

Trilift® Product Catalogue



*For the safe and time efficient handling
of mining equipment components*

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Hedweld Group of Companies

Hedweld Group of Companies consists of Hedweld USA Inc., Hedweld Engineering Pty Ltd and Mecensol Pty Ltd. Hedweld has established itself as a world leader in the design and manufacture of mining equipment.

Hedweld is known for its Trilift® range of workshop component handling equipment and the Safe-Away® range of Ladder and Stair Access Systems. Hedweld markets and distributes a range of technologically advanced, innovative products specifically designed for the mining and earthmoving industries. Both product ranges offer high quality products specifically designed to improve safety and efficiency within these industries.

Trilift® Product Range

Hedweld manufactures and distributes the Trilift® range of products specifically designed to assist with the removal, installation and handling of components on mining and heavy earthmoving vehicles. Components such as tyres, wheel motors, hoist cylinders, final drives, transmissions, differentials, hub and strut assemblies and more can be safely handled using our Trilift® component handling products.

As well as supporting the Australian mining industry, Hedweld products are exported globally to regions including Africa, North, Central and South America, Central Asia, Europe and the Asia Pacific.

To keep pace with the ever changing developments in heavy machinery design, Hedweld works closely with Original Equipment Manufacturers (OEMs) to custom design new and innovative products to make component lifting and handling safer, more time efficient and offering significant productivity gains. With the release of new, larger mining and earthmoving equipment, comes the need to safely lift and handle heavier components. Hedweld is constantly reviewing product designs in order to provide the market with timely solutions to the latest lifting and handling requirements.

Safety	Efficiency	Innovation
Hedweld's Trilift® range of tooling makes component handling safer by eliminating manual handling and reducing the need for mobile plant in the workshop.	By doing things smarter, downtime is reduced and repairs or maintenance to equipment is less labour intensive, providing increased productivity.	Using the latest design techniques and technology, we pride ourselves on being at the forefront of innovation.

*Through innovation we provide
improved safety and efficiency*



Variable Work Tables

VWT 15

The Trilift® Variable Work Table 15 has been designed and manufactured to provide the versatility to safely handle a range of components on large earthmoving trucks which have a carrying capacity up to 240 tonnes.

The main frame carrier is self-propelled and hydraulically operated and has a safe working capacity of 15 tonnes (on the table). The table is pre-drilled to accept task specific jigs including the Trilift® Multijig 15 attachment (Please see pages 8-14 for available Trilift® VWT Jigs). The Trilift® VWT 15 is available in three models:

1. **Trilift® VWT 15D** which is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. (Part No. TL01015)
2. **Trilift® VWT 15E** which is 36V DC powered utilising a 240V AC smart battery charger to charge the battery pack. (Part No. TL01002)
3. **Trilift® VWT 15PE** which is pneumatic/hydraulic powered. (Part No. TL01016)

Features

- Self-propelled
- 3 power options
- Table capable of raise, tilt and slew
- Minimises the need for suspended loads
- Work within one workshop bay
- Reduces down time
- Increases safety for all working on and around the machine

Component handling includes

- Wheel motors
- Rear struts
- Front hubs
- Hub and strut assemblies
- Final drives
- Hoist cylinders

(For handling the above components, please review the following pages for job specific jigs).



Front Strut removal utilising the Trilift® Multijig jaw clamps



Hoist cylinder removal with the Trilift® Multijig and Universal Cylinder Clamp



Variable Work Table Jigs

Multijig 15 (Part No. TL02008A)

The Trilift® Multijig 15 attachment is designed to bolt directly on the pre-drilled table of the Variable Work Table 15 to aid in the removal of a variety of heavy earthmoving components.

Components include

- Front hub and strut assemblies using clamp jaws
- Front and rear suspension struts (Trilift® Universal Cylinder Clamp required)
- Hoist cylinders (Trilift® Universal Cylinder Clamp required)

Features

- Hydraulic operation (integrating with Trilift® VWT 15)
- Load holding (counterbalance) valves on all cylinders



Compatible with the Trilift® VWT 15

Universal Cylinder Clamp (Part No. TL02006)

The Trilift® Universal Cylinder Clamp when used in conjunction with the Trilift® Multijig 15 is designed to assist with the safe and efficient handling of large hydraulic cylinders, including hoist cylinders and rear struts.

Featuring a telescopic arm, the reach of the clamp can be easily altered for two lengths of operation by pinning the adjustable arm to the required length. To clamp a cylinder, tension adjustable wire ropes are fitted to the head of the Trilift® Universal Cylinder Clamp. A lifting eye is provided under the boom so that the jig can also be used as a jib crane.

Features

- Working Load Limit capacity of 1850kgs at maximum reach
- Simple, quick attachment to the head of the Trilift® Multijig 15
- Adjustable arm length for extended reach (max extension 2280mm approx)
- Adjustable wire ropes to clamp cylinders of varying diameters from 350mm to 500mm



Compatible with the Trilift® VWT 15



Variable Work Tables

VWT XC20 (WLL 24T)

The Trilift® Variable Work Table XC20 has been designed to safely handle a range of components on large mining and earthmoving trucks which have a carrying capacity in excess of 240 tonnes.

The main frame carrier is self-propelled and hydraulically operated with a Working Load Limit of 24 tonnes (on the table). The table is pre-drilled to take a range of component specific jigs (Please see pages 8-13 for available Trilift® VWT Jigs). The Trilift® VWT XC20 is available in 2 models:

1. Trilift® VWT XC20D which is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. (Part No. TL01020)



2. Trilift® VWT XC20E which is AC/DC powered offering the choice of 415V AC and 48V DC power (custom voltages are available upon request). (Part No. TL01001)



Features

- Fully remote controlled and self-propelled
- 2 power options
- Table capable of raise, tilt and slew
- Minimises the need for suspended loads
- Work within one workshop bay
- Reduces down time
- Increases safety for all working on and around the machine

Component handling includes

- Wheel motors
- Rear struts
- Front hubs
- Hub and strut assemblies
- Final drives
- Hoist cylinders

(For handling the above components, please review the following pages for job specific jigs).



