YaleERGO 360°UT Ratchet lever hoist with safety gear







SPECIAL APPLICATIONS SUCH AS OVERHEAD LINE CONSTRUCTION REQUIRE SPECIAL LIFTING EQUIPMENT. WE TOOK UP THIS CHAILFNGF.

Before our engineers could throw themselves into new tasks, the following needed to be explored first:

How could the fields of application for the Yale *ERGO 360*® be expanded? And what conditions would have to be created for this?

To solve this, several companies active in overhead line construction were contacted and the requirements for a such hoist were specified in a joint dialogue. It was quickly established that there was a need for an integrated, independent braking/safety device.

Taking this information into account, the new Yale *ERGO 360*[®] *UT*, based on the already proven Yale *ERGO 360*[®], has been optimised for use in overhead line construction.

This innovative safety gear, patent-pending, which prevents a sudden load drop works when a certain speed is exceeded during use as well as during inactive phases - especially when the device is tensioned for a long period of time.

The system safely absorbs the load after only 25-50 mm and thus prevents the creation of larger dynamic forces which could cause further damage.

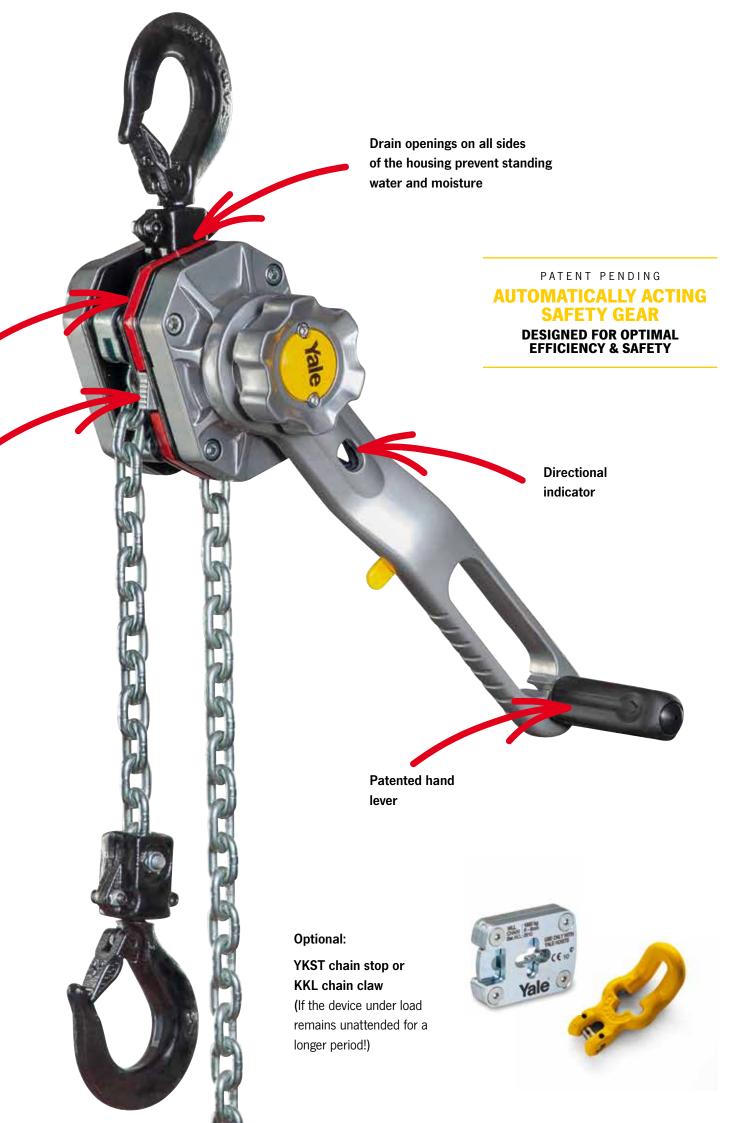
Another highlight is the possibility of being able to lift at any time - even after the safety gear has been triggered due to safety reasons.

By turning the hand lever by a full turn in lifting direction, the safety gear is automatically unlocked. It can then be returned to its original position at the push of a button.

This means that the device can be removed and checked at any time without much effort

Automatically acting safety gear

Button to fully reset the safety gear



Yale ERGO 360° UT is now also redefining the world of hoists for Wale Town with

a pending patent, once more increases the safety of use.

Here, too, the ergonomic and safety enhancing design of the device and the revolutionary, patented hand lever enable efficient work at any angle, for lifting and pulling applications.

CAPACITIES 1500 - 6000 KG

BENEFITS & FEATURES

AUTOMATICALLY ACTING SAFETY GEAR

The Yale ERGO 360® UT has a unique, automatically locking safety device to prevent a sudden drop (patent pending). It guarantees permanent monitoring and is active during operation as well as during inactive moments without the user having to activate it.

In case of emergency, i.e. after failure of the load pressure brake and the consequent exceeding of a specified speed, the safety gear automatically gets activated. It safely absorbs the load after only 25-50 mm and thus prevents the creation of larger dynamic forces which could cause further damage.

Due to its intrinsically design, the device remains in a safe state even in the event of an error (e.g. rusted ratchet pawl, broken springs or other influences such as basic corrosion or dirt).

EXCELLENT CORROSION PROTECTION

A housing optimised for outdoor applications (incl. water drain openings on all sides) prevents stagnant water and the influence of moisture in extreme conditions (e.g. rain, fluctuations in temperature) External components such as the chain guide and the stripper are zinc plated. Some of the internal moving parts such as the drive pinion, the ratchet pawl, the load chain wheel and the ratchet are MKS coated (Zinc flake coating)

PATENTED CRANK HANDLE

It guarantees the ideal power transmission for every application. Its foldable lever-handle enables a working range of 360 °, which increases productivity and reduces the risk of injury to the operator

DIRECTIONAL INDICATOR IN THE LEVER

A highly visible directional indicator located on the handle clearly shows the operating direction by means of arrow symbols.

EASY & SMOOTH FREE CHAINING

For guick take up and positioning of the slack chain – even with one hand. Designed not to accidently free chain while under load.

BUILT TO LAST

Even with intensive use, the Yale ERGO 360® UT impresses with its lightweight aluminium housing and high-quality bearings. The durable and high-quality powder coating of the surface offers additional protection in harsh environmental conditions.

EASY-TO-INSPECT SWIVEL HOOKS

Forged Hooks and cast safety latches provide for a positive and secure load engagement, as they can yield without breaking. Bolt on hooks with nyloc nuts simplify the inspection process

OPTIONS

CHAIN STOP & CHAIN CLAW*

Optionally, the devices can be equipped with our proven and tested YKST chain stop or the KKL chain claw.

With both options, the Yale ERGO 360® UT does not need to be readjusted after the individual steps but is only required in neutral mode.

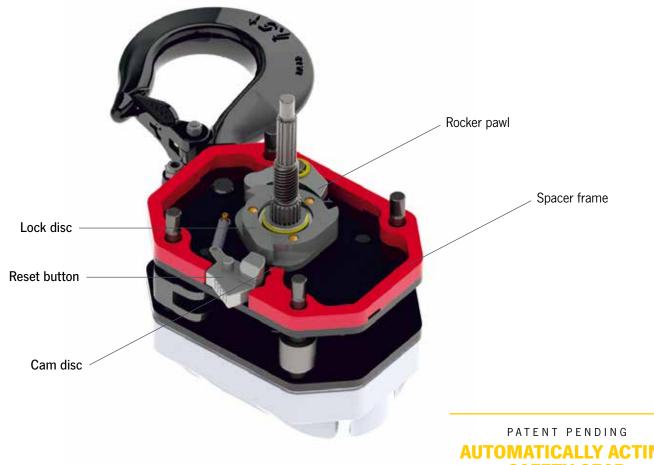
*The usage is based on each country's specific regulations.

SLIP CLUTCH (OVERLOAD DEVICE)

The slip clutch prevents damage to the unit, the handle rotates freely when hoist is overloaded. It reacts when the permissible load capacity is exceeded by 25 %.

Units with internal load limiter feature a black hand wheel for easy identification.

STRUCTURE & FUNCTIONALITY OF THE **AUTOMATIC SAFETY GEAR**



AUTOMATICALLY ACTING SAFETY GEAR

DESIGNED FOR OPTIMAL EFFICIENCY & SAFETY

FUNCTION: NORMAL OPERATION

Speed $< 0.5 \,\mathrm{m/s}$

The rocker pawl moves continuously along the contours of the cam disc and lock disc.

FUNCTION ABSORPTION

Speed $> 0.5 \,\mathrm{m/s}$

As soon as the speed exceeds 0.5 m/s, the rocker pawl engages the lock disc and safely absorbs the load.





YaleERGO 360°UT, CAPACITIES 1500 - 6000 KG

FOR ALL CIRCUMSTANCES

THREE USEFUL CAPACITIES

FOR OPTIMAL APPLICABLE USE



Capacity $3000 \, \mathrm{kg}$

Shortest hook space (A min.) 445 mm

Handle pull at WLL

- crank lever handle operation 36.0 daN
- traditional lever operation 41.0 daN

Weight 18.2 kg



Shortest hook space (Amin.) 563 mm

Handle pull at WLL

- crank lever handle operation 38.0 daN
- traditional lever operation 42.0 daN

Weight 29.9 kg

ERGONOMIC DESIGN DELIVERS OPTIMAL OPERATOR SAFETY



26.5 daN

27.5 daN

Weight 9.8 kg

- traditional lever operation

Hoist design allows the operator to work in a safe and ergonomic position.



Patented crank handle enables smooth 360° operation, reducing repetitive wrist action experienced with traditional ratchet lever hoists.



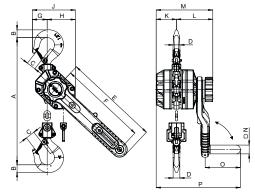
Double reduction gearing and high-quality bearings decrease required pull force by up to 30%, reducing operator fatigue.

Technical data Yale ERGO 360 ® UT

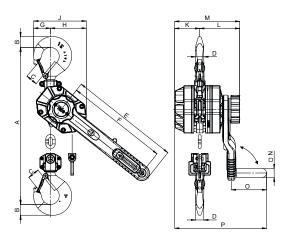
Model	Art-No.	Capacity kg	Number of chain falls	Chain dimensions dxp mm	Lift with one full lever turn mm	Handle pull at WLL daN	Weight at standard lift (1.5 m) kg
Yale ERGO 360 UT 1500	192069625	1500	1	7.1 x 21	21.7	26.5	9.8
Yale ERGO 360 UT 3000	192069671	3000	1	10x28	20.1	36.0	18.1
Yale ERGO 360 UT 6000	192071416	6000	2	10x28	10.1	38.0	29.8

Dimensions Yale ERGO 360 ® UT

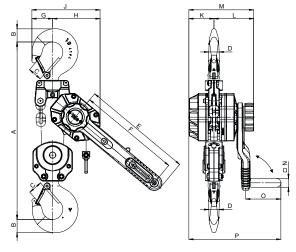
Model	Yale <i>ERGO 360 UT</i> 1500	Yale <i>ERGO 360 UT</i> 3000	Yale <i>ERGO 360 UT</i> 6000
A min., mm	375	445	563
B, mm	26	37	45
C, mm	31	40	47
D, mm	21	28	35
E, mm	327	377	377
F, mm	300	350	350
G, mm	51	57	71
H, mm	96	123	162
J, mm	147	180	233
K, mm	69	86	86
L, mm	124	136	136
M, mm	193	222	222
N mm	30	30	30
O, mm	120	120	120
P, mm	287	314	314



Yale ERGO 360® UT, 1500 kg, single fall



Yale ERGO 360® UT, 3000 kg, single fall

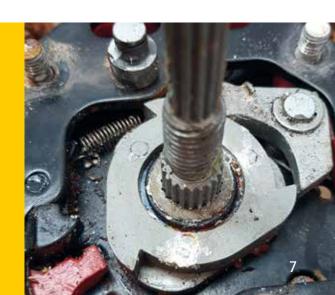


Yale ERGO 360® UT, 6000 kg, double fall

EXTREME CORROSION PROTECTION

Comprehensive corrosion protection measures of the individual components of the safety gear, tested during a salt spray test, guarantee the correct functioning of the safety gear even when used for a long time under unfavourable weather conditions.

The illustration on the right shows the core components of the safety gear after the salt spray test with a test duration of 720 h.



OPTIONAL EQUIPMENT

In addition to the automatically running safety gear, the hand lever hoist can also be equipped with a chain stop or a chain claw.

YALE CHAIN STOP - SAFE & PROVEN

The Yale chain stop – Proven in use for more than 10 years!

Especially where oscillations and vibrations could cause the load chain to slip, chain stops can reliably increase safety! It can only guarantee optimal safety if it is positioned as close as possible to the housing of the device., so that the lowest possible dynamic occurs.

As an exceptional function, the YKST locks itself on the chain by means of spring force and can only be actively unlocked by a release mechanism. This prevents accidental loosening during operations.

The YKST was developed especially for the requirements in overhead line construction and was then dynamically tested by an independent body!



CHAIN CLAW - FAST & PRACTICAL

The chain claw - the simple alternative.

The KKL also offers the operator additional safety with dynamic loads!

Due to the lack of additional mechanical locking, the chain claw can be moved faster than the chain stop. It replaces the chain end piece and thus saves additional weight!

Here too, the attachment point should be as close to the housing as possible, for optimal safety.







INCREASED PRODUCTIVITY

Due to the automatic safety gear, a constant readjustment of the chain stop and the chain claw during the work process is not necessary anymore!

Fixing the chain with a chain stop is recommended if the device remains under load and unattended for a longer stretch of time, e.g. after interruptions of work or overnight

RATCHET LEVER HOIST WITH SAFETY GEAR - SECURITY WITH DYNAMIC FORCES



Overhead line construction



Aerial construction



Construction of contact lines



Positioning work with dynamic loads Especially when using multi-fall chain slings (e.g. installation of turbines)

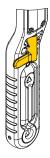


Cable car construction

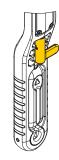
EASY-TO-USE DIRECTIONAL CONTROL & FREE CHAINING

CONVENIENT DIRECTIONAL INDICATOR

Easy-to-use, highly visible directional indicator window located in the handle clearly shows the operating direction as LIFTING (\blacktriangle), LOWERING (\blacktriangledown) or NEUTRAL (N).





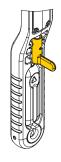




EASY & SMOOTH FREE CHAINING

Allows for quick take up and positioning of slack chain – even with one-handed use. Designed not to accidently free chain while under load. Cast chain end stop allows the user to quickly position the chain in free-chaining mode and prevents it from entering the liftwheel and jamming the hoist.

In this mode of operation, the chain can be pulled through the hoist in either direction by hand for quick attachment to the load. To engage the free chaining feature, remove the load and move the directional lever to the neutral (N) position.







SAFE & SECURE

SELECTOR LEVER LOCKS IN PLACE TO PREVENT ACCIDENTALLY SWITCHING.

Pull down on the selector lever to unlock it, turn it to the desired direction, and release it into the locking position.



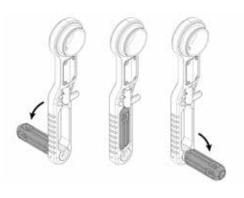
EASIER MAINTENANCE & INSPECTION

For quicker maintenance and lower repair costs, screws are set into the hoist body to protect them from potential damage.

THE REVOLUTIONARY CRANK HANDLE

CONSTRUCTION CONCEPT

- 360° rotation increases efficiency, allowing operators to work up to 12 times faster than with a conventional ratchet lever hoist.
- Operations requires 30 % less pull force.
- Easy and effective operation from any angle with handle that folds down and locks into position on either side of the lever.
- Design keeps the operator's body aligned with the load chain, reducing the risk of the twist effect – when a hoist twists around the chain. No need to use a second hand to stabilize the hoist.
- Operator can securely grip the grooved, no-slip handle, also under the influence of lubricants and dirt.
- Crank handle made of durable polyamide with a heavy-duty steel core for rugged use.



(((CLICKING SOUND)))

ENSURES THE HANDLE IS LOCKED INTO POSITION

To return handle to upright position, simply pull the handle outward and snap into place inside the lever.



EASILY CHANGE YOUR GRIPTO SUIT THE APPLICATION

In addition to its conventional use, the Yale $ERGO\,360^{\circ}\,UT$ ratchet lever hoist offers the user completely new and alternative applications. This gives operators ultimate flexibility.







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YaleERGO 360°UT Handhebelzug mit Fangvorrichtung





