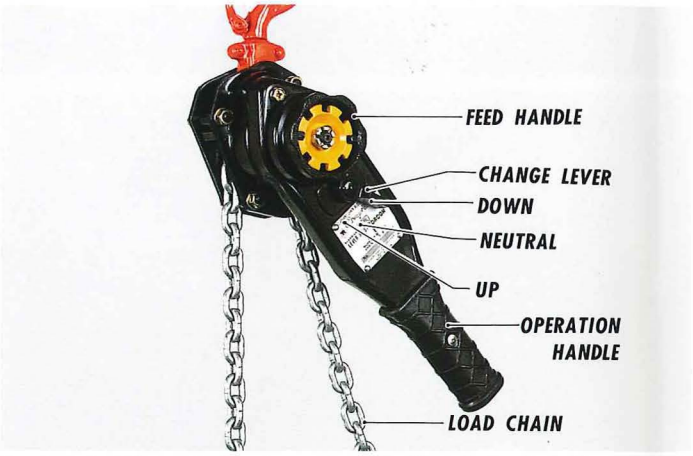


YⅢ-50

❶Top hook assy.
⑥Top hook pin
❼Bottom hook assy.
⑧Chain stop bolt
⓫Gear side plate assy.
⓬Lever side plate assy.
⑬Hex. nut
⑭Spring washer
⑮Ratchet
⑯Ratchet spring
⑰E-ring
⑱Sheave cover
⑳Washer for pinion shaft
㉑Castle nut
㉒Cotter pin
㉕Load sheave
㉖Chain presser
㉖Chain guide
㉗Chain stripper
㉘Disc hub
㉚Ratchet wheel
㉛Friction disc
㉜Check washer
㉝Lever assy
㊺Brake cover
㊸Load chain
㊹Chain stopper
㊺Stay bolt
㊻Chain leader A
㊼Chain leader B
㊽Ratchet pin
㊾Stay pipe
㊿Plain washer
㊶Hex.nut
㊷Spring washer
㊸Torque controller
㊹Lever setter

※Specifications and dimensions are subject to change without notice.

Its simple operation ensures safety! A one-touch neutral mechanism proprietary to ELEPHANT brand.



Operation is simple! Just set the change lever to the neutral position and pull up the feed handle to put the mechanism in neutral and then the chain can be quickly adjusted to a suitable length for each operation. The simple one-touch operation mechanism helps to improve work efficiency further.

The Floating Method of YⅢ Series.

※YⅢ-80 YⅢ-100 YⅢ-160 YⅢ-320 YⅢ-630 YⅢ-900

※For YⅢ-50, refer to the instruction manual.

Floating

①. Set the Change lever to Neutral.

②. Pull up the feed handle.(A yellow indicator will appear between the operation handle and the feed handle when the mechanism is in neutral.)

③. By pulling the load chain you can adjust the chain length.

Operation:(How to release floating)

④. Set the change lever to Up.

⑤. Turn the feed handle to the left (counterclockwise)while pressing it gently.

Operating the lever after the above procedures ④ and ⑤ winds up the lower hook if the change lever is set to Up and unwinds it when set to Down.

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