Trilift® VWT XC20 and VWT XC30 are remote controlled



Variable Work Tables

VWT XC30

The Trilift® Variable Work Table XC30 has been designed to safely handle a range of components on the Ultra-class range of mining haul trucks which have a carrying capacity in excess of 240 tonnes.

The main frame carrier is self-propelled, hydraulically operated and has a working load limit of 30 tonnes (on the table). All wheel drive and all wheel steer provide greater manoeuvrability. The table is pre-drilled to accept a range of component specific jigs (Please see pages 8-14 for available Trilift® VWT Jigs). The Trilift® VWT XC30 is available in 2 models:

1. **Trilift® VWT XC30D** which is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. ([Part No. TL01003](#))
2. **Trilift® VWT XC30E** which is AC/DC powered offering the choice of 415V AC and 48V DC power (custom voltages are available upon request). ([Part No. TL01031](#))



Rear Strut removal with the Trilift® XC30, Multijig XC and Universal Cylinder Handler

Features

- All wheel drive, all wheel steer
- Fully remote controlled and self-propelled
- 2 power options
- Table capable of raise, tilt and slew
- Minimises the need for suspended loads
- Work within one workshop bay
- Reduces down time
- Increases safety for all working on and around the machine

Component handling includes

- Wheel motors
- Rear struts
- Front hubs
- Hub and strut assemblies
- Final drives
- Hoist cylinders

(For handling the above components, please review the following pages for job specific jigs).



VWT XC30 with Komatsu 960E



Variable Work Table Jigs

Multijig XC Tilt Head

(Part No. TL02090A)

Designed to integrate with the Trilift® VWT XC20/30 the Trilift® Multijig XC Tilt Head bolts directly to the pre-drilled table to assist with the removal of the following components.

Components include

Used in conjunction with a range of Trilift® jigs to handle:

- Hoist cylinders
- Front & Rear Suspension Cylinders
- Suspension struts
- Rear Suspension Links (with Trilift® Rear Suspension Link Jig)

Features

- Hydraulic operation (integrating with Trilift® VWT XC 20/30)
- Load holding (counterbalance) valves on all cylinders
- Integrates with Trilift® VWT XC20/30 remote control
- Head rotation 180 degrees



Compatible with the Trilift® VWT XC20/30

Cylinder Handler

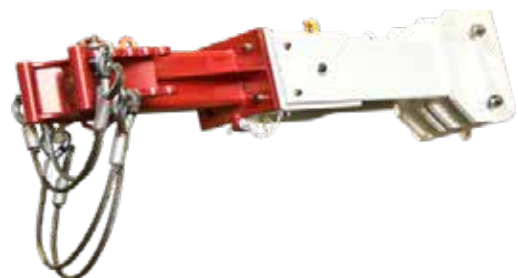
(Part No. TL02091)

The Trilift® Cylinder Handler when used in conjunction with the Trilift® Multijig XC Tilt Head, is designed to assist with the safe and efficient handling of large hydraulic cylinders, including hoist cylinders, front and rear struts on various model.

Featuring a telescopic arm, the reach of the clamp can be easily altered for two lengths of operation by pinning the adjustable arm to the required length. To clamp a cylinder, tension adjustable wire ropes are fitted to the head of the Trilift® Cylinder Handler. The attachment of a lifting hook allows the jig to be used as a jib.

Features

- Working Load Limit capacity of 2000kgs at maximum reach
- Telescopic reach adjustment
- Quick-Hitch for connection to Trilift® Multijig XC Tilt Head and Trilift® Rear Suspension Link Jig
- Adjustable wire ropes to clamp cylinders of varying diameters 350mm to 500mm
- New small Clamp Head 150mm to 350mm available



Compatible with the Trilift® VWT XC20/30



Variable Work Table Jigs

Strut Jig

(Various Part No.s)

The Trilift® Strut Jig when used in conjunction with the Trilift® Multijig XC is designed to assist with the safe and efficient handling of large hydraulic struts following removal of hub and spindle. Jigs available for Komatsu and Caterpillar.

Features

- Integrates with Trilift® VWT XC20/30 remote control
- Integrates with Trilift® Multijig XC Tilt Head quick hitch



Compatible with the Trilift® VWT XC20/30

Rear Suspension Link Jig

(Part No. TL02120)

The Trilift® Rear Suspension Link Jig is used to provide support for the Rear Suspension Link or Stabiliser Arm (aka Dog Bone) during removal and replacement.

When used in conjunction with the Trilift® Cylinder Handler (Part No. TL02091) and Multijig XC (Part No. TL02090A) on the VWT XC20/30 the Rear Suspension Link Jig (shown below in red) allows access to the component without the need to work under suspended loads.

Features & Benefits

- Integrates with Multijig Tilt Head and Cylinder Handler
- Unique adjustable clamp design reduces the risk of unplanned movements
- Quick-hitch mounting
- Reduced risks associated with manual handling
- Able to reach a distance of up to 8407mm/ 331 inches
- Reduces maintenance time



Compatible with the Trilift® VWT XC20/30



Variable Work Table Jigs

Hub & Spindle Jig

(Various Part No.s)

When used in conjunction with the Trilift® VWT XC20/30 the Hub & Spindle Jig is designed to assist with the safe and efficient handling of front hubs and spindle assemblies on a range of large mining and earth moving equipment.

Components include

- Hub & Spindle assemblies

Features

- Integrates with Trilift® VWT XC20/30 remote control



Compatible with the Trilift® VWT XC20/30

Universal Spider Tool

(Part No. TL02028)

The hydraulically operated Trilift® Spider Tool is bolted to the Trilift® Variable Work Table and is designed to assist with the safe and efficient removal and replacement of components such as, Cat dozer high drives, Cat 797 differentials and the front hub assemblies of most models of wheeled earthmoving equipment.

Features

- Adjustable to suit various components
- Forklift tine pockets and lifting lugs for ease of handling
- Hydraulically operated
- Optional hydraulic height adjustment (Part No. TL02026)
- Integrates with existing Trilift® VWT hydraulics
- Integrates with Trilift® VWT XC20/30 remote control
- Integrates with the Trilift® VWT 15 to handle front hubs



Compatible with the Trilift® VWT 15/XC20/30



Variable Work Table Jigs

Universal Electric Wheel Motor Jig

(Part No. TL02095)

The Trilift® Universal Electric Wheel Motor Jig is designed to assist with the removal and installation of wheel motors on trucks and loaders.

The jig is bolted to the Trilift® Variable Work Table and is currently adaptable to suit General Electric AC and DC wheel motors.

The jig is supplied complete with adjustable chains for retaining the assembly.

Features

- Lifting lugs for ease of handling
- Adjustable rollers for differing size wheel motors
- Adjustable safety chains supplied



Compatible with all Trilift® Variable Work Tables

Universal Large Wheel Motor Jig

(Part No. TL02093)

The Trilift® Universal Large Wheel Motor Jig is bolted to the Trilift® Variable Work Table XC20/30 and used to assist with the removal and installation of large AC wheel motors on most makes and models of ultra-class trucks (with pay loads in excess of 240 tonne).

The Trilift® Universal Large Wheel Motor Jig is fitted with fork lift tine recesses so that the jig can be used as a transportation frame. The jig is supplied complete with adjustable chains for retaining the assembly.

Features

- Forklift tine pockets and lifting lugs for ease of handling
- Adjustable for varying size wheel motors
- Adjustable safety chains supplied



Compatible with the Trilift® VWT XC20/30



Variable Work Table Jigs

Universal Hub & Strut Jig (Part No. TL02048A)

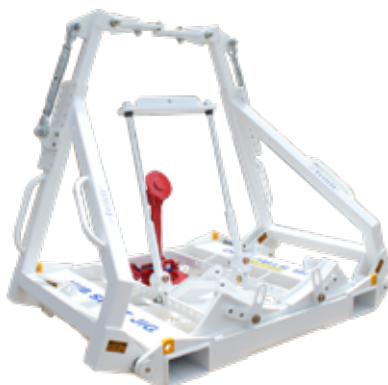
The Trilift® Universal Hub & Strut Jig has been developed to assist maintenance crews in the removal and replacement of front strut and hub assemblies from large trucks.

The Trilift® Universal Hub & Strut Jig is a universal tool which can be adjusted to provide support for:

1. Komatsu 730, 830, 930 and 960 front strut and hub assemblies.
2. Caterpillar 777, 789, 793, 795 and 797 front strut and hub assemblies.

Features

- Lifting lugs and forklift tine pockets for easy handling
- Ideal for use as a transport frame
- Adjustable for a wide range of trucks
- Suitable for extended life brake pack assemblies



Compatible with all Trilift® Variable Work Tables

Komatsu Front Quarter Jig (Part No. TL02038)

The Trilift® Komatsu Front Quarter Jig has been developed to assist maintenance crews in the removal and replacement of the front strut and hub assemblies from Komatsu trucks up to 100 tonnes.

The jig base is fitted with forklift tine pockets and crane lifting points, to provide an ideal transportation frame for the hub and strut assembly once the jig is removed from the Trilift® VWT.

Features

- Lifting lugs and forklift tine pockets for ease of handling
- Adjustable safety chains supplied



Compatible with all Trilift® Variable Work Tables



Variable Work Table Jigs

Universal Rear Wheel Group Jig (Part No. TL02023)

The Trilift® Universal Rear Wheel Group Jig is attached directly to the Trilift® Variable Work Table and is designed to assist with the removal and installation of mechanical final drives from various makes and models of large earthmoving and mining equipment.

Features

- Lifting lugs for ease of handling
- Adjustable for varying size final drives
- Adjustable safety chains supplied
- 150mm and 100mm spacers included
- Forklift tine pockets and lifting lugs for ease of handling



Compatible with all Trilift® Variable Work Tables

Universal Wheel Nut Tool (Part No. TL17000)

The Trilift® Universal Wheel Nut Tool attaches to the Variable Work Tables to provide a safer and more efficient method of handling wheel nuts from large mining and earthmoving equipment.

The Trilift® Universal Wheel Nut Tool is designed and manufactured to access both outer and inner wheel nuts. By automating this maintenance task personnel are kept out of the line of fire.



Compatible with all Trilift® Variable Work Tables



Tyre Handlers

TH15000 Workshop Tyre Handler

(Part No. TL14000)

Features

The Trilift® TH15000 Workshop Tyre Handler has been designed to provide a maintenance tool for the safe removal and installation of wheel assemblies, including handling front assemblies with hubs attached, allowing faster access to brakes and seals from a range of earthmoving and plant equipment.

The Trilift® TH15000 Workshop Tyre Handler has been developed to be used in a workshop environment and its compact design poses minimal impact on the normal operations of a mining workshop.

This fully self-contained diesel/hydraulic powered, remote controlled unit will handle wheel assemblies up to 15000kgs /33000lbs. The Trilift® TH15000 Workshop Tyre Handler can handle tyres ranging in size from 27 R49 to 59/80 R63. This product is a valuable asset in all mining and earthmoving workshops.

- Fully remote controlled
- Narrow foot print
- All wheel drive and steer
- Handles tyres from R49-R63
- Jib Arm to support torque tooling



Trilift® TH15000 Workshop Tyre Handler removing Cat 789C tyre



Trilift® TH15000 Workshop Tyre Handler narrow footprint



Trilift® TH15000 Workshop Tyre Handler with wheel assembly and chains



Tyre Handling Accessories

Tyre Stand (Part No. TL14006)

The Trilift® Tyre Stand has been designed as a convenient maintenance tool for the safe, temporary storage of a tyre and/or wheel assembly. This unit will handle tyres and rims up to 15,000kg ranging in size from 27 R49 to 59/80 R63.

Load and unload the Trilift® Tyre Stand using the TH15000 Workshop Tyre Handler or existing tele handling equipment. Two tie down hooks provide a safer method of securing the wheel assembly to the stand.



