

Mechanical Joint Integrity

- API, ASME & IChemE MJI Training
- Flange Management JIT Software
- Hydraulic Torque Wrenches
- Hydraulic Tensioning
- Portable Machines

























LAPP Equipment UK Limited

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THE LAPP "THREE T" PILLARS OF JOINT INTEGRITY ASSURANCE







APPROPRIATELY



FLANGE MANAGEMENT SOFTWARE

AND DATA COLLECTION DEVICES

Tooling

Training

API-U FMJIT

API-U (FMJIT) Accredited Training





SINGAPORE - MALAYSIA - BRUNEI - INDONESIA - SOUTH KOREA - THAILAND - CHINA - AUSTRALIA - TRINIDAD - PHILIPPINES



API-U (FMJIT) Accredited Training



Courses



LAPP Equipment UK API-U Flange Management Joint Integrity (FMJIT) for the Assembly, Tightening and Disassembly of Bolted Connections.

**With associated Knowledge for JIT10, JIT18 & JIT19 ** Contact LAPP Equipment UK to take this course >>> enquiries@lappuk.co.uk

Buy Course







AMERICAN PETROLEUM INSTITUTE - APPROVED TRAINING

As an API-U approved training provider LAPP Equipment UK can offer a 2 day course with 8 students covering the assembly, tightening and disassembly of bolted connections. This course includes in depth practical instruction on the safe and effective use of both hand and hydraulic bolt tightening equipment.

This LAPP Equipment UK API-U approved training course can be delivered at:

- LAPP Equipment UK global training facilities.
- Client Site Global subject to approval via LAPP Equipment Training UK.

API-U is dedicated to providing excellence in petroleum industry training, because only the API has access to the largest pool of subject experts in the industry, API-U programs are taught by the best trainers who utilize today's most innovative methods.

The practical knowledge gained from API-U training enables participants to maintain professional competency.

LAPP Equipment UK offers the following API-U Training Standard (Flange Management Joint Integrity (FMJIT) for the Assembly, Tightening and Disassembly of Bolted Connections) course:

- TS JIT-10 Hand Torqued Bolted Connections
- TS JIT-18 Hydraulically Tensioned Bolted Connections
- TS JIT-19 Hydraulically Torqued Bolted Connections

For a quotation to gain access to our API-U (FMJIT) Training course please send your enquirers to: enquiries@lappuk.co.uk

Available at your local LAPP Equipment UK global training facilities





API-U (FMJIT) Accredited Training



AMERICAN PETROLEUM INSTITUTE - APPROVED TRAINING

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The following are the API-U Training Standards "Flange Management Joint Integrity (FMJIT) for the Assembly, Tightening and Disassembly of Bolted Connections":

JIT10 Hand Torque Bolted Connection Techniques

This course covers specifications, methods, processes, techniques, and procedures for using hand torque wrenches. It will explain how to remove components from hand torque bolted connection systems, how to replace and reassemble securely and verify the integrity of assembled joints. The following are the Learning Outcomes (LO):

- a. Understand tightening and torqueing sequences for flanged connections
- b. Prepare work areas, equipment and materials for bolted connection tasks
- c. Perform hand torqued bolted connections

JIT18 Hydraulically Tensioned Bolted Connection Techniques

This course covers specifications, methods, processes, techniques, and procedures for using hydraulic tensioning equipment. It will explain how to remove components from hydraulic tensioned bolted connection systems, how to replace and reassemble securely and verify the integrity of assembled joints. The following are the Learning Outcomes (LO):

- a. Understand tensioning and tightening sequences for flanged connections
- b. Prepare work areas, equipment and materials for bolted connection tasks
- c. Perform hydraulically tensioned bolted connection activities

JIT19 Hydraulic Torque Bolted Connection Techniques

This course covers specifications, methods, processes, techniques, and procedures for using hydraulic torque wrenches. It will explain how to remove components from hydraulic torque bolted connection systems, how to replace and reassemble securely and verify the integrity of assembled joints. The following are the Learning Outcomes (LO):

- a. Understand hydraulic tightening and torqueing sequences for flanged connections
- b. Prepare work areas, equipment and materials for bolted connection tasks
- c. Perform hydraulically torqued bolted connection activities





API-U (FMJIT) eLearning Accredited Training





LAPP Equipment UK API-U Flange
Management Joint Integrity (FMJIT)
for the Assembly, Tightening and
Disassembly of Bolted Connections.
**With associated Knowledge for
JIT10, JIT18 & JIT19 ** Contact LAPP
Equipment UK to take this course >>>
enquiries@lappuk.co.uk









AMERICAN PETROLEUM INSTITUTE - UNIVERSITY APPROVED TRAINING

As an API-U approved training provider LAPP Equipment UK Ltd provide an on-line eLearning training platform covering the Assembly, Tightening and Disassembly of bolted connections.

API-U is dedicated to providing excellence in petroleum industry training because only the API has access to the largest pool of subject experts in the industry. API-U programs are taught by the best trainers who utilize today's most innovative methods.

The LAPP Equipment UK eLearning platform provides learners with:

- Comprehensive modules
- Online portal with FMJIT accreditation
- 24 hours a day, 7 days a week access
- Learn from the convenience of your work place or home
- Learning and Testing at your own pace

LAPP Equipment UK offers the following API-U Training Standard (Flange Management Joint Integrity (FMJIT) for the Assembly, Tightening and Disassembly of Bolted Connections):

- JIT10 Hand Torqued Bolted Connections
- JIT18 Hydraulically Tensioned Bolted Connections
- JIT19 Hydraulically Torqued Bolted Connections

For a quotation to gain access to our API-U (FMJIT) Training course please send your enquirers to: enquiries@lappuk.co.uk

Available on your PC, Lap-Top, iPad, Tablet, iPhone







Available in ENGLISH, MANDARIN, ARABIC







IChemE UK FMJIT

IChemE UK FMJIT Accredited Training



About IChemE

The Institution of Chemical Engineers (IChemE) is the professional body for people involved in the chemical, process and biochemical industries.

We have over 37,000 members in almost 100 countries. In addition to membership, we deliver a range of services and activities including policy development, training, events, conferences, publications and careers support.

IChemE is licensed by the Engineering Council and Science Council in the UK to assess the competence of engineers, scientists and technicians, plus the approval of academic programmes and professional development schemes.

As a leading provider of training, our open and in-house training courses help around 1,700 delegates to improve their skills and knowledge each year.

IChemE approval can help you rise above the competition

You know that your training is the best but how do you show that? IChemE approval will give you an advantage over the companies in your field.

Our knowledge of professional standards; close involvement with industry, education and regulators and our own expertise as a leading global training provider, mean we are uniquely positioned to independently assess and approve training courses and professional development programmes across the world.







ASME BSQP

ASME BSQP Authorized Training Provider



Overview of ASME Bolting Specialist Qualification Program

The ASME Bolting Specialist Qualification Program introduces you to the principles and practices of bolted joint assembly. It improves your ability to inspect, troubleshoot, assemble, disassemble, and tighten bolted joints safely.

Through training and testing, you will demonstrate your understanding of the principles and practices of bolted joint assembly, as outlined in Appendix A of ASME *PCC-1*: Guidelines for Pressure Boundary Bolted Flange Joint Assembly.

This program consists of two sections:

- 1. **Online Bolting Principles and Procedures:** This training and assessment is designed to improve your knowledge of the principles and procedures of bolting. It is delivered in four online courses with multiple-choice reviews and an online final examination. The four parts included in the online training are:
 - Part 1 Principles of the Bolted Joint and ASME PCC-1
 - Part 2 Flanges, Fasteners, and Gaskets
 - Part 3 Putting It Together/Taking It Apart
 - Part 4 Bolting Safety and Tool Handling
- 2. On-Site Hands-On Tool Demonstration and Testing: This training and assessment is delivered in a one-day session in which you will review, observe, and demonstrate actual tool handling and safety principles. During this training day, you will demonstrate that you can safely and effectively operate bolting tools and assemble functioning joints. It is designed to test and improve your skills. This training can only be taken after successful completion of all four online courses and the final examination. Initially, this training will be available at various locations around the U.S.

Successful candidates who submit verification of at least 6 months of bolted joint assembly experience, complete the online courses, pass the online examinations, and pass the on-site instructor's evaluation will receive the ASME Certificate for the Qualified Bolting Specialist. Please note the following:

Individuals who successfully complete this program will be familiar with the general principles and best practices of bolted joint assembly as outlined in the current edition of ASME PCC-1, and shall have demonstrated their knowledge at the level required by Appendix A of the ASME PCC-1 Guidelines.

Here is the process for applying and completing the qualification program:

Bolting Specialist Customer Application Process

- 1. Complete the 4 online courses and pass each exam
- 2. Complete the ASME application form
- 3. Pass the online Bolting Principles and Procedures Final Exam, scoring 100%
- 4. Contact an Authorized Training Provider to take the On-Site Hands-On Tool Demonstration and Testing training
- 5. Submit the completed evaluation from the On-Site training
- 6. Receive the ASME Bolting Specialist Qualification certificate and card









INTEGRITY-PRO

Flange Management Joint Integrity Software

INTEGRITY-PRO Joint Monitoring software is a bespoke database system specifically developed to plan, monitor, control and provide traceability of flanged joints and connections. The database calculation engine uses the Baseline Standard ASME PCC-1 2022 Appendix O Section O-4.1 and Appendix H Table H-1 to define the residual bolt load/stress, and is compared with tabled values in the SHELL ES/090 Rev 2 Specification. INTEGRITY-PRO runs on the standard Windows operating system and can be used as stand alone or networked. It has been adopted by major plant operators as an essential management system due to it's simplicity and comprehensive covering of the plant and related maintenance.

Offering data gathered from years of industry experience, Integrity-Pro can provide bolt tightening data including bolting patterns, torque and tensioning figures, procedures, techniques and recommended controlled bolting equipment. Based on the information entered, the Integrity-Pro software will analyze all of the data and produce a complete calculation sheet along with the required torque or tension figures to ensure an accurate and correctly bolted joint is achieved.

Integrity-Pro can also create a specific tightening procedure for each bolted joint, which can include specific information such as any special remarks all of which can be easily entered into the software by the user. It also includes basic information for standard flanges, wafer check valves, spade and spacers, and swivel flange assemblies.

Integrity-Projoint integrity database management system is used to support bolted joint inspection and maintenance and/or leak testing activities raising safety levels across the industry in which it applies.



INTEGRITY-PRO

Flange Management Joint Integrity Software

FUNCTIONALITY

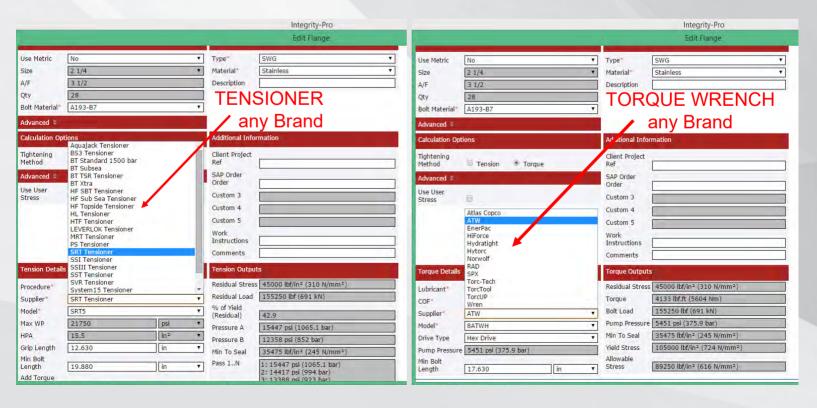
Full traceability and control of all activities associated with the joint/connection including:

- · Joint disassembly/breakout
- · Machining/re-facing
- Joint assembly
- Bolt tightening
- Testing (Hydrostatic, Pneumatic, Nitrogen or Helium)
- · Leak history and incidents

Integrity-Pro Flange Management Joint Integrity Controlled Bolting software provides bolting calculations and data for :

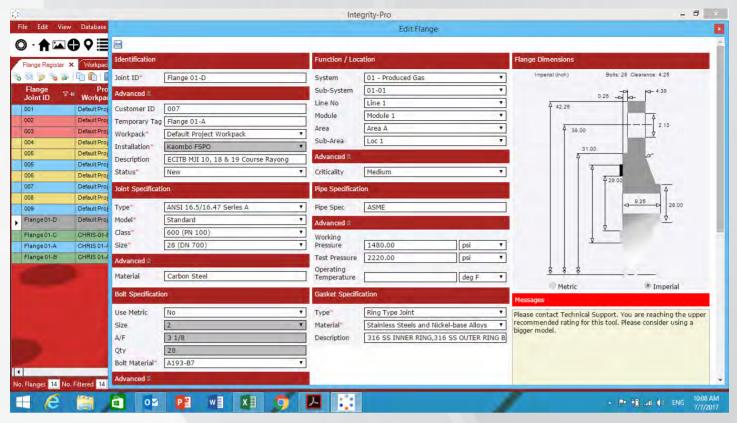
- BS1560/ANSI B16.5 standard flanges
- MSS SP44 standard flanges
- API 6A and 17D standard flanges
- Clamp type connectors(Techlok, Grayloc, Galperti and Destec)
- Non-standard joints, i.e. pressure vessels, heat exchangers, compact flanges, etc..

- Project control and review by visual status display of each joint.
- Performs as a central source for documentation and records associated with each activity or task.
- Provides joint tightening proceduresand methods.
- · Generates tooling lists.
- Provides and maintains historical data for each joint.
- Search engine to find and display specific flanges/records.
- Embedded equipment database providing access to service records, tool calibration, etc.
- Embedded personnel database providing access to individual training, competence, qualifications, etc..
- Completed joint databases can be viewed and interrogated by a freeware viewer which can be freely distributed throughout the organization.



1. Key Feature - Rapid Flange Data Entry

- Import data from Excel (Data Migration) or Copy existing Flanges.
- Allows for Pre-Engineering project work to commence, saved as a .sdf file.



2. Key Feature - Completion & Work Instruction Certificate

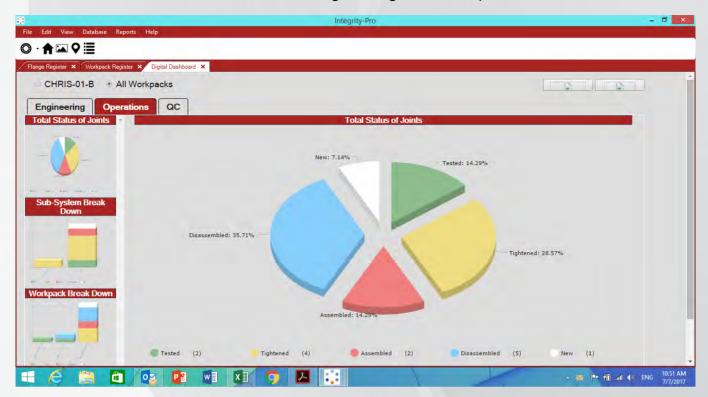
- Once all drawings are in the system and all specifications are added, Work Instructions can be generated to support the field work.
- Completion certificates can be created as part of any documentation handover.





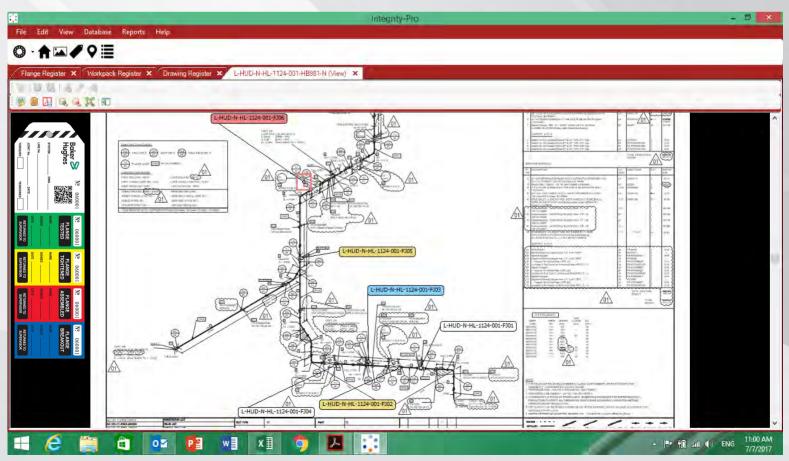
3. Key Feature - Digital Dashboard

• Dashboard for Engineering, QC and Operations.



4. Key Feature - Drawing Overlay & Mark-up

- Drawing overlay feature allows Flange Management tags and visual status to be layered on top of leak test mark-up route.
- Mark-up drawings allow detailing information on valves within the test envelope.



5. Key Feature – AEGEX tablet

- Intrinsically safe Zone 1/21 & DIV. 1 AEGEX tablet running INTEGRITY-PRO (Flange Management) FM JIT software, & Windows 10 as standard.
- The AEGEX tablet can directly scan the Flange Tag Bar Code, thereby locating the Flange Joint ID immediately in the Flange Register where the Flange status can be updated in real time.





FLANGE REGISTER



DRAWING OVERLAY MARK-UP



FLANGE TAG BAR CODE SCANNING



ADD FLANGE ACTIVITIES



Data upload to local server/cloud hosted DB



ADD WORK INSTRUCTION

BOLTPREP

MILL BOOK TENSION Monitor

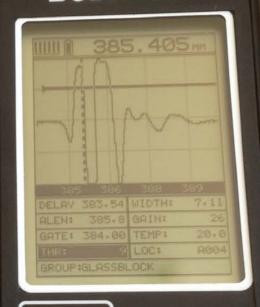
Ultrasonically measures the actual elongation produced by tightening a threaded fastener.



The most advanced ultrasonic solution available on the market.

- EFFECTIVELY monitor your bolts during periodic shatdowns over the service life of the fastener VISUALLY compare the unloaded
- ► VISUALLY compare the to the loaded waveform.
- MEASUREMENT QUANTITIES Time (nanoseconds) Elongation, Load, Stress, and %Strain.
- DISPLAY OPTIONS RF, Rectiÿed, Large Digits with Limits Bar.
- DISPLAY RESOLUTION 1/8 inch VGA 240 x 160 pixels.
- STORES 8000 readings and waveforms in multiple groups.
- BUILT-IN linear regression or vector for optimizing load measurements.
- AUTO SET feature automatically optimizes detection and adjusts display. HI/LO ALARM tolerance limits work in conjunction with the data port and external pump shut-o° devic e.

BOLTPREP





MILLBOLT METER SPECIFICATIONS

Physical

Weight:

13.5 ounces (with batteries).

Size:

Width (2.5 in/63.5 mm) Height (6.5 in/165 mm) Depth (1.24 in/31.5 mm)

Operating Temperature:

-14° to 140°F (-10° to 60°C).

Keyboard:

Membrane switch with twelve tactile keys.

Case:

Extruded aluminum body with nickel plated aluminum end caps (gasket sealed).

Data Output:

Bi-directional RS232 serial port; Windows® PC interface software.

Display:

1/8in VGA grayscale display (240 x 160 pixels); viewable area 2.4 x 1.8in (62 x 45.7mm); EL backlit (on/off/auto invert).

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (flaws, pits).

Pulse-Echo w/Gate (fine adjust).

Pulser:

Square wave pulser with adjustable pulse width (spike, thin, wide).

Receiver:

Manual or AGC gain control with 40dB range.

Timing:

10 bit 250 MHz digitizer.

Transducer

Transducer Types:

Dual Element (1 to 10 MHz).

Locking quick disconnect "00" LEMO connectors.

Standard 4 foot cable.

Custom transducers and cable lengths available for special applications.

& Thickness Gauge

Measuring

Range:

From 1 to 96 inches (25.4 to 244 cm).

Ouantities:

Time - Nanoseconds.

Elongation - Change in length (inches/millimeters).

Load - Force load applied (pounds KIP or megapascals MPa).

Stress - Force for unit area stress applied (inches per inch or millimeters per millimeter).

%Strain - Ratio of elongation to effective length.

Resolution:

+/- 0.00001 inch (0.0001 mm).

Velocity Range:

0.0492 to .3937 inches/microsecond (in/ μ s) (1250 to 9,999 meters/sec).

Fixed, Single, and Two-point zero calibration options.

Select bolt material types from a preset or custom list.

Units:

English & Metric / Farenheit & Centigrade.

Display

A-Scan: Rectified +/- (half wave view), or RF (full waveform view).

Large Digits: Display and toggle between nanoseconds, elongation, load, stress, and strain; Digit Height: 0.400 inch (10mm).

Limits Bar (alarm limits): Set Hi & Lo alarm limits for displaying an acceptable tolerance range.

Repeatability Bar Graph: Bar graph indicates stability of measurement.

Data Logger

Total of 8,000 bolts in multiple bolt groups. Stores both waveform views, nanoseconds, elongation, load, stress, strain and all gauge settings for each reading.

Memory:

16 megabit non-volatile ram.

Transducer

Transducer types:

Single element (1 MHz to 10 MHz & 1/8 to 1 inch diameters). Magnetic & Non-Magnetic options.

Glue-on transducers available for short bolts with minimal elongations to eliminate transducer placement errors.

Locking quick disconnect "00" LEMO connectors. Standard 10 foot cable.

Custom transducers available for special applications.

Temperature probe for automatic temperature compensation.

Features

Setups:

64 custom user defined setups; Factory setups can also be edited by the user.

Gate:

Gate used to fine adjust where the detection point occurs.

Alarm Limits:

Set Hi and Lo tolerances with audible beeper, viewable scan bar, and visual LEDs.

Auto Set:

Locates the detection signal, optimizes the gain setting, and adjusts the overall display to show the waveform and detection point automatically.

Field Calibration:

Vector & linear regression.

Certification

Factory calibration traceable to NIST & MIL-STD-45662A.

Warranty

2 year limited



MADE IN THE USA









TS Transducer Socket

- TS Transducer Torque Socket with Blue tooth and software included
- Peak and Continuous Torqe measurement option
- Can be used with a Hand Clicker Style or Hydraulic Torque Wrench
- Black anodizing coating for corrosion protection
- Comes as a Plug & Play system
- Accuracy ±3%, Consistency ±1%
- Comes complete with carry case
- Piezoelectric transducer torque control system with LCD display

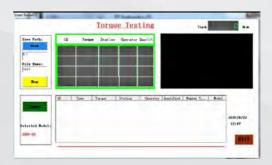






Description	Torque (Nm)	SQD Size
TS-033mm	150∼1,500 ft lbs	3/4"
TS-036mm	150~1,500 ft lbs	3/4"
TS-041mm	150∼1,500 ft lbs	3/4"
TS-046mm	150~1,500 ft lbs	3/4"
TS-050mm	300~3,000 ft lbs	1"
TS-055mm	300~3,000 ft lbs	1"
TS-060mm	300~3,000 ft lbs	1"
TS-065mm	800~8,000 ft lbs,	1-1/2"
TS-070mm	800~8,000 ft lbs,	1-1/2"
TS-080mm	800~8,000 ft lbs,	1-1/2"
TS-090mm	1,200~12,000 ft lbs	1-1/2"
TS-100mm	1,200~12,000 ft lbs	1-1/2"





TorqTag® SERIES

Bolt Sequential Numbering Magnetic Discs



- TorqTag® are durable strong Magnetic Numbering Discs available in three colours, Red, Yellow and Green.
- All are numbered from 1 to 28 or 1 to 56 to signify the correct bolting sequence.
- Designed to be attached anywhere around the flange or on top of the stud bolt itself on larger applications.
- All TorqTag's are 100% reusable and are used for ECITB UK & ASME MJI training.
- They include an individual bar code which can be read and used with data collection devices.
- Also available with heavy duty, long life adhesive backing for applications where they are required to remain.
- A Higher Powered Neodymium magnetic version is also available for applications with thick paint etc.









Durable Flange Tagging Solutions for Leak Testing

- Material Prism Polypropylene
- UV Protection additive
- Melting point approx. 140°C
- For use in extreme environments
- Both onshore and offshore use
- Proven in oil & gas environments
- Resistant to most chemicals & oils
- 100% Recyclable material

















DESCRIPTION:

LAPP Equipment UK LTD have a fully equipped Laboratory to be able to calibrate all brands of Hydraulic torque wrenches to the International NIST Standard, but understand also that some clients have enough High Torque Wrenches in their fleet to warrant having their own equipment for service and calibration.

Being a specialist in all things torque LAPP UK are pleased to be able to offer a wide range of Torque Testing Equipment, that is certified to the NIST International Standard and enables users to be able to certify their own equipment, and ensure full traceability for themselves and their customers. **NIST** (National Institute of Standards and Technology USA).

LIST OF HYDRAULIC TOOL TEST STAND MODELS:

Part Number	Imperial	Intl System (SI)	Metric
AWS-QCF-750	75-750 Ft.lbs	101-1012 Nm	10-105 Kgf.m
41011-1K	100-1000 Ft.lbs	135-1350 Nm	14-138 Kgf.m
41012-2.5K	250-2500 Ft.lbs	340-3400 Nm	35-346 Kgf.m
41013-5K	500-5000 Ft.lbs	680-6800 Nm	69-961 Kgf.m
41015-10K	1000-10000 Ft.lbs	1350-13500 Nm	138-1383 Kgf.m
41025-25K	2500-25000 Ft.lbs	3400-34000 Nm	346-3456 Kgf.m
41016-50K	5000-50000 Ft.lbs	6800-68000 Nm	691-6913 Kgf.m









Square Drive Hydraulic Torque Wrench



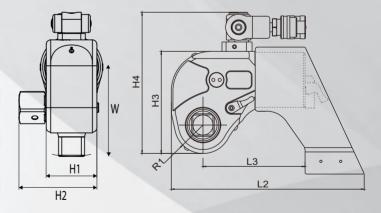


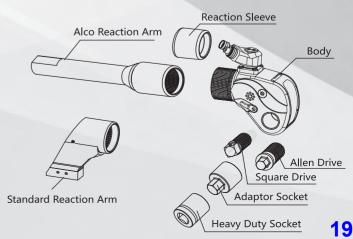


- Easy replaceable square and hexagon drive adaptors
- · Body shroud engraved with torque pressure chart
- Suitable for continuous operation at 85% of maximum pressure
- Heavy duty aluminum-titanium composite light body
- 360° adjustable reaction arm with safety lock feature
- Working pressure 10,000 psi max.
- Designed to tighten and loosen fasteners requiring very high torque
- Models from 81 ft-lbs up to 53,064 ft-lbs
- Constantly repeatable accuracy of ±3%
- 360°x185° uni-swivel with quick release couplings

Type	Torque Square Weight (ft.lbs) Drive (lbs)						Dimension (inch)						
	Min		Max			L2	L3	H1	H2	Н3	H4	W	R1
LSQ-0.	7 81	~	814	3/4"	3	4.37	4.47	1.65	2.60	2.99	4.25	2.83	0.88
LSQ-1	135	~	1,357	3/4"	5	6.80	4.59	1.97	2.88	3.77	4.97	3.45	1.04
LSQ-3	318	~	3,183	1"	11	8.16	5.34	2.63	3.72	4.88	6.46	4.49	1.31
LSQ-5	564	~	5,639	1-1/2"	18	9.73	6.41	3.16	4.93	5.97	7.71	5.39	1.63
LSQ-8	775	~	7,753	1-1/2"	24	10.74	7.54	3.54	5.28	6.57	8.54	6.05	1.82
LSQ-10	1,12	7~	11,27	2 1-1/2"	32	12.22	8.02	3.95	5.57	7.35	9.04	6.73	2.03
LSQ-1	5 1,57	0~	15,70	4 2-1/2"	42	12.66	8.52	4.12	5.80	8.16	10.03	7.02	2.95
LSQ-20	2,01	0~	20,10	1 2-1/2"	62	13.13	9.12	4.72	6.20	8.66	10.63	7.32	3.32
LSQ-25	2,54	8 ~	25,48	1 2-1/2"	77	14.72	10.79	5.39	7.87	9.72	11.69	8.60	4.83
LSQ-35	3,60	7~	36,07	6 2-1/2"	104	15.69	11.33	6.02	8.50	10.10	12.07	9.10	5.49
LSQ-50	5,30	6 ~	53,06	4 2-1/2"	192	16.75	12.31	7.30	9.78	11.46	13.43	10.2	6.20





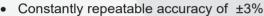


LFTS& LFT SERIES

3rd Party Calibrated to UKAS Standards

Low Profile Hexagon Hydraulic Torque Wrench



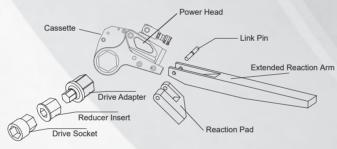


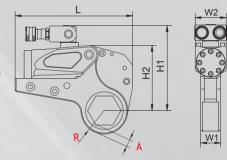
- 10 different models from 169 ft.lbs to 61,875 ft.lbs
- Designed to tighten & loosen nuts requiring high torque
- 10,000psi max with 360°x185° Uni-swivel assembly



- Maximum torque power with min cassette wall thickness
- Durable aluminum-titanium alloy drive cylinder
- Suitable for continuous operation at 85% max pressure
- Safety pressure relief valve stops over pressurisation













Type	A/F	Torque (ft.lbs)	Drive Cylinder	Cassette	s		Dimer	nsion	(inch)	
	(inch)	Min Max	(lbs)	(lbs)	L	H1	H2	W1	W2	A	R
LFT-2	7/8" ~ 2-3/16"	169 ~ 1,691	2.20	3.52	7.69	4.96	4.03	1.26	2.01	0.39~0.63	1.06~1.69
	2-3/8"	177 ~ 1,770	2.20	3.74	7.69	5.06	4.14	1.26	2.01	0.43	1.81
LFT-3	1-3/8" ~ 2-3/8"	250 ~ 2,503	3.20	3.75	8.69	6.06	4.64	1.36	2.30	0.48	1.85
LFT-4	1-1/4" ~ 2-9/16"	470 ~ 4,703	4.40	9.68	10.15	6.97	5.35	1.65	2.60	0.55~0.63	1.42~2.09
	2-3/4" ~ 3-1/8"	476 ~ 4,775	4.40	10.12	10.35	7.37	5.74	1.65	2.60	0.59	2.2~2.4
LFT-8	1-7/16" ~ 3-11/16"	795 ~ 7,948	7.26	17.60	11.96	8.16	6.66	2.09	3.27	0.63~0.87	1.81~2.36
	3-7/8" ~ 4-1/4"	867 ~ 8,864	7.26	18.48	11.96	8.51	7.01	2.09	3.27	0.67	2.95~3.07
LFT-14	2" ~ 4-5/8"	1,346 ~ 13,456	12.10	25.52	14.25	9.42	8.04	2.52	3.90	0.75~1.22	2.36~3.43
LFT-18	3-1/2" ~ 4-3/4"	1,804 ~ 18,031	17.86	42.55	15.90	9.52	10.04	2.68	4.13	0.85~1.26	2.66~3.93
LFT-20	3-1/2" ~ 5"	2,139 ~ 21,389	23.15	49.16	16.81	9.54	10.43	2.76	4.33	0.88~1.28	2.68~3.96
LFT-30	2-3/8" ~ 6-1/8"	3,043 ~ 30,426	25.08	63.80	16.57	11.94	10.72	3.35	5.16	0.98~1.14	3.03~4.53
	6-1/2" ~ 6-7/8"	3,282 ~ 32,819	25.08	66.00	17.05	12.41	11.23	3.35	5.16	1.06~1.42	4.8~5.04
LFT-45	5" ~ 6-1/8"	4,454 ~ 44,534	35.94	129.41	19.13	12.24	13.86	4.13	6.30	1.16~1.52	4.9~5.14
LFT-60	5-3/8" ~ 6-7/8"	6,187 ~ 61,875	50.71	165.35	20.24	13.23	14.76	4.60	6.98	1.26~1.62	2 5.1~5.24

LFT-AB SERIES

Ring and Open End Hydraulic Torque Spanners - 3 in 1 Tool

Technical Information

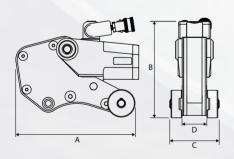


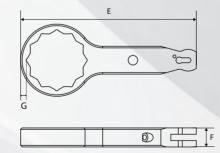


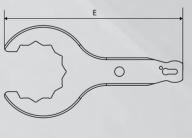


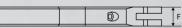


Model		LFT2-AB	LFT4-AB	LFT8-AB	LFT14-AB
Min Torquo	lb.ft	170	431	808	1364
Min Torque	Nm	230	584	1095	1848
May Tarrus	lb.ft	1770	4775	8864	13644
Max Torque	Nm	2398	6470	12010	18488
Weight	Kg	2.2	3	3.3	8.2
A	mm	155	208	260	349
В	mm	129	168	209	239
C	mm	66	87	108	132
D	mm	32	42	53	64
E	mm	Dependent on A/F	Dependent on A/F	Dependent	Dependent on A/F
F	mm	19	25.4	31.75	39
G	mm	7.5	7.5	13	17.5
A/F	mm	19 - 60	36 - 75	55 - 90	80
A	Inch	6.1	8.1	10.2	13.7
В	Inch	5.1	6.6	8.2	9.4
C	Inch	2.6	3.4	4.3	5.1
D	Inch	1.2	1.7	2.1	2.52
E	Inch	Dependent on A/F	Depe ndent	Depe ndent	Dependent on A/F
F	Inch	0.7	1	1.25	1.5
G	Inch	0.3	0.3	0.5	0.7









Tool Body

Ring End Spanner

Open End Spanner







LAPP SERIES

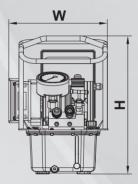
Hydraulic Torque Wrench Pumps

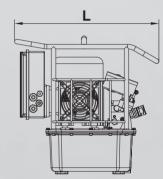
LAPP3 Electric Pump

- Compact three-stage pump
- The Single valve block can be replaced by component FP-4, thereby allowing 4 Tools to be driven simultaneously
- Three stage induction motor driven so brush-less
- Oil cooler, supporting continuous operation with steel frame
- · 4" diameter gauge, aluminum oil tank with oil level indicator
- Variable pressure adjustment between 1,000 to 10,000 psi
- · Designed for continuous operation

Model	LAPP3-2	LAPP3-4				
Working pressure	10000 Psi	10000 Psi				
Drive	Electric	Electric				
Voltage	220~230 V / 50 Hz	220~230 V / 50 Hz				
Power (HP)	1.5	1.5				
Tank capacity (Gallon)	1.45	1.45				
Flow rate (cu.in/min)	335.5/85.4/42.7	335.5/85.4/42.7				
Oil cooler	Yes	Yes				
Weight (lbs)	59	62				
Oil outputs	4 x 1/4" NPT 17.52	8 x 1/4" NPT				
LxWxH (inch)	X 11.97X 16.77	18.15 X 11.97 X 16.77				





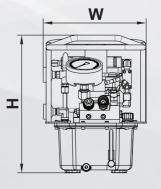


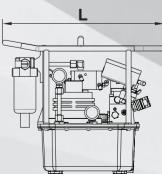
LAPP4 Pneumatic Pump

- Compact three-stage pump
- The Single valve block can be replaced by component FP-4, thereby allowing 4 Tools to be driven simultaneously
- Three stage air motor driven
- Oil cooler, supporting continuous operation with steel frame
- 4" diameter gauge, aluminum oil tank with oil level indicator
- Variable pressure adjustment between 1,000 to 10,000 psi
- Designed for continuous operation

Model	LAPP4-2	LAPP4-4				
Working pressure	10000 Psi	10000 Psi				
Drive	Air	Air				
Air Pressure	58~116 Psi	58~116 Psi				
Power (HP)	4.0	4.0				
Tank capacity (Gallon)	1.45	1.45				
Flow rate (cu.in/min)	610/134/67	610/134/67				
Oil cooler	Yes	Yes				
Weight (Kg)	28	30				
Oil outputs	4 x 1/4" NPT	8 x 1/4" NPT				
LxWxH (inch)	17.50 X 12.00 X 16.00	17.50 X 12.00 X 16.00				







LAPP5-4 Twin Pneumatic Heavy Duty Pump

- Steel frame for ease of carrying & pump protection
- Three stage, compact design with 4" diameter pressure gauge
- Applicable for both one or four torque wrenches
- Aluminum oil tank with oil level gauge
- Variable pressure adjustment between 1,000 to 10,000 psi

Model	LAPP5-4
Supply	100psi air pressure
Power (HP)	4.0
Tank capacity (Gallon)	2.90
Max. Oil Flow:	1200 cu.in/min
Weight (lbs)	97
LxWxH (inch)	22.00 X 17.00 X 19.00



LAPP3-2-EX ATEX Certified Electric Torque Wrench Pump

- ATEX Certified to International Standards II 2G Ex h IIB T4 Gb
- Three stage induction motor driven so brush-less
- Light weight and compact design
- Large oil capacity tank for a wide range of Torque wrenches
- Fitted with a compact 4" pressure Gauge

Model	LAPP3-2-EX
Supply	220V, 50Hz, Single Phase or 380V, 50Hz, 3 Phase
Power	1.5kW (@ 2,800 rpm)
Tank capacity	8 liters Reservoir
Max. Oil Flow	8.6 L/min low pressure, 65 Bar
Weight (Kg)	45
LxWxH (mm)	330x460x540



LAPP-DP-2 Gasoline Powered Hydraulic Torque Wrench Pump

- Steel frame for ease of carrying & pump protection
- 2-Stage Double Acting with 4" diameter pressure gauge
- Light weight and compact design
- Aluminum oil tank with oil level gauge
- Variable pressure adjustment between 1,000 to 10,000 psi

LAPP-DP-2
Gasoline
4.0
28
640 cu.in/min
58
655x375x610





BackUp Wrenches











SPARK FREE

O TRAPPED NO FLOGGING FINGERS HAMMER REQUIREI

THE LBW-SERIES MAGNETIC BACKUP WRENCH, THE SIMPLEST WAY TO STOP A NUT FROM ROTATING.
EASY TO USE AND VERSATILE

MAGNETS EMBEDDED

creates a magnetic field force that attracts it to other ferromagnetic materials.

BI-HEXAGONAL DESIGN

provides the ultimate mixture of versatility and durability



Model	Across Flat (mm)	Across Flat (in)	Load Limits (Ft.Ibs)	Load Limits (Nm)
LBW104	30	1-1/4"	2400	3254
LBW107	36	1-7/16"	2500	3390
LBW110	41	1-5/8"	3500	4745
LBW113	46	1-13/16"	3500	4745
LBW200	50	2"	4100	5559
LBW203	55	2-3/16	4200	5694
LBW204	57	2-1/4"	4300	5830
LBW206	60	2-3/8"	4300	5830
LBW209	65	2-9/16"	4550	6169
LBW212	70	2-3/4"	5600	7592
LBW215	75	2-15/16"	6300	8542
LBW302	80	3-1/8"	7000	9491
LBW308	85	3-1/2"	7200	9762
LBW311	90	3-11/16"	7300	9897
LBW314	95	3-7/8"	9000	12202
LBW400	100	4"	24000	32539
LBW402	105	4-1/8"	24000	32539
LBW404	110	4-1/4"	24000	32539
LBW408	115	4-1/2"	25000	33895
LBW410	120	4-5/8"	27000	36607
LBW500	130	5"	27000	36607
LBW506	135	5-3/8"	27000	36607
LBW512	145	5-3/4"	28000	37962

LSR SERIES

Spring Return Bolt Tensioner

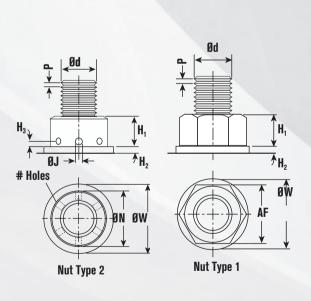


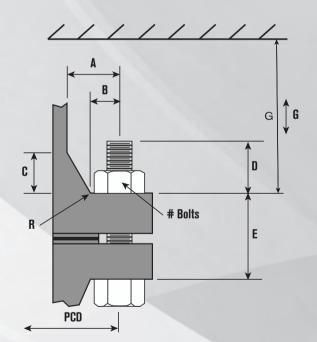
LSR BOLT TENSIONER Spring Return Bolt Tensioner

- Unique quick release bridge adaptation
- Piston over-stroke prevention
- Piston stroke indication
- Piston / cylinder misalignment compensation
- Bolt coverage from 1" to 3 1/2"
- Designed to fit BS1560 / ANSI B16.5 / API flanges
- Fully enclosed load cell design eliminates entry of debris into piston retraction mechanism

The Spring Return design dramatically increases productivity and safety on the job site when compared to older technology manual return tensioners.

topside.





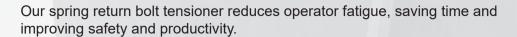








LSR SPRING RETURN BOLT TENSIONER





Order a load cell and an adaptor kit to make a complete tensioner, each are sold separately.

Height (to nearest obstruction) A COUITMENT UK D

Specifications and Dimensional Data

- Piston stroke 10mm except for LSR 0 8mm
- Max tool pressure 21,750 psi (1,500 bar)
- Bolt protrusion above nut = 1 x bolt diameter
- 'D' includes an allowance for tool removal after bolt tightening with 10mm tool stroke
- Weight excludes puller sleeve
- Product development is constantly taking place and dimensions may change without notice

Load Cell	Stud Diameter		Tool L	Tool Load Hydraulic		Α		E	3	С		D				
					Ar								Imp	erial	Me	tric
	Imp	Metric	lbs	kN	in ²	mm ²	in	mm	in	mm	in	mm	in	mm	in	mm
LSR 0	3/4"	M20	35,971	160	1.65	1,067	2.6	66	3.7	93	2.5	63	5.4	136	5.5	142
LOIC	7/8"	M22	00,011	100	1.00	1,001	2.0	00	0.1	00	2.0	00	5.6	142	5.6	144
	1"	M24							4.6	117	2.7	68	6.9	175	6.9	175
LSR 1		M27	62,950	280	2.89	1,867	3.4	87	4.6	117	2.7	68			7.0	178
	1-1/8"								4.7	120	2.8	72	7.1	181		
	1"	M24		1					4.6	117	3.0	75	6.9	175	6.9	175
		M27			//				4.6	117	3.0	75			7.0	178
LSR 2	1-1/8"	M30	101,100	450	4.65	3,001	4.1	103	4.7	120	3.2	80	7.1	181	7.2	184
	1-1/4"	M33							4.8	123	3.3	84	7.4	188	7.5	190
	1-3/8"	M36				100			5.0	126	3.5	89	7.7	195	7.7	196
	1-1/4"	M33							4.8	123	3.5	88	7.5	190	7.6	192
LSR 3	1-3/8"	M36	148,381	660	6.82	4,401	4.7	118	5.0	126	3.8	96	7.8	197	7.8	192
	1-1/2"	M39	,			,			5.1	130	3.8	96	8.0	203	8.0	204
	1-5/8"	M42							5.2	133	4.1	105	8.2	209	8.3	211
	1-1/2"	M39							5.2	132	4.4	112	8.3	211	8.4	212
	1-5/8"	M42							5.3	135	4.5	114	8.5	217	8.6	218
LSR 4	1-3/4"	M45	224,820	1,000	10.34	6,668	5.5	140.5	5.5	139	4.7	118	8.8	223	8.9	225
	1-7/8"	M48							5.6	142	4.5	114	9.1	230	9.1	231
	2"	M52							5.7	145	4.7	120	9.3	236		
	2"	M52							5.8	148	4.7	120	9.7	246	9.8	248
	2-1/4"	M56							6.1	154	5.4	138	10.2	259	10.2	258
LSR 5	2-1/4 2-1/2"	M60	337,230	1,500	15.50	10,003	6.9	175.5	6.3	161	5.4	138	10.2	259	10.3	262
	2-1/2	M64							6.3	161	6.0	153	10.7	272	10.8	273
	2-3/4	M68							6.6	167	6.1	156	11.2	284	11.1	283
	2-3/4"	M72							6.6	167	6.2	157	11.6	294	11.7	297
	3"	M76							6.9	171	7.2	182	12.1	307	12.1	308
LSR 6	3-1/4"	M80	562,050	2,500	25.84	16,671	8.6	219	7.1	180	7.5	190			12.3	312
	3-1/2"	M85							7.1	180	7.5	190	12.6	320	12.7	323
		M90							7.3	186	8.1	205	13.1	332	13.2	334
	3-1/2"	M90							7.3	186	7.9	200	13.2	339	13.3	341
LSR 7	3-3/4"	M95	719,424	3,200	33.06	21,339	9.9	252	7.3	186	7.9	200			13.5	346
	4"	M100		,		,			7.6	192	7.9	200	13.7	352	13.9	356
	'								7.8	199	8.3	210	14.2	363		

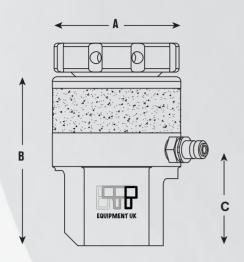
LMS SERIES

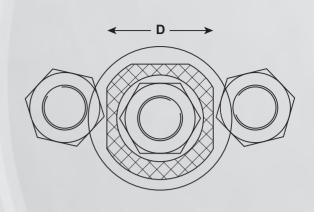
Sub-sea Hydraulic Tensioner





Sub-sea Hydraulic Tensioner





Туре	Bolt Di	ameter	Load	A	raulic rea	A in/mm	B in/mm	C in/mm	Minimu Hei		D in/mm	Stroke in/mm
	lmp	Metric		in²	mm²	11 11 11 11	11 1/111111	111/111111	'n	mm	111/111111	
LMS1	3/4" 7/8"	M20 M22	141	1.96	943	2.60/66	3.82/97	1.89/48	409 3.98	107 105	8.98/228	0.79/20
LMS2	1" 1-1/8"	M24 M27 M30	237	2.45	1585	3.23/82	5.02/127.5	2.36/60	5.24 5.12	139 136 134	11.65/296	1.82/30
LMS3	1-1/4" 1-3/8"	M33 M36	379	3.92	2532	3.82/97	5.39/137	3 03/77	5.35 5.24	142 139	12.17/309	1.82/30
LMS4	1-1/2" 1-5/8"	M39 M42	551	5.69	3676	4.37/111	5.75/146	3.54/90	5.51 5.35	147 144	12.58/322	1.82/30
LMS5	1-3/4" 1-7/8" 2"	M45 M48 M52	880	9.10	5868	5.35/136	6.22/158	4.49/114	5.94 5.83 5.71	160 158 154	13.46/342	1.82/30
LMS6	2-1/4" 2-1/2" 2-3/4"	M56 M60 M64 M68 M70	1564	16.17	10433	6.97/177	7.11/180.5	5.51/140	6.54 6.30 608	178 175 172 169 165	14.72/374	1.82/30
LMS7	3" 3-1/4" 3-1/2"	M76 M80 M85 M90	2419	26.63	16128	8.54/217	7.95/202	7 09/180	7.13 6.89 6.65	195 192 188 184	15.10/409	1.82/30



HPB150-2 SERIES

High Pressure Air/Electrical Tensioning Pump

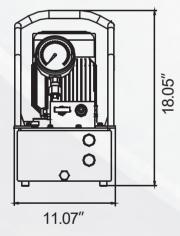
Technical Data

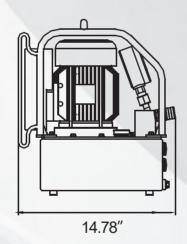
SUPPLY Air/Electric	90 psi @ 45 cfm	220~230V/50Hz	220~230V/50Hz
Oil Capacity (Gallon)	2.11	2.11	2.11
Flow Rate (cu.in/min)	122/1.95	122/1.95	122/1.22
Output Pressure	22750 Psi	29000 Psi	36250 Psi
Output Port Size	1/4" BSP	1/4" BSP	1/4" BSP
Power (HP)	1.2	1.2	1.2
Weight (lbs)	38.30	58.30	58.30



- Single-Acting High performance
- Can be used for bolt tensioning and other HP equipment in the shipping vessel and wind power industry
- Convenient adjustable high pressure regulator with precision 4" gauge
- Easy to adjust the pressure in the range of 10,150 to 36,250 psi
- Simple & quick operation with high performance quick connect couplings
- Very user friendly for site work due to its light weight compact design









High Pressure Hand Tensioning Pump



Equipped with a pressure regulating valve, to adjust the output pressure for Max. 40,600 Psi)

Aluminum titanium alloy corrosion resistance, high strength, light weight, impact resistant, durable in a variety of harsh environments.

The built-in high and low pressure switching valve, allows for a low pressure high flow rate output.

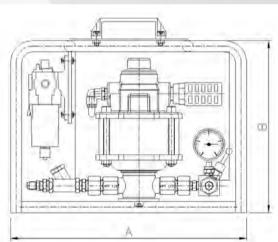


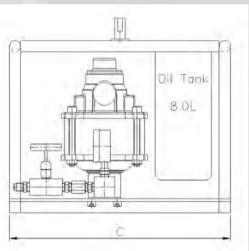
These high pressure hydraulic hand pumps are designed for high pressure hydraulic equipment. Its pressure is adjustable up to 40,600 psi, and customers can order also different size oil tanks for different applications. LAPP UK provides a wide range of accessories for this series, and these products are designed for high accuracy applications, and so are fully TUV certified.



Air Driven Hydraulic / Water Leak Testing Pump







Model No.	Ratio	Maximum Pressure (bar) (at air 7bar)	Maximum flow rate (L/min)	A (mm)	B (mm)	C (mm)	Oil Tank (Liter)
TLU-0070	10:1	70	22				
TLU-0280	40:1	280	4.2	460			
TLU-0420	60:1	420	3.0				
TLU-0700	100:1	700	2.2	480	345	430	8.0
TLU-1190	170:1	1190	1.4		345	430	0.0
TLU-1680	240:1	1680	0.9	530			
TLU-2100	300:1	2100	0.7	530			
TLU-2800	400:1	2800	0.6				





Single Speed Pneumatic Torque Gun

LPSW SeriesPneumatic Torque Wrench

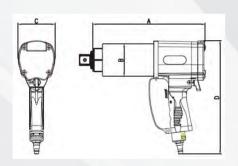
The pneumatic torque wrench is used in the working conditions that require precise and large-scale loading and unloading. The precise high-speed gearbox design can obtain stable and strong continuous output torque, which is suitable for high-efficiency occasions.

Maximized power-to-weight ratio

Wide torque range for a variety of applications and stations

Advanced gearbox design for unmatched reliability

Torque accuracy ±4%, repeatability ±4%



LPSW tool includes a standard reaction arm. The special reaction arm can be custom-made.



LPSW15 and LPSW21 series Pneumatic Torque Wrench



LPSW34, LPSW40 and LPSW80 series Pneumatic Torque Wrench

Туре	SQ	Torqu	ue(N.m)	Speed	Weight	Size A	Size B	Size C	Size D	Noise	
Турс	Size	Min	Max	RPM	kg	mm	mm	mm	mm	db	
LPSW-15	0.75 "	275	1400	15	3.5	207	70	31.5	261	80	
LPSW-21	1"	400	2000	10	3.9	201	70	34.5	261	80	
LPSW-34	1"	700	3400	4.8	7.0	269	89	38.5	272	85	
LPSW-40	1"	700	4000	4.8	7.5	289	81	38.5	272	85	
LPSW-80	1.5 "	2700	8000	4.2	12.2	317	93	51	293	85	

Standard Accessories

- Standard Reaction Arm
- Circlip
- G1/2 Air Hose
- Air Gauge, FRL, