



Makin' the Hard Jobs

HTC HIRE BOOK



HTC has been creating specialised tooling solutions for New Zealand industry for over 45 years.

Specialists in 700 bar hydraulics, HTC offers more than 45 years of experience in the supply and application of high pressure hydraulic equipment. HTC sources and supplies solution-based tools and equipment for electrical contracting, railway, construction, engineering and drainage industries.

With branches in Auckland and Christchurch, HTC offers equipment sales, service, repair, calibration and tool hire.

“

We are passionate about making the hard jobs easier for our customers. Call us today to see how we can help with your next project.”

Robb Huskinson
Owner/Director



The Trusted Name Behind
New Zealand Industry

HTC's Promise to You

01

We do not charge for days in transit.

02

24 Hour call out service.

03

Try innovations before purchasing.

04

Technical Solutions to keep your job running.

05

Contract rates, talk to us for the right tooling for your project.

06

We remember when your gear needs servicing and send you reminder letters.

07

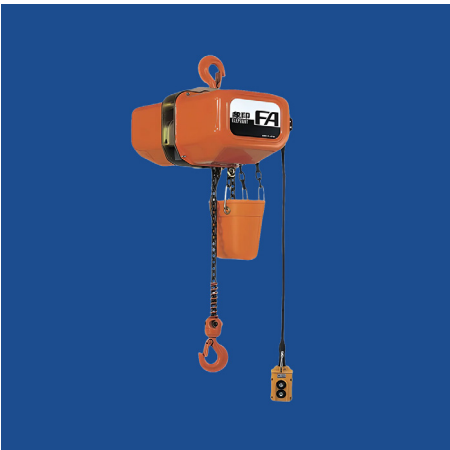
Overnight courier service available to almost anywhere in NZ.

08

More options off the shelf than any other supplier in our industry.



HTC.CO.NZ



HTC Hire Rates

When you hire a tool for over 6 days our team will calculate a discounted rate based on the length of the hire. HTC hire rates usually reduce as the term of the hire increases. Once the hire period rolls into a second month, the deal can get even better.

We understand that you don't always know how long a job is going to take. Talk to our team about projected project times and actual day's usage of equipment. At HTC we aim to accommodate days when tools are not used by offering stand

by rates and contract rates for long term hire. We don't usually charge for transit time for out of town customers.

HTC Damage Waiver

HTC Damage Waiver aims to reduce a client's financial liability during the hire of HTC's equipment. Which means it can help you avoid meeting the cost of unexpected damage of hire equipment.

HTC Damage Waiver is an agreement to cover 'loss of use'. It covers you against the cost of repair for accidental damage to equipment, replacement value, salvage costs & hire charges incurred during repair/replacement if the equipment is damaged.

It's important to know Damage Waiver does not cover against loss, theft or malicious or negligent damage. The client is responsible for the correct use, maintenance and safekeeping of HTC's equipment during the hire period.

Damage Waiver is a non-refundable fee of 10% of the hire charges for the equipment and billed on the hire invoice in addition to your hire charges. The Damage Waiver Excess is limited to no more than \$1000 for accidental loss or damage.

HTC Parts & Services

HTC's in-house specialist fitters are trained to provide fast, reliable and economic repairs and scheduled maintenance for your hydraulic tools and equipment.

Common parts are stocked for most products we hire and sell, which means you get your gear back quicker. Worried about keeping your current projects progressing while your gear is being serviced?

HTC offers discount hire rates when your own tools and equipment are being serviced by our specialist fitters.

HTC also supply seal kits, hoses, couplers, gauges, hydraulic fluids, coolants, cutters, punches, compression dies and a large range of other spares and accessories.

The skillsets of HTC's Specialist Fitters go beyond repairs and scheduled maintenance. Our team can also create bespoke engineering solutions for your projects.

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Air Lifting Bags

25 Tonne Durapac KPL Series Kevlar Power Lift Airbags

Metal parts are solid brass. The bags are thin, light and simple to use. Bags can be stacked safely on top of each other thanks to the special dimpled surface.



Anchor Bolt & Rebar Testing

Hydrajaw M2000 Anchor Bolt Tester Up to 25kN With Analogue Gauge

The Hydrajaws M2000 PRO Tester Kit anchor tester contains a universal set of adaptors enabling a comprehensive range of fixings and safety-critical applications, up to a maximum tensile load of 25kN to be tested.



Anchor Bolt & Rebar Testing

Hydrajaw M35+ Anchor Bolt Tester Up to 65kN With Digital Gauge

The Hydrajaws M35+ introduces cutting-edge 'Easy-Effort' technology, setting a new standard in the efficiency of applying torque for mechanical anchor pull testing.



Anchor Bolt & Rebar Testing

Hydrajaw M2008 Anchor Bolt Tester Up to 145kN With Digital Gauge

The Hydrajaws M2008 Heavy Duty Tester Kit features a built-in digital gauge for testing a wide range of anchors. Its hollow centre supports barrel and wedge testing of deformed rebar, delivering portable proof load testing up to 145 kN.



Bevel Machines

EKF 450.3 Plate Chamfering Machine

The EKF 450.3 Plate Chamfering Machine is designed to bevel 45° weld seams on steel, stainless, nonferrous metals, brass, and plastics.



Bevel Machines

SKF 25 Portable Beveling Machine

The SKF 25 portable beveling machine is designed for precise weld preparation with chamfers up to 15 mm and adjustable angles from 15–60° on steel, stainless steel, aluminum, and nonferrous metals.



Breakers & Tampers



Red Hawk Petrol Tamper

This multi-purpose tool is used extensively in the rail industry for tamping ballast/ties.



KV19 Hydraulic Breaker

Professional, compact hydraulic breaker for efficient concrete, rock, and asphalt demolition with reduced operator fatigue.



MH1810 Electric Breaker

For precision depth control and straight line cutting from a standing position.

Breakers & Tampers

TA54103 Hydraulic Pole Tamper

Ideal for soil compaction around utility poles, signs and fence posts.



Breakers & Tampers

Ballast Tamper RCT 1500 P

Ideal for efficient ballast tamping and compaction in railway maintenance applications.



Cable Cutters

P100A Hydraulic Remote Head Cutter 100mm Max

Cuts quick & easily through non-ferrous cables. This cutter requires a hydraulic pump and hose to operate. The pump can be either manual, electric, or pneumatic.



SPA55 ACSR Hydraulic Head Cable Cutter 50mm Max

Useful all-round cutter for cables, wire ropes & ACSR. Lightweight, portable and powerful. This cutter requires a hydraulic pump and hose to operate.



S550 ACSR 54mm Hand Cable Cutter



CC75 75mm Hydraulic Cable Cutter Head



REC S540 Battery Operated Cable Cutter

Cable Pulling & Handling



The Bulldog Original Bender

This compact hand bender delivers fast, accurate, and repeatable bends on heavy-gauge conductors up to 500 MCM.



Cable Sock

For utility, triplex, fibre optic, low voltage and high cable pulling.



Cable Grip

Designed for pulling bare copper cable, wire rope, trolley cable and messenger wire.



Cable Roller

Designed to guide and support cable and reduce pulling friction.



Cable Grip

Helps eliminate winding and tangling of rope and cable during pull.



Drum Roller Ramp

The only ramps on the market with a safety bar to ensure the drum can't roll backwards.



Hearthill Electric Blower Box Kit

A high-volume, low-pressure conduit-blowing system ideal for stringing draw-lines in long cable runs.



Trench Manhole Roller Guide 90°

heavy-duty 90° corner roller guide for cable pulls up to 150 mm in manholes, trenches, and cable installations.



Duct Snake

Compact and versatile snake used for pulling back haul rope or cable directly.



Load Cell

Available in 2T, 5T, and 10T capacities. Accuracy: +/- 0.2% of capacity. Unit weight: 7 kg.



Analogue Dynamometer

Available in 1T, 2T, 2T Large Display, 3T, and 5T capacities. Accuracy: +/- 3% of full scale. Compact, lightweight, and rugged construction.

Scissor Lift 2000kg

A heavy-duty cable-drum jack set with a 2,000 kg working load limit, designed for lifting and supporting large reels on NZ sites.



Portable Reel Buck 450kg

Durable, portable solution for quick and easy setup of strand and cable reels up to 54 inches in diameter, ideal for demanding job site applications.



Scissor Lift 500kg

The Hearthill SLS Series Drum Scissor Lifts are engineered for easy transport and manoeuvrability. Each unit includes two wheeled stands, a pair of drum collars, a ground joining bar for added rigidity, and a certified load-bearing drum spindle.



Pipe Manhole Cover Lifters

Wheeled Folding Lever

Versatile wheeled folding lever, designed for use with DOA cover lifters and their accessories in demanding operations and opening of heavy manhole covers with minimum effort and maximum safety.



CL11 Curved Base Magnetic Manhole Lifter

Universal magnetic lifter with curved base to ensure the best magnetic adhesion on the circumference of circular manhole covers also with "filling" cast iron frame and in asphalt / stone / cement with central metal disc.

Concrete Tools

DC22 - Concrete Saw with SC40 Trolley

DC20 and DC22 cut off saws with disc capacity 450 and 500 mm.

For cutting reinforced concrete asphalt and building materials in general.



Remote Head Crimping

**60 Tonne
Compression Tool
700 Bar Single Acting**

Used for applying compression fittings to copper, aluminium, ACSR and various other cables and conductors.



**12 Tonne Compression Tool
700 Bar Single Acting**

22 Tonne Compression Tool 700 Bar Single Acting

25 Tonne Compression Tool 700 Bar Single Acting

60 Tonne Compression Tool 700 Bar Single Acting

100 Tonne Compression Tool 700 Bar Double Acting



**Hydraulic Switchboard
Mover - 1800kg**

The 1800kg Hydraulic Switchboard Mover from HTC is designed to safely transport and position heavy switchboards, EV charger cabinets, UPS units, control panels, and other cabinet-style equipment in areas where forklifts cannot operate.

Hand Crimping Tool

**12 Tonne Hand Compression
Tool**

This tool was designed for the electrical contractor and electric utility lineman who is confronted with larger cable diameter and larger connectors.



Battery Powered Crimping

12 Tonne Battery Crimp Tool

Includes Battery & Charger

Battery operated 12 tonne compression tools use standard 12 tonne dies for applying compression fittings to copper, aluminium, ACSR and various other cables and conductors.



15 Tonne Battery Crimp Tool

Includes Battery & Charger

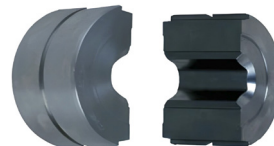
Battery operated 15 tonne compression tools use dies for applying compression fittings to copper, aluminium, ACSR and various other cables and conductors. This tool uses either specific 15 tonne dies or can use 12 tonne dies with an adaptor.



12 Tonne Die Set



25 Tonne Die Set



60 Tonne Die Set



100 Tonne Die Set

Permanent Magnet Cover Lifters

Powerful magnets to be used in combination with folding levers APS90 – APS80, with trolley LK70, with mini excavators and cranes, for lifting very heavy ferrous manhole covers.

Pacific Lifter Trolley 300Kg/PST300

A hydraulic lift trolley with foot-operated lifting, controlled lowering, and built-in safety guards for safe, easy material handling.



Crimping Dies

Code	Tonnes	Common Size (mm ²)	Type	A/F Size (mm)
38-XXX CU Flat	12/22	16/220	Flexible	14/17
38-63-CU	12/22	16	Copper	6.3
38-77-CU	12/22	16/25	Copper	7.7
38-92-CU	12/22	35	Copper	9.2
38-104-CU	12/22	50	Copper	10.4
38-115-CU	12/22	70	Copper	11.5
38-142-CU	12/22	95	Copper	14.2
38-165-CU	12/22	120	Copper	16.5
38-183-CU	12/22	150	Copper	18.3
38-200-CU	12/22	185	Copper	20.0
38-231-CU	12/22	240	Copper	23.1
38-260-CU	12/22	300	Copper	26.0
38-132-AL	12/22	50/70	Aluminum	13.2
38-173-AL	12/22	95/120	Aluminum	17.3
38-220-AL	12/22	150/185	Aluminum	22.0
38-284-AL	12/22	240/300	Aluminum	28.4
CDA-3	12/22	25/35	Aluminum	12.4
CDA-4	12/22	35/50	Aluminum	13.75
CDA-5	12/22	70/120	Aluminum	17.9
CDA-6	12/22	95/150	Aluminum	22.0
CDA-7	12/22	150/185	Aluminum	25.4
CDA-8	12/22	240	Aluminum	28.2
CDA-9	12/22	300/400	Aluminum	32.3
CDS-8	12/22	150	Steel	12.7
22T/400	22	400	Copper	18.1
22T/500	22	500	Copper	31.0
40-25 Flat	60	N/A	Flexible	N/A
40-185-CU	60	150	Copper	18.5
40-231-CU	60	240	Copper	23.1
40-260-CU	60	15-/300	Copper	26.0
40-281-CU	60	400	Copper	28.1
40-310-CU	60	500	Copper	21.0
40-340-CU	60	1/2 Hex/240	Flexible	34.0
40-370-CU	60	630	Copper	37.0
40-410-CU	60	1/2 Hex/400	Flexible	41.0
40-220-AL	60	185	Aluminium	22.0
40-283-AL	60	300	Aluminium	28.3
40-390-AL	60	400/500	Aluminium	39.0
40-432-AL	60	630	Aluminium	43.2
DS7	60	150	Steel	10.11
DS8	60	240	Steel	12.70
DS9	60	300	Steel	15.11
DS10	60	400	Steel	16.05
DA7	60	150/185	Aluminium	25.43
DA8	60	240	Aluminium	28.19
DA9	60	300/400	Aluminium	32.33
DA10	60	400	Aluminium	36.22
DA11	60	500	Aluminium	40.21
DA12	60	630	Aluminium	45.72

Code	Tonnes	Common Size (mm ²)	Type	A/F Size (mm)
DA7-100	100	150/85	Aluminium	25.43
DA8-100	100	240	Aluminium	28.19
DA10-100	100	400	Aluminium	36.22
DA11-100	100	500	Aluminium	40.21
DS7-100	100	150	Steel	10.11
DS8-100	100	240	Steel	12.70
DS9-100	100	300	Steel	15.11
DS10-100	100	400	Steel	16.05
DA10/10W	100	400	Aluminium	36.22
DA/100W	100	630	Aluminium	45.72
DA11/100W	100	500	Aluminium	40.21
DS10/100W	100	400	Steel	16.05
DA14/100W	100	ACSR/CHUKAR	Aluminium	53.87
40-400 AL	60	Oxygen	Aluminium	40.0
40-345 AL	60	Nitrogen	Aluminium	34.5
40-445AL	60	Selenium	Aluminium	44.5
40-475 AL	60	Sulphur	Aluminium	47.5
40-285 AL	60	Neon	Aluminium	28.5
475AL/100W	100	Sulphur	Aluminium	47.5
445AL/100W	100	Selenium	Aluminium	44.5
345AL/100W	100	Nitrogen	Aluminium	34.5

AAAC Crimping Dies

Code	Description	Type	A/F Size (mm)
40-400 AL	60 Oxygen	Aluminium	40.40
40-345 AL	60 Nitrogen	Aluminium	34.5
40-445 AL	60 Selenium	Aluminium	44.5
40-475 AL	60 Sulphur	Aluminium	47.5
40-285 AL	60 Neon	Aluminium	28.5
100-475 AL	100 Sulphur	Aluminium	47.5

Die Adaptors

Code	Description	Shape
25T-12T	25 - 12 Tonne Die Adaptor	Round
EP60S-12	60 - 12 Tonne Die adaptor	Round
EP100W-60	100 - 60 Tonne Die adaptor	Round
HZ100-60	100 - 60 Tonne Die adaptor	Square

Wire Rope Dies

Code	Description	Shape
R-12A	Huskie Wire Rope Die	1/2" A
R-14AC	Huskie Wire Rope Die	1/4" AC
R-18AC	Huskie Wire Rope Die	1/8" AC
R-316AC	Huskie Wire Rope Die	3/16" AC
R-38-CUT	12 Tonne Cutting Die	
R-38AC	Huskie Wire Rope Die	3/8" AC
R-51058	2 Tonne Grip 5-16mm Wire Rope	
R-516AC	Huskie Wire Rope Die	5/16" AC
R-716A12C	Huskie Wire Rope Die	7/16" AC
R-716C	Huskie Wire Rope Die	7/16" C

Drills/Rotabroaches

Small Mag Base Drill

Medium Mag Base Drill

Large Mag Base Drill

Extra Large Mag Base drills up to 100mm

Small Lightweight/Low Height Mag Drill

Medium Lightweight/Low Height Mag Drill

Annular Cutters from 12mm - 65mm

Battery Mag based Drill

Pipe mag based Drill

Automatic Feed Drill



Battery



Lightweight/Low Height



**Large Mag
Base Drill**



Medium Mag Base Drill



Dillon Quickcheck | Digital Tension Meter

Ideal for cable guardrails, guy lines and overhead wires nothing comes close to the absolute simplicity of design and accuracy of Dillon Quick-Check tension meters.

Dynamometers/Scales/ Tension Meters/Load Cells



Compression Load Cell

Available in 50T capacity.
High accuracy
10kg graduation
Unit weight: 12kg



Digital/Load Tension Meter

Available in 2T, 5T, and 10T capacities.
Accuracy: +/- 0.2% of capacity.
Unit weight: 7 kg.



Analogue Dynamometer

Available in 1T, 2T, 2T Large Display, 3T, and 5T capacities.
Accuracy: +/- 3% of full scale.
Compact, lightweight, and rugged construction.

Gas Detector

MGT-P Four Gas Monitor (Portable Gas Detector)

A three sensor/four channel multi gas detector.



Flange Spreading Equipment

Hydraulic Flange Spreader Kit

includes: 2 x Hydraulic Spreaders, 2 x Hoses, Hydraulic Pump, 2 x 1000 Bar Gauges, 2 x Step Wedges, 2 x Step Chocks



Gauges

Digital and Analogue options available



Hydraulic Fixed Flange Alignment & Rotational Tool

Includes: 2 x Hydraulic Alignment Tools, Hydraulic Pump, Hose, 1000 Bar Gauge & Ratchet Strap



Electric Hoists

G-smartrac endless rope winch, 300kg or 600kg

500Kg Electric Chain Hoist 6m Drop 230V

1000kg Electric Chain Hoist 6m lift, 230v

2000kg Electric Chain Hoist 6m lift, 400V

3000kg Electric Chain Hoist 6m lift, 400V

Lever Hoists

0.8 Tonne Lever Hoist

1.6 Tonne Lever Hoist

3 Tonne Lever Hoist

6.3 Tonne Lever Hoist



Manual Hoists

1 Tonne Chain Block 6m Lift

2 Tonne Chain Block 6m Lift

3 Tonne Chain Block 6m Lift

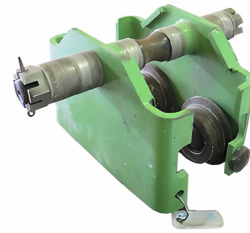
5 Tonne Chain Block 6m Lift

10 Tonne Chain Block 6M Lift

Universal Beam Trolley 1.5 Tonne 74-192mm

Universal Beam Trolley 3 Tonne 100-205mm

Girder Clamps



Gantry Hoists

Portable Gantry – 500kg

Portable Gantry – 200kg

Portable Gantry – 3000kg

Portable Gantry – 5000kg

Aluminium Tripod with Winch



Personnel & Material Lifting and Lowering

Full Body Harness with Confined Space Loops and Quick Release Buckles (M–2XL)

The harness features dual lower sternal webbing loop attachment points and a rear dorsal fall arrest D-ring. This includes a dorsal extension strap to allow quick and straightforward connection — even in confined or awkward access locations.



Hoses

Hydraulic 700 Bar Hoses

Wide range of hoses available.



Hydraulic Hoses - Adaptors

Hi Flo Adaptor

Allows for different couple brands with the same capacities to be inter connected.



Low Pressure Hydraulic Hoses

10m Hoses Available

Get in touch with HTC for more information!



Air Hoses

Air Hoses

Various flow capacities and lengths available



Hydraulic Manifolds and Valving

Check Valves with Bypass

Needle Valves

Valved Manifolds 2 Port

Valved Manifolds 4 Port

Valved Manifolds 6 Port

Y-Branch With ROC-13 Couplers





Bottle Jacks / Jacks

Durapac DBJ Standard Hydraulic Bottle Jacks

The DBJ-Series Bottle Jacks represent a top-tier selection tailored perfectly for a wide array of industrial lifting and pushing tasks. Ranging from 10 to 20 tons, these models include an added screw extension, and the majority are versatile for use in both vertical and horizontal orientations.

Toe Jacks

Durapac DRJ-10 Hydraulic Track Jack

The DRJ-10 Rail Jack is excellently tailored for aligning, gauging, and lifting rail or sleepers. Crafted with a forged aluminum upright base, this jack, with a capacity of 10 tons, is engineered to be sturdy, lightweight, and minimize the chances of operator injury.



Loadskates

5 Tonne Loadskate

12.5 Tonne Loadskate

40 Tonne Loadskate Set (4 x 10 Tonne)

5 Tonne Handle

5 Tonne Turntable

12.5 Tonne Handle

12.5 Tonne Turntable



Low Pressure Equipment

Underwater Chainsaw

Concrete Saw

Petrol Powered LP Power Unit

Low Pressure Hydraulic Pumps

Underwater Grinder

Pole Tamper

Hydraulic Breaker



ALSO AVAILABLE
FOR PURCHASE

Submersible/Trash Pumps

For other models, enquire now
for purchase or hire availability

ALSO AVAILABLE
FOR PURCHASE



Nut Cutters/Splitters

Hydraulic Nut Splitter

Capacities of 13mm to 57mm+
Nut sizes

ALSO AVAILABLE
FOR PURCHASE



Pipe Threading

Wide range of threading machines, table top and hand held.

Plenty of accessories can also be provided, including pipe stand

Roll Groover attachments



Pipe Sealing & Testing

Sava Sealing Plug 70-150mm 2.5 Bar

Sava Sealing Plug 100-200mm 2.5 Bar

Sava Sealing Plug 150-300mm 2.5 Bar

Sava Sealing Plug 300-525mm 2.5 Bar

Sava Sealing Plug 350-600mm 2.5 Bar

Sava Sealing Plug 375- 750mm 2.5 Bar

Sava Sealing Plug 500-800mm 2.5 Bar

Sava Sealing Plug 500-1000mm 1.5 Bar

Sava Sealing Plug 600-1200mm 1.5 Bar

Sava Sealing Plug 750-1500mm (1.0 bar)

Sava Test Plug 70-150mm with 1/2" port

Sava Test Plug 150-300mm with 1" port

Sava Test Plug 300-525mm with 1" port

Sava Test Plug 500-800mm with 2" port

Sava Test Plug 500-1000mm with 2" port

Sava Test Plug 600-1200mm with 4" port

Sava Test Plug 750 - 1500mm 4" Duct

Sava 1.5 Bar Controller

Sava 2.5 Bar Controller

Sava 10m Air Hose

Sava Testing bag 350-600mm Vp 6" bypass

Test Gauge for Pipeline Pressure Testing (20-60kpa)

Sewer line smoke testers

3" Bypass Plug 150mm - 250mm

*** Pipe sealing gear incurs a sanitising charge**



HTC SHUT KIT



Day-to-day problem solving for unexpected job site challenges



Serviced, certified & site-safe equipment you can rely on



Customisable product wish list choose the tools and quantities you require



Flexible hire periods available daily, weekly, monthly, or for the full shut duration



Ready-to-go shut kits packed, checked, secured, and delivered to the supervisor in charge



Support for planned maintenance programs with tailored equipment solutions



CUSTOMISE YOUR TOOL BOX!



Pumps - Hand, Electric & Hydraulic



Torque Equipment - Wrenches & Cassettes



Flat Cylinders



Jacks



Gantry



Chain Blocks & Pull Lifts



Mag Drills



Spanners, Sockets & Floggers



Flange Spreader



Plus many other tools or equipment for your planned maintenance



Pipe Sealing & Testing



Hurco Smoke Tester

The Hurco Pipeline Smoker leak detector with laboratory tested safe LiquiSmoke is the fastest and most economical way of locating leaks in sewer mains.

Pipe Sealing & Testing



eSTEAM Smoke Generator

The ROM eSTEAM Smoke Generator is a powerful and efficient solution designed for testing, inspecting, and locating leaks in drainage and sewer systems.



Test Gauge for Pipeline Pressure Testing



High Flow Bypass Plug



Controllers



Air Hose

ALSO AVAILABLE FOR PURCHASE



Pipe Joint Tester



Pipe Joint Tester

Ready to test with water or air. Capable of testing to 15 psi air or 50 psi water. For testing pipe between 54cm and 299cm

Pipe Testing



Vacuum Test Petrol Pump

Hire the Vacuum Test Petrol Pump, a high-capacity petrol-driven vacuum system designed for manhole and drainage vacuum testing on NZ infrastructure sites.



Pipe Testing

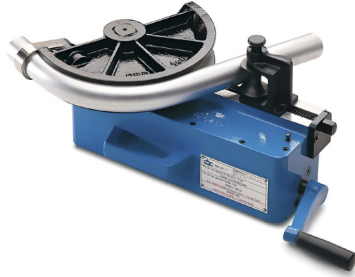
Vacuum Test Head Bladder

A multi-size vacuum test head designed for manhole and sealed-chamber testing, offering fast, secure sealing and accurate measurement for NZ infrastructure work.



**ALSO AVAILABLE
FOR PURCHASE**

Pipe Bending



**UNI-42 Manual Tube Bender
Complete with Stand**



Uni-60 Electric Benders



**Pipe Bender + Shoes Up To
50mm Nominal Pipe**

Pipe Work Accessories

Portable Extraction Fan 300mm

For extraction of dangerous fumes, gases, dust, etc while people are working whether in buildings' tight areas or in a confined space.



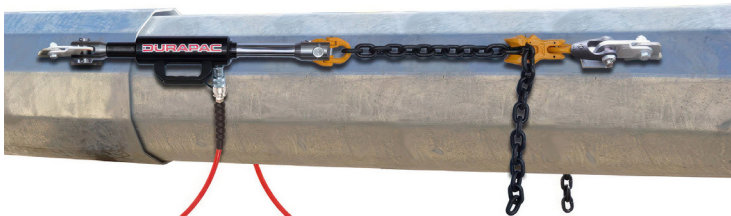
Pipe Work Accessories

Pipe Clamp

A manual pipe squeezing tool designed for compressing polyethylene pipes, of gas and water, with diameters up to mm 63.



Pole Jacking



Pole Jacking

This system was developed collaboratively with industry experts to connect steel power/communication pole sections horizontally before installation.



Power Tools

Makita DRV250LB 18V LXT Cordless HUCK® Tool

Hire the Makita DRV250LB 18V LXT Cordless HUCK Tool from HTC — a high-performance cordless lockbolt tool modified for 3/16" and 1/4" Huck-style fasteners, ideal for remote site bolting, maintenance and assembly across NZ.



Power Tools

Steel Cutting Drop Saw

70Lb Electric Breaker

Reciprocating Saw

Cordless Lockbolt Tool



Pullers

10 Tonne F210I 2 Jaw Long Puller

10 Tonne F210 2 Jaw Puller

10 Tonne CH10 Cross Head

10 Tonne F310 3 Jaw Puller

20 Tonne F220 2 Jaw Puller

20 Tonne F320 3 Jaw Puller

25 Tonne PHP113 Posi Lock Puller

30 Tonne HP351 2 Leg Puller Set (Includes Ram)

30 Tonne HP351 3 Leg Puller Set (Includes Ram)

5 Tonne F35I 3 Leg Long Puller

5 Tonne F35 3 Leg Puller

5 Tonne A132 Chain Cross Head Pull Plate

Bearing Puller, Tri Sectional Durapac ET3-495



30 Tonne 2 Jaw Long Puller



10 Tonne F210I 2 Jaw Long Puller



20 Tonne 2 Jaw Puller



10 Tonne Cross Head

Electric Pumps

1800cc Pump Single Acting 230v

6000cc Pump Single Acting 230v

1800cc Pump Double Acting 230v

6000cc Pump Double Acting 230v

9000cc Pump Double Acting 230v

Riken Pump Single Acting 230v

20L Pump Double Acting 230v

30L Pump Double Acting 3 Phase

8000cc tank, Double acting, 230v

8000cc tank, Double acting, 230v

Battery Powered Hydraulic Double Acting 700 Bar Pump

A high-performance battery-powered hydraulic pump with adjustable pressure control, ideal for testing, jacking, pressing, crimping, and cutting applications.



**MP15 Pump
Double Acting**



**SMP4AR Pump
Single Acting**



**PEM-8424 Pump
Double Acting**

Hydrostatic Test Pumps

Hydrostatic 40 Bar Max Water Test Pump

Hydrostatic 100 Bar Max Water Test Pump

Hydrostatic 700 Bar Max Water Test Pump



Hand Pumps

600cc 2 Speed Hand Pump

1800cc 2 Speed Hand Pump

Single Acting 2 Speed Hand Pump 2000cc

5000cc Double Acting 2 Speed Hand Pump

8000cc Double Acting 2 Speed Hand Pump

2000cc Double Acting 2 Speed Hand Pump



**High Capacity
Hand Pump**



Two Speed Hand Pump



Double Acting Hand Pump

Petrol Hydraulic Pumps

Petrol Hydraulic Pump 700bar

The Durapac PPM2014 petrol hydraulic power unit features a powerful 4 stroke Honda engine. A protection cage makes it easier to handle and provides protection on construction sites.



Pneumatic 6–7 Bar Input 700 Bar Output Pumps

1475cc Air Foot Pump

1500cc Air Foot Pump

3769cc Air Foot Pump



Hydraulic Pump – Manual 0.6L Ultra High Pressure

600cc 29,000 PSI High Pressure Hand Pump

Used for high pressure bearing removal, proof testing, and to power stud tensioners. Includes gauge and ultra high pressure hoses and fittings.



Plate Steel Punches

Diamond Long Reach Punch Unit 220V

Punch & Die Set - Elliptical (Horizontal)

Punch & Die Set - Elliptical (Vertical)

Punch & Die Set

Hydraulic Punches

Punch & Dies Set Steel

Punch & Die Sets Copper

Royal Master Punch and 3 Phase Pump with 110mm reach Max 24mm Dia x 16mm Steel. Max 28mm Dia x 17mm SS400

Royal Master Punch & Die Set

Riken 50 Tonne Punch



Hydraulic Punch



Electric Punch



Hydraulic Punch



Battery Punch



HTC SYNCMASTER

NEW ZEALAND'S LARGEST
SYNCHRONOUS LIFTING SYSTEM



HTC SyncMaster is a synchronised, computer controlled, hydraulic lifting system for lifting bridges, buildings and large machinery.

HTC SyncMaster provides precision control and monitoring of complex lifting applications. Up to 5 power packs can be controlled by one master unit, giving 40 individually controlled cylinder points. Accuracies of $\pm 0.5\text{mm}$ allow the user to set parameters, limits and alarms to comply with engineer's methodology and safety margins.

HTC SyncMaster can in real time monitor and calculate cylinder loads, stroke lengths, total loads and the centre of gravity on large scale engineering and maintenance lifts. It provides a high degree of safety for personnel and property by automatically stopping the lift if set parameters are attempted to be exceeded.

Every configuration, process, alert and operator function is displayed and recorded in real time. This reduces costs by minimising manual control, measurements and comparisons to lift plans. No longer is it necessary to station workers at each lift point to synchronise activity via radio.

Lift data is collected during the lift process and this data can be downloaded for analysis and planning of future lifts.

NUMBER OF LIFTING POINTS

1 – 40

ACCURACY

0.5 mm

MAXIMUM OPERATING PRESSURE

700 bar

FOR LARGE SCALE LIFTS, INCLUDING BRIDGES, BUILDINGS AND MACHINERY, **syncMASTER** IS THE SAFEST, MOST EFFICIENT SOLUTION.



THE SYNCMASTER MULTIPLE POINTS SYNCHRONOUS LIFT SYSTEM ALLOWS FOR UP TO 5 POWER PACKS TO BE CONTROLLED BY ONE MASTER UNIT, GIVING A MAXIMUM OF 40 INDIVIDUALLY CONTROLLED CYLINDER POINTS.

The system constantly monitors cylinder positional and pressure data to safely and effortlessly achieve very accurate and repeatable load movements, regardless of weight distribution or size. One power pack controls up to eight single or double acting cylinders, or groups of cylinders. The 'X', 'Y' and 'Z' coordinates can be recorded for each cylinder, as required by the lift type. DURAPAC cylinder data may be selected from a drop down menu or manually entered for other cylinders. Pressure transducers allow pressure or load limits to be set for an individual cylinder, or for all cylinders. Two linear transducers are available per lifting point to monitor cylinder and load displacement. Full data logging and real time graphical display is available for all lift variables.



TOUCH SCREEN

15 inch full colour touch screen withstands harsh environments. The glass is toughened making it both scratch and cut resistant.



VARIABLE FLOW CONTROL

Variable frequency drive motor gives a wider pump flow range. This is controlled by a joy stick controller that governs flow and directional control of the hydraulic cylinders.



CONTROL VALVES

High cycle, high speed solenoid valves allow precise flow control. All valves are leak free and have a 100% duty cycle.



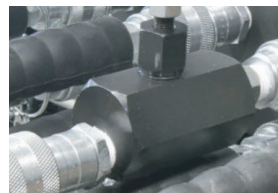
PRESSURE TRANSDUCERS

Monitor load conditions at each lift point for maximum safety. Optional load cells are available for high precision weighing operations.



STROKE TRANSDUCERS

High precision 40 pulse per mm linear transducers combined with high speed counter cards achieve precise positional control. Various stroke transducers are available including internal cylinder design. Optional tilt meters are also available



ADJUSTABLE FLOW CONTROL VALVES

Controls the flow during decent and can be preset and locked.



LIFT MONITORING AND DATA STORAGE

Full pressure and displacement data presentation are available on screen to monitor the lift in real time. Lift data are stored and able to be downloaded in a format suitable for importing into Excel for further analysis and record keeping. This gives a permanent record of the displacement and load on every cylinder at defined time intervals.



One touch screen can control 1-5 sync pumps which can each power 1-8 cylinders. Creating a total potential of 40 lift points



Switchboard/Chassis Punches

Switch Board Punch Kit – Includes Pump, Hose & Ram

Switch Board Punch & Die up to 70mm

Switch Board Punch & Die over 70mm

Rivnut Nutsert Insert Tool M6-M10 600Rpm



**Rivnut Nutsert
Insert Tool**

Switch Board Punch Kit

Rail Gear



Petrol Powered Impact Wrench



Weld Shears



Diesel Grinder



Ballast Tamper



Rail Web Drill



TH70 Rail Tensor

Rail Gear

Rail Saw

Petrol Tamper

Portable Sleepers Drilling Machine

Petrol Powered LP Power Unit

Track Jacks

Track Gauge & Level

Hydraulic Impact Wrench Modified for Rail

Low Pressure Hydraulic Pumps



Portable Sleeper Drill

The FTP 950 M Portable sleeper drilling machine is light-weight and easy to use and has the purpose of quickly drilling wooden rail sleepers, guaranteeing precision and maximum safety for the operator.



**Petrol Powered LP
Power Unit**



**Low Pressure Hydraulic
Pumps**



Track Jacks



**Hydraulic Impact Wrench
Modified for Rail**



Track Gauge & Level



Rapid Rail Cutting Saw



Hydraulic Rail Saw

Hollow Centre Rams

Tonnes	Stroke (mm)	Closed Height (mm)	Centre Hole Ø (mm)	Effective Area (cm)	Weight (kg ²)	Mode Number
12	40	127	19.5	17.86	3	SC1240
12	76	184	19.5	17.9	4.4	RHS123
20	40	165	27.5	28.86	7.8	SC240
20	49	162	26.9	30.7	7.7	RHS202
30	64	178	33.3	46.6	10.9	RHS302
30	155	330	33.3	46.6	21.8	RHS306
60	76	247	53.8	82.3	28.1	RHS603
60	153	323	53.8	82.3	35.4	RHS606
100	76	254	79.0	133	63	RHS1003
150	203	349	79.5	204.1 push/ 102.6 pull		RHD1508



Hollow Rams

4–10 Tonne Rams

Tonnes	Stroke (mm)	Closed Height (mm)	Centre Hole Ø (mm)	Effective Area (cm)	Weight (kg ²)	Mode Number
4	15	44	41	6.42	0.6	RO415
4	30	60	41	6.42	0.8	RO430
4	127	252	39	6.42	1.9	SO4127
5	25	110	38.1	6.5	1.0	RC51
5	76	165	38.1	6.5	1.5	RC53
10	105	172	57	14.4	30	C104C
10	15	44	70	14.52	1.1	LJ115
10	11	445	14.4	14.4	1.1	RLS503
10	150	300	57	14.52	63	S1150
10	300	471	57	14.52	7.4	S1300
10	55	130	57	14.52	2.1	S155
10	26	89	57	14.5	1.8	RG101
10	38	88	69	14.5	4.1	RLP101



Pancake Jack



Flat Jack Rams

20–30 Tonne Rams

Tonnes	Stroke (mm)	Closed Height (mm)	Centre Hole Ø (mm)	Effective Area (cm)	Weight (kg ²)	Mode Number
20	15	52	88	30.19	2.1	LJ215
20	50	160	86	33.18	5.8	S250
20	126	271	86	33.18	10.2	SJ2126
20	45	96	92	28.6	5	SCS201
25	102	216	86	33.2	8	C254C
25	210	324	86	33.2	12.2	RC258
30	62	117	101	42.1	6.8	RLP302
30	8	34	112	46.56	2.6	LF310
30	13	58.7	95.3x114.3	41.9	3.9	RLS300
30	15	58	105	46.56	3.5	LJ315



Locking Collar With Swivel Cap

Can also be used for anchor testing. Please confirm the specifications needed with Staff at time of Hire.

50–250 Tonne Rams

Tonnes	Stroke (mm)	Closed Height (mm)	Outside Ø (mm)	Effective Area (cm)	Weight (kg ²)	Mode Number
50	150	387	128	71.63	31.5	D5150
50	15	65	132	72.38	6.4	LJ515
50	60	127	128	62.0	10.5	RSS502
50	25	100	128	71.63	9.4	S525
50	50	206	128	71.63	13.8	S550
50	154	300	128	71.63	26.5	SJ5154
50	150	264	125	70.9	25	RSLC-506
50	60	122	124	62.1	10.9	RLP502
50	50	164	125	70.9	15	RSLC502
70	25	130	150	102.69	16.5	S725
90	15	85	178x153	126.7	14.5	RM1000
100	25	100	175	133.3	16.9	RJ1001
100	260	428	158	133	51.2	C10010
100	150	286	175	132.7	45	CGG10P150
100	150	287	165	132.7	48	CLL1006
100	57	140	169	126.6	21.4	RA1002
100	152	270	203	133	23	AR1006
100	159	298.5	187.3	133	22.6	RA1006
100	57	141	165	126.7	22.7	RPL1002
100	10	30	145	69.4	4.5	SV11Y100
200	150	473	241	285.3 push/ 139. pull	130	D20150
250	150	335	275	366.2	136	RDHG-250

Explore more options available from HTC. Contact our team today.

Pull Rams

150mm Stroke Pull Ram — RAP106

150mm Stroke Pull Ram — RAP206

The Durapac RAP-206 is a single-acting hydraulic cylinder designed for reliable and efficient performance.



Locking Collar Rams

Tonnes	Stroke (mm)	Closed Height (mm)	Outside Ø (mm)	Effective Area (cm)	Weight (kg ²)	Mode Number
100	50	137	175	146.8	26	RPLC-1002
50	50	164	125	70.9	15	RSLC-502
100	150	287	165	133	48	CLL-1006



Double Acting Rams



Lightweight Aluminium



Low Profile



Double Acting Rams

Ram Attachments

Wide range of attachments available, contact your HTC representative for more information



1 Tonne Wedge Ram



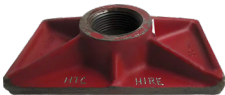
10 Ton R113 120mm Extension



10 Ton R103 Vee Base



10 Ton R104 Vee Head



10 Ton R106 Flat Base



1 Tonne Wedge Ram



10 Ton CB10 Round Flat Base



20 Ton R205 Toe Lift

Ram Wedge

1 Tonne Wedge Ram

2 Tonne Wedge Ram

DHS-15 Wedge Ram



Rebar Benders

Large range of heavy duty table rebar benders

Rebar bender/straighteners

Jimmy benders- used for bending bars and starters in situ.

Rebar Bender/Straightener For 620N/mm² 32mm



Table Bender



Rebar Bender



Bender 32mm

Rebar Cutters



Cordless Rebar Cutter



Rebar Bender Cutter Kit



Battery Tipped Saw Cutter



32mm Rebar Cutter



Electric Rebar Cutter



16mm Rebar Cutter

Rebar Cutters

Rebar Cutter Max 32mm 230V

Hire the Ogura Rebar Cutter 32 mm (HBC-232) from HTC — a heavy-duty electric cutter built for clean, fast cuts through high-tensile reinforcement bar.



Recycling Gear

Recycling Cutter

The Recycling Cutter – Hydraulic are powerful cutters that make quick work of most steel frames, electrical cables, car bodies and any other recycling material.

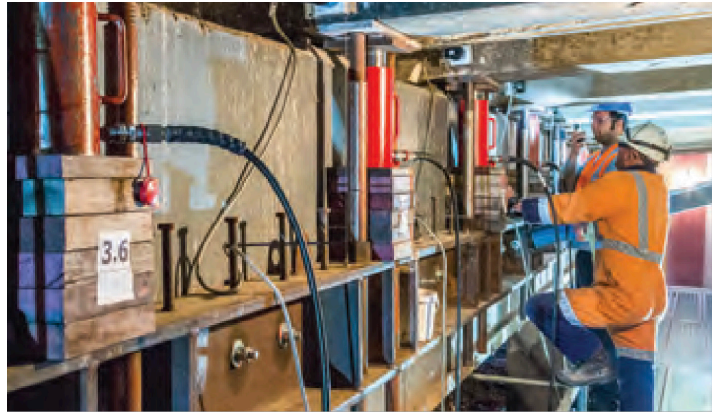


Shims

Cribbing Plates per set of 50mm

Shim Plates 200 x 200 x 20mm thick

Shim Plates 200 x 200 x 2mm thick



Site Support

Generator 2.2 KVA

Generator 3.2KVA

Generator 5.5 KVA



Snakes

Fibre Glass Duct Snake

Wide range of attachments available, contact your HTC representative for more information



Bolting

**Flogging Spanners
/Slugging Wrenches**

Sizes Ranging From 30-65mm



Lighting



TL-100 — Portable Rechargeable Light Tower 1.4m Tall



TL-200 — Portable Rechargeable Light Tower 2.3m Tall



PT-200 — Portable Pan-tilt Light with Remote Control & Magnetic Base



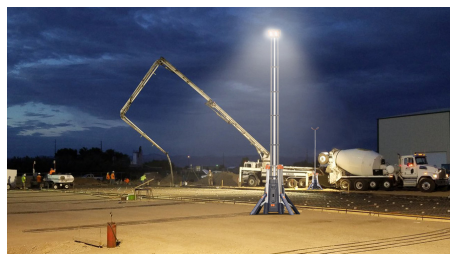
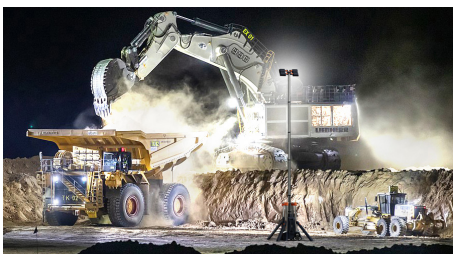
TL-400 — Portable Rechargeable Light Tower 2.2m Tall



PL-300 — Portable Rechargeable Light Tower 3.4m Tall



TL-500 — Portable Rechargeable Light Tower 5.3m Tall



Post Tensioning

Mono Strand Stressing Jack 25 Tonne

*Includes Tooling for 0.5" Or
0.6" Strand not including
Pump or Hose*



Post Tensioning

Portable Strand Pushers & Strand Feeders

A robust 240V vertical motor-mounted strand pusher designed for fast, controlled installation of 12.7 mm and 15.2 mm strand without modification. Featuring forward and reverse dead-man controls, multiple control options, and a mechanical strand tensioning system, it delivers smooth feeding speeds of up to 150 m/min while remaining portable with dual carry handles.



Post Tensioning

PJM-10-OJ Onioning Jacks

A versatile 10-ton hydraulic onioning jack for forming onion anchors on 0.5" and 0.6" strand. Features interchangeable jaws and a 100 mm spring-return stroke, compatible with hand, battery, air, or electric power packs.



PJM-10DA-OJ Onioning Jacks

A 10-ton double-acting hydraulic onioning jack for forming onion anchors on 0.5" and 0.6" strand. Features interchangeable jaws, a 100 mm double-acting stroke, and compatibility with hand, battery, air, or electric power packs.



Sockets

Socket ¾" Drive Full Range

Socket 1" Drive Full Range

Socket 1½" Drive Full Range

Socket Set 1" Drive 15 PC 32-80mm



Hydraulic Torque Wrenches

POWERHEAD LPC4 585-5858Nm

LPC4 36mm Cassette

LPC4 41mm Cassette

LPC4 46mm Cassette

LPC4 55mm Cassette

LPC4 34mm Cassette

LPC4 50mm Cassette

LPC4 60mm Cassette

LPC4 65mm Cassette

LPC4 1 5/8" Cassette

LPC4 1 7/16" Cassette

LPC4 2" Cassette

LPC4 2 3/16" Cassette

LPC4 2 3/8" Cassette

POWERHEAD LPC8 1,094-10,941Nm LPC8

LPC8 - 2 ¼" Cassette

LPC8 - 3 ½" Cassette

RIGHT ANGLE SQUARE DRIVE

¾" Drive Hydraulic Wrench (166-1937Nm)

1" Drive Hydraulic Wrench (363-4237Nm)

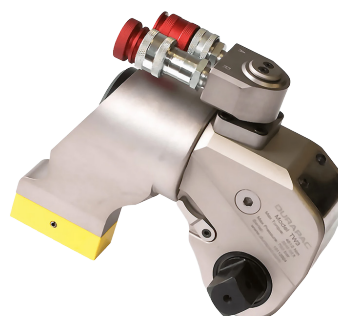
1 ½" Drive Hydraulic Wrench (708-10,813Nm)

1 ½" Hydraulic Wrench (1,315-15,516Nm)



PowerHead LPC4

Torque Cassette Drive Head – LPC4 5858Nm



Hydraulic Wrench

Torque Wrench – Hydraulic 1-1/2" DR 7500NM

Torque Wrench Pumps

Torque Wrench Pump – Pneumatic

Torque Wrench Pump – Electric

Torque Wrench Pump – Battery



Pneumatic



Electric



Battery



Induction Heater

Used to super heat Ferrous objects, like a Gas plant but without the flames! Most often used for seized bolts and for brazing applications.

Torque Tools

RAD 10GX-NX ¾" DR 272-1360Nm

CLD 155 1" DR 1730Nm

CLD2/80 1" DR 800-2800Nm

RAD 25GX-NX 1" DR 680-3400Nm

CLD2/300 1" DR 385-3595Nm

RAD 34GX 1" DR 1355-4600Nm

RAD 50 1 ½" DR 2033-6770Nm

Jgun A1 Pneumatic Torque Multiplier 1513Nm

Jgun A3 Pneumatic Torque Multiplier 4174Nm

Jgun A5 Pneumatic Torque Multiplier 6998 Nm



RAD 10GX-NX



CLD 155



Pneumatic Torque Multipliers



Electric Torque Multipliers

**Battery Nut runner 1-1/2" drive
1600-4000Nm**

**Electronic torque multiplier 1-1/2"
drive 2400-6000Nm**

**230V Electric Torque Multiplier
2,000-5,500Nm 1-1/2" Drive**



CNRS400



GST602QE



GNRS402E-CE

Manual Torque Multipliers

Torque Multiplier 1300Nm 5:1

Torque Multiplier 1627Nm 6:1

Torque Multiplier 2700Nm 5:1

Torque Multiplier 4339Nm 18.5:1

1 inch drive 3500Nm

Wheel Nut Tool

Stand Alone Torque Wrench with Multiplier



Wheel Nut Tool



**Torque Multiplier
1300Nm**



**HG20 max torque
3500Nm**

Manual Torque Wrenches

3/8" Drive 5-25Nm - QL25n

1/2" Drive 20-100Nm - 100

1/2" Drive 40-200Nm - QL200mh

1/2" Drive 60-300Nm - 300

1/2" Drive 60-330Nm - 330

3/4" Drive 60-420Nm - QL420n

3/4" Drive 150-700Nm - 4R

3/4" Drive 200-800Nm - 4AR

3/4" Drive 300-1000Nm - 5R

3/4" Drive 700-1500Nm - 5AR

1" Drive 300-1400Nm - QLE1400n



1/2" Drive 40-200Nm



3/8" Drive 5-25Nm



3/4" Drive 60-420Nm



1" Drive 300-1400Nm



Nationwide Calibration & Testing for Tools, Equipment & PPE

HTC is New Zealand's trusted partner for professional calibration and certification services, helping industries maintain safety, accuracy, and compliance across a wide range of tools and equipment. Whether you need a torque wrench certified, a force gauge recalibrated, or your high-voltage PPE tested, our technicians deliver results you can rely on — backed by traceable standards and decades of experience.

Makin' the Hard Jobs Easy

www.htc.co.nz • info@htc.co.nz • 0800 48 2000



See how **HTC** helps keep your tools accurate and your teams safe.



Torque Calibration

From manual wrenches to digital and hydraulic torque tools, we ensure precise fastening every time.



Pressure & Vacuum

Reliable calibration of gauges, transducers, and vacuum sensors across a wide pressure range.



Force Calibration

Accurate measurement of tension and compression with calibrated dynamometers, gauges, and load cells.



PPE & Safety Gear Inspections

Certified inspection and tagging for harnesses, slings, shackles, and lifting gear.



Weighing Equipment Calibration

Precision checks for platform scales, crane scales, and portable weighing systems.



Gas Detection & Environmental Meters

Calibration of single and multi-gas detectors, UV light meters, temperature and humidity devices.



Metrology & Specialty Instruments

If it measures, detects, or protects — we probably calibrate it.



Electrical Safety Calibration

Dielectric testing of gloves, mats, poles, and other liveline PPE to keep workers protected.

Supplying solutions to the New Zealand industry for over 45 years!



The fella behind the counter was very helpful and informative - had the product we required to hire on the shelf with a couple of different options. Flexible for drop off period

Michael @ Fulton Hogan Canterbury



Very good service from team members and always looking to help

Shuk @ CBCivil



Good, fast, and reliable services with plenty of technical advice

John @ Allwest Engineering Limited



Friendly on the phone, and in person. Great knowledge about their gear for hire, eg will make sure you have all the additional required components for your particular job. everything is always ready to pick up, waiting by the door when we get there.

Keegan @ North West Electrical



Friendly staff, great service

Fraser @ Elite Wheel Company



Delivered exactly what I ordered and was despatched quickly

Mike @ Green Kiwi Farm

Supporting Industries Nationwide with Expert Problem Solving



Manufacture & Industrial



Regulatory & Certification



Safety & Inspections



Aerospace & Aviation



Automotive & Motorsport



Electrical Testing & Safety Equipment



Heavy Industry & Engineering



“ The **speed and efficiency** of getting our equipment back tested and certified was **second to none**. ”

Pneumatic Impact Wrenches

Air powered impact wrench ½" Drive

Air powered impact wrench ¾" Drive

Air powered impact wrench 1" Drive



Electric Impact Wrenches

½" Impact Wrench 350Nm

¾" Impact Wrench 588Nm

1" Impact Wrench 1000Nm



Battery Impact Wrenches

XGT Brushless 1" D-handle Impact wrench

Provides 3,150Nm fastening torque and an impressive 4,000Nm nut-busting torque for heavy-duty applications.



Transmission Jacks



Electrical Winches

Electric Cable Puller 2.5 Tonne

Electric Cable puller CW-2500LD
Pull up to 6.4m / min

Electric Cable Puller 3.5 Tonne

Electric Cable puller CW-3500LD
Pull up to 4.2m / min



Manual Winches

1.6 Tonne Tirfor - Wire Rope Puller (20m Rope)

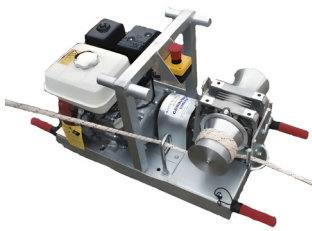
3.2 Tonne Lift Tirfor, 5 Tonne Pull (20m Rope)

Battery Powered

PCW-3000Li Battery Winch (1000kg) - 1.6m/min



Portable Winches



Petrol Twin Capstan
(1000kg) - 25m/min



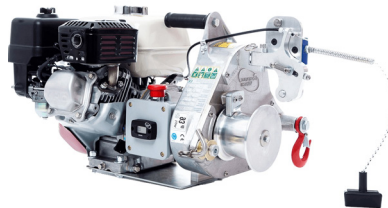
PCW-4000 Petrol Hauling Winch
(1000kg)



APW6000 Battery Powered Winch
(1500kg)



PCW-4500 2 Stroke
(1200kg) - 12.2m/min



PCW-5000 Petrol Powered Winch
(1000kg)



Petrol-Powered PCW4500
(1200kg)

THE MOST POWERFUL BATTERY WINCH ON THE MARKET

The **APW6000** represents the pinnacle of professional-grade winching, purpose-built for those who demand unwavering reliability in the most challenging conditions. It combines rugged performance with the portability required by professionals such as arborists and field operators.



3000LB
PULLING FORCE



4HP
HORSE POWER

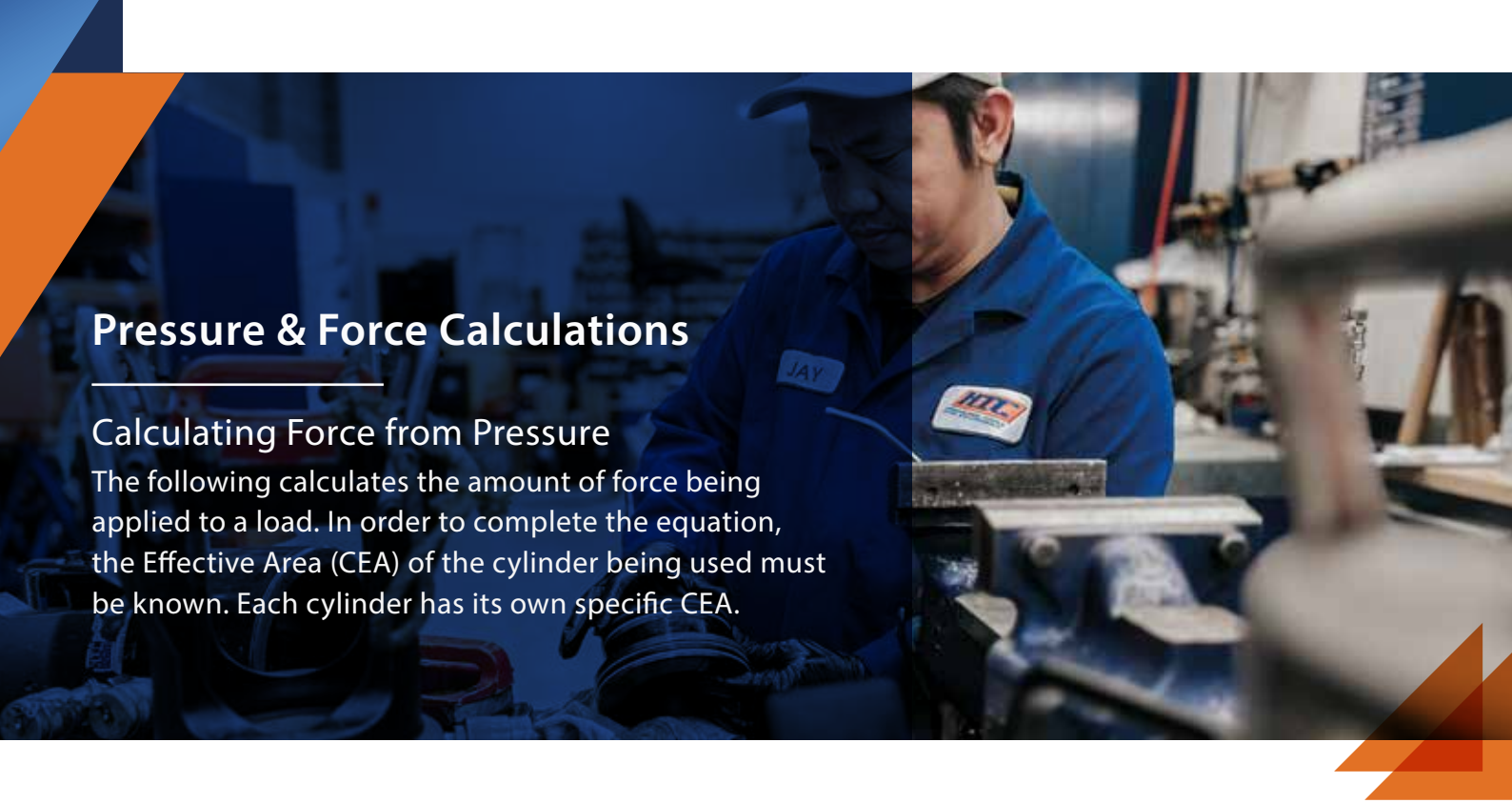


53'/MIN
MAXIMUM SPEED



29LB
WEIGHT
(w/o battery)





Pressure & Force Calculations

Calculating Force from Pressure

The following calculates the amount of force being applied to a load. In order to complete the equation, the Effective Area (CEA) of the cylinder being used must be known. Each cylinder has its own specific CEA.

To calculate kilo newtons using a gauge reading (kgf/cm²)

$$\frac{\text{Applied pressure (kgf/cm}^2\text{)} \times \text{Cylinder effective area} \times 9.81}{1000} = \text{kilo newtons}$$

To calculate kilo newtons using a gauge reading (psi)

$$\frac{(\text{Applied pressure (psi)} \div 14.233) \times \text{Cylinder effective area} \times 9.81}{1000} = \text{kilo newtons}$$

To convert kilo newtons to tonnes, divide by 9.81

Effective area for cylinder used: _____ cm²

CONVERSION FORMULAS

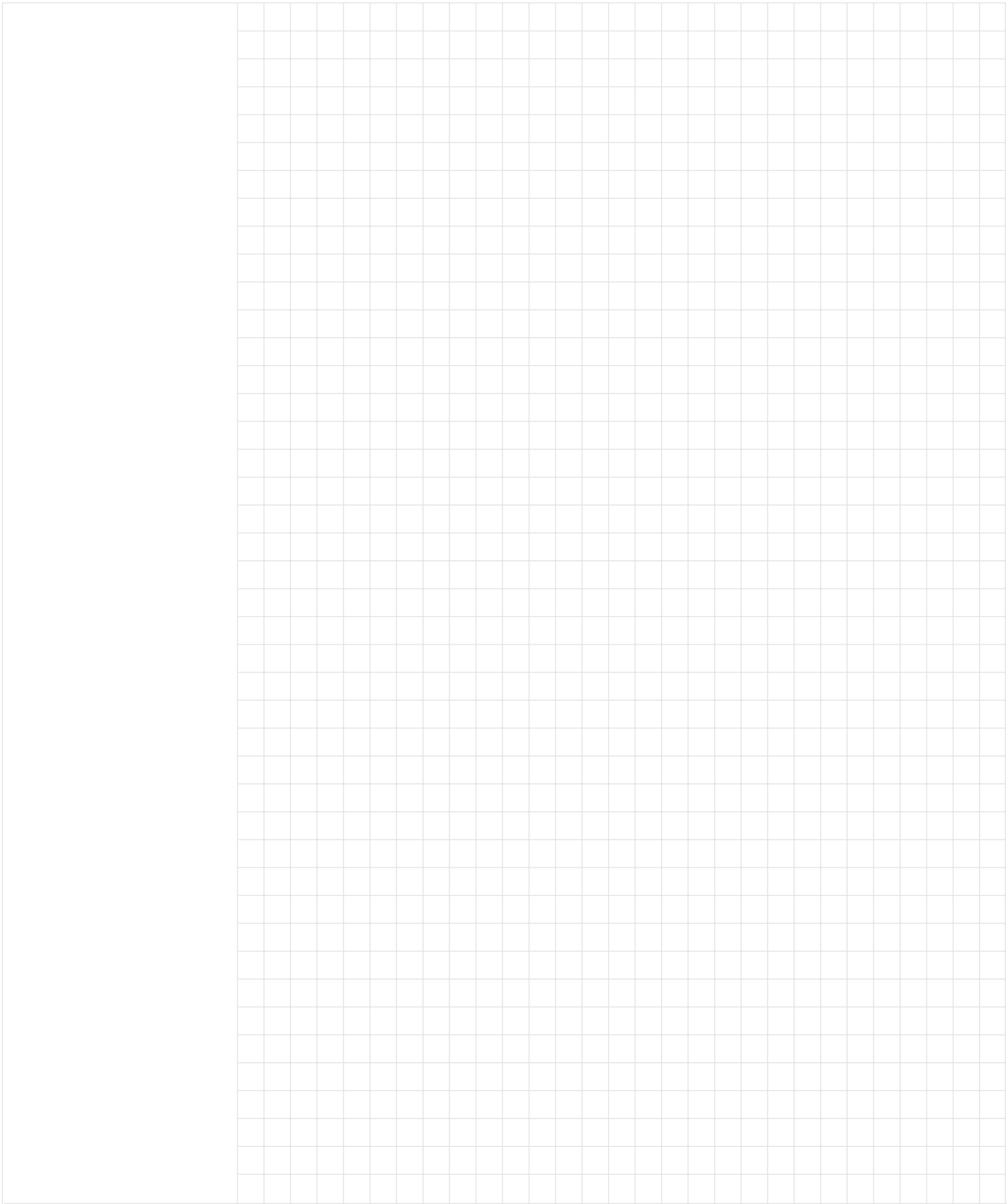
COMMON CONVERSION FORMULAS

SI* CONVERSION FORMULAS

APPROXIMATE CONVERSION

Multiply SI* Unit	By Conversion Factor	To get or Multiply Non-SI Unit	By Conversion Factor	To get SI* Unit
Length				
millimetre (mm)	x 0.03937	= inch	x 25.4	= mm
(1 inch = 25.4mm exactly)				
centimetre (cm) 10mm	x 0.3937	= inch	x 2.54	= cm
metre (m) 1000mm	x 3.28	= foot	x 0.305	= m
metre (m)	x 1.09	= yard	x 0.914	= m
kilometre (km) 1000m	x 0.62	= mile	x 1.61	= km
Area				
millimetre (mm)	x 0.00155	= inch ²	x 6.45	= mm ²
centimetre ² (cm ²)	x 01.55	= inch ²	x 6.45	= cm ²
metre ² (m ²)	x 10.8	= foot ²	x 0.0929	= m ²
metre ² (m ²)	x 1.2	= yard ²	x 0.836	= m ²
hectare (ha) 10,000m ²	x 2.47	= acre ²	x 0.405	= ha ²
kilometre ² (km ²)	x 0.39	= mile ²	x 2.59	= km ²
Volume				
centimetre ³ (cm ³)	x 0.061	= inch ³	x 16.4	= cm ³
litre (l)	x 61	= inch ³	x 0.016	= 13
millimetre (ml)	x 0.034	= oz-liq	x 29.6	= ml (1ml = 1cm ³)
litre (l) 1000ml	x 1.06	= quart	x 0.946	= 13
litre (l)	x 0.26	= gallon	x 3.79	= 13
metre ³ (m ³) 1000l	x 1.3	= yard	x 0.76	= m ³
Mass				
gram (g)	x 0.035	= ounce	x 28.3	= g
kilogram (kg) 1000g	x 2.2	= pound	x 0.454	= kg
metric Tonne (t) 1000kg	x 1.1	= Tonne (short)	x 0.907	= t
Force (N = kg • ms/ ²)				
newtonne (N)	x 0.225	= pound	x 4.45	= N
kilonewtonne (kN)	x 225	= pound	x 0.00445	= kN
Torque				
newTonne metre (Nm)	x 8.9	= lb. in.	x 0.113	= Nm
newTonne metre (Nm)	x 0.74	= lb. ft	x 1.36	= Nm
Pressure				
kilopascal (kPa)	x 4.0	= in. H2O	x 0.249	= kPa
kilopascal (kPa)	x 0.30	= in. Hg	x 3.38	= kPa
kilopascal (kPa)	x 0.145	= p.s.i.	x 6.89	= kPa
megapascal (MPa)	x 145	= p.s.i.	x 0.00689	= MPa
Bar	x 14.5	= p.s.i.	x .0689	= Bar
Power				
kilowatt (kw)	x 1.34	= hp	x 0.746	= kw
kilowatt (kw)	x 0.948	= Btu/s	x 1.055	= kw
watt (w)	x 0.74	= f t. lb/s	x 1.36	= w
Temperature				
°C = (°F – 32) ÷ 1.8	°F = (°C x 1.8) + 32			
Flow				
cu. cm./min.	x 0.61	= cu. in/min . x 16.4 = cu. cm./min		
litres/min.	x .2642	= GPMX x 3.785 = litres/min.		

Fractions	Decimals	Millimetres	Fractions	Decimals	Millimetres	Fractions	Decimals	Millimetres
1/64	0.016	0.397	23/64	0.359	9.128	45/64	0.703	17.859
1/32	0.031	0.794	3/8	0.375	9.525	23/32	0.719	18.256
3/64	0.047	1.191	25/64	0.391	9.922	47/64	0.734	18.653
1/16	0.063	1.588	13/32	0.406	10.319	3/4	0.750	19.050
5/64	0.078	1.984	27/64	0.422	10.716	49/64	0.766	19.447
3/32	0.094	2.381	7/16	0.438	11.113	25/32	0.781	19.844
7/64	0.109	2.778	29/64	0.453	11.509	51/64	0.797	20.241
1/8	0.125	3.175	15/32	0.469	11.906	13/16	0.813	20.638
9/64	0.141	3.572	31/64	0.484	12.303	53/64	0.828	21.034
5/32	0.156	3.969	2/2	0.500	12.700	27/32	0.844	21.431
11/64	0.172	4.366	33/64	0.516	13.097	55/64	0.859	21.828
3/16	0.188	4.763	17/32	0.531	13.494	7/8	0.875	22.225
13/64	0.203	5.159	35/64	0.547	13.891	57/64	0.891	22.622
7/32	0.219	5.556	9/16	0.563	14.228	29/32	0.906	23.019
15/64	0.234	5.953	37/64	0.578	14.684	59/64	0.922	23.416
1/4	0.250	6.350	19/32	0.594	15.081	15/16	0.938	23.813
17/64	0.266	6.747	39/64	0.609	15.478	61/64	0.953	24.209
9/32	0.281	7.144	5/8	0.625	15.875	31/32	0.969	24.606
19/64	0.297	7.541	41/64	0.641	16.272	63/64	0.984	25.003
5/16	0.313	7.938	21/32	0.656	16.669	1	1.000	25.400
21/64	0.328	8.334	43/64	0.672	17.006	1mm = 0.3937 and .001 = 0.254mm		
11/32	0.344	8.731	11/16	0.688	17.463			



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