Features

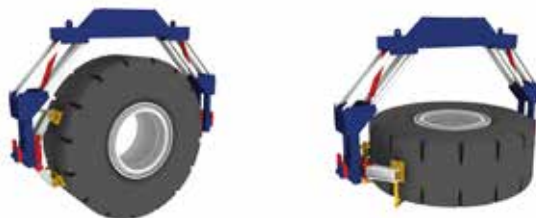
- Fork lift tyre pockets for positioning of the stand (unloaded)
- Tie down hooks
- Tare weight 1100kg
- W.L.L. 15T
- Suits wheel assemblies from R49 to R63

CR20000 COMING SOON Component Rotator (Part No. TL14100)

The Trilift® CR20000 Component Rotator has been designed and manufactured to enable the handling and rotation of various components including large earthmoving wheel assemblies, final drives, dozer track frames and wheel motors etc.

Working in conjunction with an existing workshop overhead crane, this remote controlled unit allows maintenance staff to safely and efficiently lift and rotate components within the confines of a single workshop bay.

When used with the Trilift® TH15000 Workshop Tyre Handler, the Trilift® CR20000 Component Rotator can safely handle wheel assemblies from large earthmoving and mining equipment.



Features

- Remote controlled
- 20,000kgs/44,000 lbs W.L.L.
- Utilises overhead crane
- Handles a range of components
- Load and unload directly from the TH15000



Tyre Handlers

TH2000 Tyre Handler

The TH2000 Tyre Handler has been designed to provide a maintenance tool for the safe removal and installation of tyres from a range of earthmoving and plant equipment. This tool has been developed to be used on rough terrain and is suitable for both underground and surface use.

This fully self-contained remote controlled unit will handle tyres and rims up to 2000kg, 1900mm diameter and 820mm wide.

For added stability, the telescopic support arms are prevented from being raised unless they are fully retracted. Proportional control valves provide motion control when aligning the jig with the tyre or wheel being removed.

The Trilift® TH2000 Tyre Handler is available in 2 models:

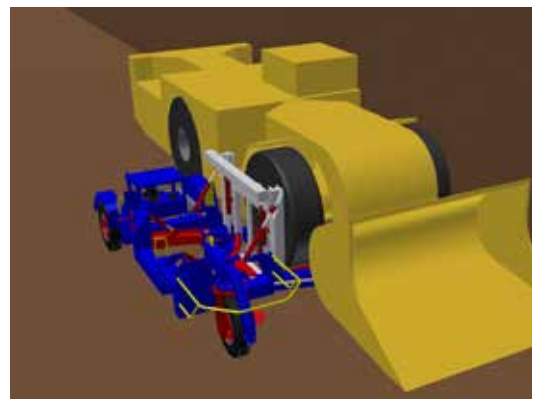
1. The Trilift® TH2000 D Tyre Handler is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. ([Part No. TL14005](#))

2. The Trilift® TH2000 P Tyre Handler is pneumatic/hydraulic powered. ([Part No. TL14002](#))



Features

- 2 power options
- Self-propelled
- Suitable for underground use
- Narrow foot print
- Remote controlled



Suitable for underground mines



To enable the Trilift® TH2000 to be transported more rapidly over greater distances, a self-loading Transport Trailer with a swivel 40mm drawbar is available



Jack Stands

Jack Stands (Single and Twin)

The Trilift® Jack stands are a versatile, heavy duty, self-locking system for lifting and supporting large earthmoving equipment such as trucks loaders and dozers.

The inclusion of a locking mechanism ensures compliance with Australian/New Zealand Standard AS/NZS2538-1995, vehicle support stands. Once the load is raised, spring loaded jaws lock into the teeth on either side of the jack transforming the Trilift® Single and Twin Jack Stands into certified support stands. This feature eliminates the difficult, time consuming and dangerous procedure of making the change from a jack to a support stand and improves productivity by halving the time it takes to perform the task.

The Power Pack's 6 metre long hoses allow the operator to control the Twin Jack Stand from a safe distance, reducing the risk of 'line-of-fire' incidents.

Models available:

- Jack Stand Model 100 - 2x50 tonne ([Part No. TL13101](#))
- Jack Stand Model 300 - 2x150 tonne ([Part No. TL13130](#))

2 power options are available:

- Electric ([Part No. CP03011](#))
- Pneumatic ([Part No. CP03015](#))



The Trilift® Jack Stand Model 100 lifting a dozer

Features

- Jack and certified work stand combined in a single unit
- Can be used as 2 Single Jack Stands
- Adjustable jack widths using centre carriage
- Self-engaging locking jaws for increased safety
- Easy placement under a vehicle using a pallet jack
- Simple release of jaws prior to load lowering



Single Jack Stand



Electric Power Pack

Pneumatic Power Pack

Contact Hedweld for custom designed adaptors



Transmission Handling

Transmission Hoist MKII

(Part No. TL12010)

The Trilift® Transmission Hoist MKII has been designed to overcome the practical difficulties in removing and installing transmissions and differentials in heavy mining and earthmoving equipment **without** removing the dump body.

Hedweld has designed this unique transmission hoist to be a main frame carrier with specific cradles, adaptors and jigs.

Cradles and Adaptors

- A Transmission Cradle (Part No. HW75310)
 - o and Adaptors to suit:
 - o Cat 777 B, C & D (Part No. HW52100)
 - o Cat 777 G (Part No. HW52101)
 - o Cat 785, 789 & 793 B, C & D (Part No. HW52000)
 - o Kress Haulers (Part No. HW52050).
- A Transmission Cradle and Adaptors to suit Cat 793F (Part No. HW52051).

Differential Handling

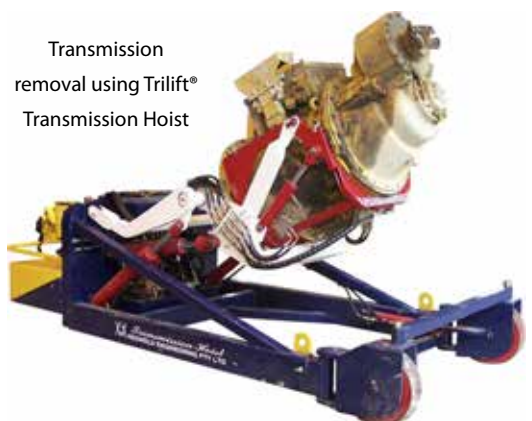
- A Differential Jig to suit Cat 785, 789 & 793 and Kress Haulers (Part No. HW75305).
- A Differential Adaptor to suit Cat 777 (Part No. HW75306).



Differential removal using the Trilift® Differential Removal Jig and the Trilift® Transmission Hoist

Features

- No need to remove truck body
- No overhead or mobile crane required during removal/installation
- More control over the component being handled making the task safer
- Reduced maintenance time for transmission and differential handling
- Fully remote controlled allowing easier visual access for removal/installation procedure



Transmission removal using Trilift® Transmission Hoist



Trilift® Transmission Hoist in action



Transmission Handling

Wheel Stands or Ramps

In most cases, to provide sufficient clearance for transmission removal using the Trilift® Transmission Hoist MKII, the rear of the truck needs to be raised. Trilift® offers two different options.

The Trilift® Transmission Removal Stands (*Part No. TL12101*) are placed under the outside set of wheels. This allows clearance for the removal of the transmission under the differential. The stands are adjustable in height to suit the various models of Cat trucks.

The Trilift® Transmission Removal Ramps (*Part No. TL12103*) allow the truck to be reversed into place and are designed to accommodate the various models of Cat truck.



Trilift® Transmission Removal Stand



Trilift® Transmission Removal Ramp

Final Drive Handling

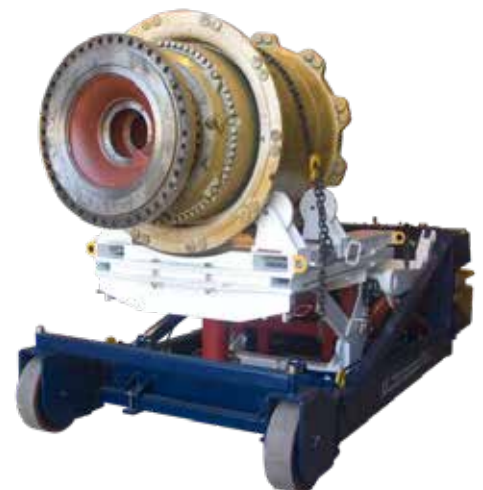
The Trilift® Final Drive Base Frame and Jigs have been designed to assist with the safe handling of the final drive assemblies from heavy earthmoving and mining equipment.

Attaching the Trilift® Final Drive Base Frame (*Part No. TL12102A*) to the Trilift® Transmission Hoist MKII allows for the addition of a Trilift® Final Drive Jig. Both parts are designed to mechanically and hydraulically integrate with the Transmission Hoist MKII.

Pre-drilled locating holes along each side of the jig allow the rollers to be set to different positions to suit the model final drive being handled.

Final Drive Jig options include:

- Final Drive Jig to suit Cat 777 (*Part No. TL12111*).
- Final Drive Jig to suit Cat 785, 789 & 793 B, C & D (*Part No. TL12112*).





Transmission Handling

Cat 797 Transmission Hoist

The Trilift® Cat 797 Transmission Hoist is a specialised Trilift® hoist designed to assist with the removal and installation of Cat 797 transmissions without removing the truck body.

The hoist frame has been designed to allow placement on the truck chassis using the workshop overhead crane. Hoist hydraulic functions include winch raise/lower, winch portal extend/retract and transmission right/left rotate or tilt via two additional cylinders.

The Trilift® Cat 797 Transmission Hoist is available in 2 models:

1. **Cat 797 Transmission Hoist D** is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. [\(Part No. TL12011\)](#)
2. **Cat 797 Transmission Hoist P** is pneumatic/hydraulic powered. [\(Part No. TL12012\)](#)

Both models include a:

- **Transmission Hoist Transport Frame** [\(Part No. TL12090\)](#) essential for shipping and is utilised for assembling and onsite transport.
- **Transmission Lifting Bracket** [\(Part No. TL12007\)](#).

OPTIONAL

Transmission Cradle [\(Part No. TL12108\)](#) to safely store and transport the transmission.

Features

- Eliminates dump body removal
- No mobile cranes required during removal/installation
- 2 power options
- Work within one bay
- Reduced down time
- Safety handrails and non-slip platforms provide a safe, stable working area for maintenance staff
- Safer, more efficient drive shaft handling



Trilift® Cat 797 Transmission Hoist removing the transmission



Trilift® Cat 797 Transmission Hoist removing the transmission



Trilift® Cat 797 Transmission Hoist and transmission lowered to the ground



Generator Handling

Cat 795 Generator Hoist

The Cat 795 Generator Hoist is a specialised Trilift® hoist designed to assist with the removal and installation of Cat 795 generators without removing the truck dump body.

The main portal frame of the Cat 795 Generator Hoist extends (toward the rear of the truck) to allow connection of the winch to the generator lifting point. When the generator is attached the Cat 795 Generator Hoist can be lifted off the chassis and placed onto the workshop floor using the overhead crane.

Hedweld have developed the Cat 795 Generator Hoist to give the operator a safe working platform, maximum visibility, precise control and accurate movement.

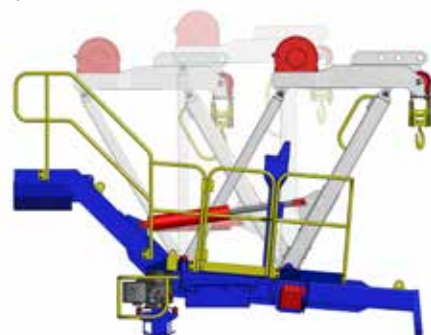
The Trilift® Cat 795 Generator Hoist is available in 2 models:

1. **Cat 795 Generator Hoist D** is powered by a self-contained Tier IV pollution rated diesel motor powering the hydraulic pump. [\(Part No. TL12020\)](#)
2. **Cat 795 Generator Hoist P** is pneumatic/hydraulic powered. [\(Part No. TL12030\)](#)

Both models include a:

- **Generator Hoist Transport Frame** essential for shipping and is utilised for assembling and onsite transport.
- **Generator Lifting Bracket.**

Start position In motion Forward position



Features

- Eliminates dump body removal
- No mobile cranes required during removal/installation
- 2 power options
- Work within one bay
- Reduced down time
- Safety handrails and non-slip platforms provide a safe, stable working area for maintenance staff



G.E.T. Products

Chain N Lift

The Trilift® Chain N Lift has been designed to enable field maintenance staff to carry out the safe and efficient handling of dragline, excavator and shovel bucket teeth.

The Trilift® Chain N Lift is available in 2 sizes:

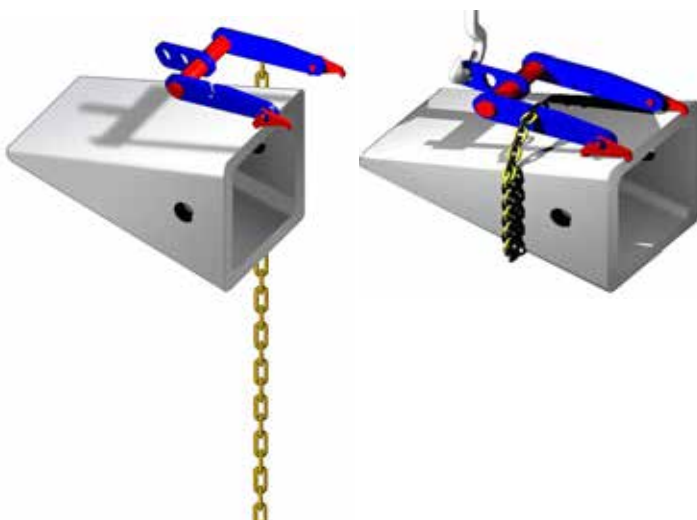
1. 100kgs/220lbs W.L.L. ([Part No. TL20001](#)) or
2. 400kgs/882lbs W.L.L. ([Part No. TL20002](#))

Installation Steps:

1. After removing the tooth retaining pin,
2. Position the claw foot over the back edge of the tooth.
3. Locate the chain around the tooth and lock tightly into the slot on the other Trilift® Chain N Lift arm.
4. Connect a hook or 'D' shackle to the lifting point and carefully remove/install the tooth.

Features

- Eliminates manual handling
- Two lifting eyes to vary the tooth positioning angle
- Self-aligning, auto-adjusting foot to allow for tooth wear
- Adjustable chain for variable tooth sizes



Trilift® Chain N Lift fitted to a bucket tooth



G.E.T. Products

Lever Pin N Lift

The Trilift® Lever Pin N Lift has been developed to safely lift and place G.E.T., cutting edges, corner tips etc, from large earthmoving equipment.

Complementing our current range of G.E.T. lifting tools, this new design allows for lifting of cutting edges with square or plow bolt holes, and new reversible double-countersunk cutting edges.

The Trilift® Lever Pin N Lift is supplied with adaptors for different size cutting edges. With these adaptors the Trilift® Lever Pin N Lift can be easily adapted to different sizes;

1622 - (Part No. TL20071)

- 16mm
- 18mm
- 20mm
- 22mm

2538 - (Part No. TL20041)

- 25mm
- 32mm
- 36mm
- 38mm



Features

- Eliminates manual handling
- Comes with adaptors for different size cutting edges
- Stainless steel cast construction
- Use with overhead or mobile crane
- W.L.L. 250kgs/551lbs (Part No. TL20071)
- W.L.L. 400kgs/880lbs (Part No. TL20041)





Belly Pan Hoist & Tooling

Belly Pan Hoist (Part No. TL10023)

The Trilift® Belly Pan Hoist has been designed and manufactured for the safe and efficient removal of the belly pan from dozers, scrapers etc, in areas of difficult terrain such as on wet wash down pads and rough workshop floors.

The large rear wheels enable easier movement over a rough workshop floor and the even larger 125mm wide rubber drive wheel ensures that optimum traction is achieved. A strong, low profile support frame ensures the belly pan can be removed without jacking up the machine.

Features

- One person self-propelled operation
- Easy manoeuvrability over rough floors
- Low profile access to underside of dozer
- Adjustable height from 285mm to 1100mm
- Turntable for precise pan location
- Air/hydraulic operation



Universal Slope Jig (Part No. TL10006)

To allow for the sloping bottom of some belly pans and sumps, Hedweld have developed a jig which bolts onto the turntable of the Trilift® Belly Pan Hoist, to enable safer raising and lowering of the pan. The device has a hinged frame, which is raised or lowered to vary the angle, by using a screw actuator.



Ball-Cap Jig (Part No. TL10019)

The Trilift® Ball-Cap Jig has been designed and manufactured for the safe and efficient handling of ball-caps on Letourneau Loaders.





Belly Pan Hoist Tooling

Cat A-Frame Pin Tool

(Part No. TL10022)

The Trilift® Cat A-Frame Pin Tool is designed for the removal of the A-Frame connection pin and mounting blocks that connect the A-Frame (wishbone) to the chassis on Cat trucks.

Not required for Cat 793F trucks.

Trilift® Cat A-Frame Pin and Mounting Block



Pump Jig

(Part No. TL10021)

The Trilift® Pump Jig has been developed to assist in the removal and installation of hydraulic pumps from beneath large mining trucks eg. steering and hoist pumps.



Trilift® Pump Jig in operation

Liebherr T282 Steering Link Jig

(Part No. TL10024)

The Trilift® Liebherr T282 Steering link Jig provides a safer way to handle steering links.



Spindle Plate Jig

(Part No. TL10026)

The Trilift® Spindle Plate Jig is designed to provide more secure support when handling spindle retainers and taper breakout plates.



Contact Hedweld for custom designed jigs



Balance Tools

Component Balance Tool

(Part No. TL11001)

The Trilift® Component Balance Tool has been developed to assist in the removal of components such as track rollers, haul truck axle's and inspection covers. The Trilift® Component Balance Tool is easily mounted to the top of the Trilift® Belly Pan Hoist. The Trilift® Component Balance Tool is an excellent addition to existing tooling.



The Trilift® Component Balance Tool includes a Track Roller adapter to assist in the removal of track rollers.

This adapter can be easily adjusted to fit a wide range of track rollers. The adjustable red spacers allow for worn rollers to sit accurately in the adapter for safe removal.

The Trilift® Track Roller adapter also allows for a 30° angle adjustment.

The Component Balance Tool also includes an Axle Adapter (Part No. HW75366) to assist in the removal of axle.

Features

- 3 methods of handling:
 - Trilift® Belly Pan Hoist
 - Crane
 - Forklift
- Eliminates manual handling
- Adjustable for range of component weights



Trilift® Component Balance Tool in use with overhead crane to remove a haul truck axle



Trilift® Component Balance Tool in use with forklift



Trilift® Component Balance Tool in use with Trilift® Belly Pan Hoist



Balance Tools

Balance Jig (Part No. TL11300 - see options)

The Trilift® Balance Jig has been designed to assist with the safe installation and removal of the GE electric drive motor armatures, drive axles and similar components from heavy earthmoving and mining vehicles.

This updated design incorporates a removable counter weight to allow the handling of (2) armatures for reduced turn-around time.

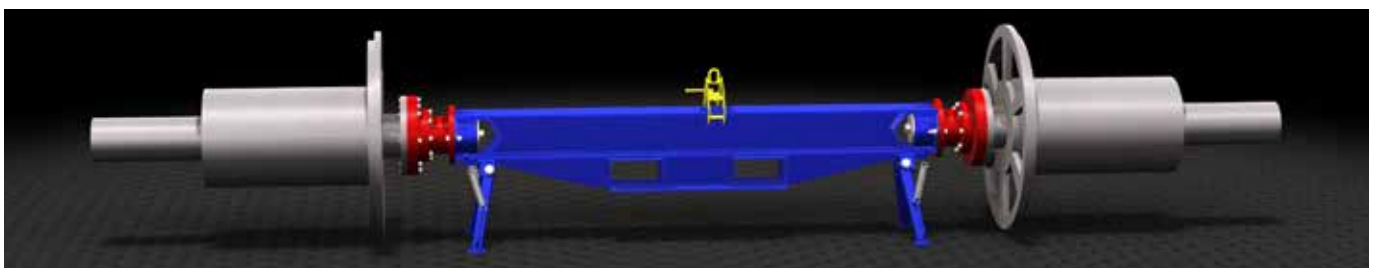
The jig is designed for use on overhead or mobile cranes for support during component installation and/or removal. A sliding girder clamp with locking screw provides adjustable positioning to establish a balance point.

Features

- Total Working Load Limit of 2800kgs/6172lbs
- Rotating flange adapters for bolting an armature to the jig
- Sliding girder clamp with locking screw to establish lift balance
- Retractable legs for jig support when resting on the floor
- Adjustable handle

Options

1. Balance jig with counter weight - [\(Part No. TL11300\)](#)
2. Balance jig without counter weight - [\(Part No. TL11310\)](#)



Trilift® Balance Jig handling 2 armatures



Work Platforms

Variable Height Work Platform (Part No. TL10011A)

The Trilift® Variable Height Work Platform is an air supplied, hydraulically operated apparatus and has been designed for use by maintenance personnel to provide a simple and safe means of servicing rims and wheel nuts particularly within the mining industry.

The work platform is certified to a working load limit of 350kgs/772lbs with variable height adjustments from 425mm to 1525mm.

Includes an articulated jib arm with a working load limit of 100kgs/220lbs designed for attaching a retractable spring balance to provide tooling support.

Features

- Clip on basket for tools, spare parts and wheel nuts
- Anti-slip flooring
- Auxiliary air outlets for use of pneumatic hand tools
- Chassis inclination indicator
- One person operation with ease of mobility
- Hydraulic drive wheel
- Locking swivel wheels
- Hand railing on all four sides with a self-closing, self-locking gate
- Dryer receiver & pressure regulator



Trilift® Variable Height Work Platform in use



Work Platforms

Access Platforms

Our range of Aluminium Access Platforms have been designed and manufactured to provide safe and easy access for personnel to carry out a multitude of tasks at various heights.

Dozer Access Platform (Part No: TL21001A)

This aluminium platform was developed to access the engine bay of both flat and high track dozers. Included is a wide 45 degree stair access to an enclosed work platform.

Truck Access Platform

This platform has been designed to provide maintenance access to haul trucks within the earthmoving workshop.

Maintenance Access Platform

Custom platforms can be designed to suit your needs.



Truck Access Platform

Features

- Convenient and safe access
- Lightweight for ease of movement
- Heavy duty, lockable castors for durability
- Optional retractable wheelbase for platform stability
- Flat-packed for ease of transport

Contact Hedweld for custom Access Platforms

COMING SOON

Variable Height Sliding Stair

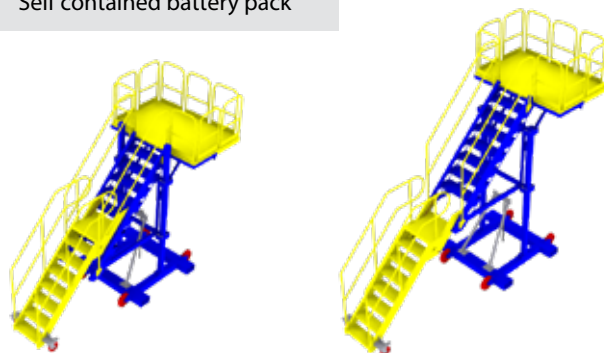
(Part No: TL21500)

The Variable Height Sliding Stair is an electrically actuated unit that has been designed for use by maintenance personnel when carrying out a multitude of tasks at variable heights.

The Variable Height Sliding Stair provides access to components. The platform height ranges from 2192mm to 3267mm. When the work platform is raised the stair and handrails extend to suit the required working height and provides a safer and easier access.

Features

- One stair to access multiple areas / equipment
- Lockable castors
- Simple push button operation
- Removable handrail
- Self contained battery pack





Work Platforms

Combo Lift (Part No. TL10050)

The Trilift® Combo Lift is specifically designed as a multi-purpose person lift and component handling trolley. With dual hoist capability the Trilift® Combo Lift is designed for the installation & removal of components on Kress Haulers.



Features

- 2 power options available: pneumatic or diesel
- Suitable for handling accumulators, steering cylinders, steering linkages, towing lugs, steering brackets and more (Kress Trucks)
- Working load limit of 400kgs/882lbs (with personnel)
- Work platform height to 1500mm with hoist table to an additional 1100mm
- Available with a range of jigs



Positioning Trilift® Combo Lift



Positioning accumulator jig



Accumulator in Jig



Engine Lifting Beam

Engine Lifting Beam

(Part No. TL11200)

The Trilift® Engine Lifting Beam has been developed to assist maintenance crews in handling engine modules up to WLL 22T.

The lifting beam is specifically designed to resolve the challenges faced when handling this large component. It is supplied complete with chains and shackles for the retaining of the engine module.



Features and Benefits

- For use with an overhead crane
- Safety chains and shackles supplied



Contact Hedweld for custom Lifting Beams



Trilift® custom built
Pump Crane

Custom Products

Custom Products

Upon request Hedweld can design & manufacture custom solutions for your component handling requirements. From handling the smallest cutting edge up to a complete engine frame.

Some examples are the Trilift® Pump Crane (see picture above), Fixed Height Work Stands, Steel Rope Clamps and Universal Quick Hitch.

The team at Hedweld offers:

- Mechanical engineering and certification
- Design drafting
- Fabrication and assembly
- Factory testing.

Our highly skilled engineers and robot operators will discuss your production needs, design an efficient process and jigs to ensure you get the most out of our technologically advanced general fabrication capabilities.

Hedweld have expertise in:

- ✓ Beamline Laser Processing
- ✓ Steel Plate Plasma & Oxy Cutting with bevel and K cutting capabilities
- ✓ Laser Cutting
- ✓ CNC Machining
- ✓ CNC Turning
- ✓ Robotic Welding
- ✓ Pipe Bending and Rolling
- ✓ Guillotining / Cropping
- ✓ Press Brake and Pan Brake
- ✓ Power Pressing
- ✓ Design & drafting solutions including prototypes, tooling and jigging.



Fixed Height Work Stands



Steel Rope Clamps
for Draglines





Custom Products

Universal Quick Hitch

(Part No. TL11100)

The Trilift® Universal Quick Hitch has been developed to handle cylinders of various sizes by conveniently attaching to IT/Tele Handlers. Incorporating clamp and rotate functions allows easy access to most cylinder locations.

Can be adapted to most makes and models of quick hitch upon request. Works in conjunction with the Trilift® Universal Cylinder Clamp (Part No. TL02006) and the Rear Suspension Link Jig (Part No. TL02120).



Features

- Working Load Limit capacity of 2500kgs/5512lbs at maximum reach of Cylinder Clamp TL02006
- Simple quick attachment to IT or Tele Handler
- Adjustable jib length
- Positive and firm restraining of the cylinder enables it to be tilted to various angles for removal or installation to difficult locations
- Wire rope clamp, which can restrain cylinders of varying sizes 350mm to 500mm



The Trilift® Universal Cylinder Clamp removing cylinder when attached to the Trilift® Universal Quick Hitch



Onsite Training

Getting the most out of your Trilift® products

Investing in the Trilift® range of specialised tooling is smart but training is equally important to ensure that it is utilised safely and to its full potential, delivering your site a quick return on investment.

Training is carried out by a Hedweld authorised trainer. Onsite training consists of both classroom theory and maintenance workshop practical training and assessment. Best results are achieved when there is suitable equipment in your workshop. This allows the your team to be competently trained and any questions answered on the spot.

Upskill your internal team with our Train the Trainer program.

Training is conducted over multiple shifts with a maximum of 8 participants per session. Certificates of Competency are provided to participants upon successful completion.

Spare Parts

Hedweld's Spare Parts Interpreter is able to assist you when ordering the parts you need.

It is our commitment to customers that spares in stock will be dispatched the same or next day, on your transport.

Hedweld also have spare parts available in our Mackay, QLD branch to ensure customers in that region obtain parts quickly.

If you require an electronic copy of an Operating Manual these can be ordered through Spare Parts.

Critical Spares

When you need to maintain or repair your Trilift® and/or Safe-Away® products it is important that you have critical spares available in your store. Our helpful team can provide you with a list of critical spares. We design and manufacture our equipment to minimise the variations of parts required onsite.

Spare Parts can be contacted weekdays on email at spareparts@hedweld.com.au

Servicing & Technical Support

Hedweld can provide servicing and technical support for our equipment.

Please contact Hedweld on **enquiries@hedweld.com.au** for more information.



Safe-Away® product range

Hedweld also manufactures and supplies the Safe-Away® product range of ladder and stair access systems providing innovative and technologically advanced access options specifically designed for the mining and earthmoving industries.

The Safe-Away® designed and manufactured range of access systems offer improved safety for maintenance and operational personnel accessing and egressing from mining and heavy earthmoving vehicles. Access solutions are available for most makes and models of trucks, dozers, loaders, graders, scrapers, shovels, excavators and drill rigs.

To keep pace with the ever changing developments in heavy machinery design, Safe-Away® works closely with Original Equipment Manufacturers (OEMs) to custom design new and innovative products to make vehicle access safer and more time efficient. Safe-Away® has gained recognition as a supplier of reliable access equipment to OEMs globally.



EL-CF electric ladder on WA600



Model SWING Ladder shown fitted to a dozer



RTV-S shown fitted to a truck

For more information on Hedweld products visit

www.hedweld.com.au

Search by OEM vehicle type to discover the right Trilift® and Safe-Away® products to suit your business.

Also manufacturers and suppliers of:

 **SAFE-AWAY®**
Ladder and Stair Access Systems

Contact Information

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**SAFETY
EFFICIENCY
INNOVATION**



The Trilift® range of component handling equipment is designed to minimise workshop area required and maximise efficiency and safety when handling components.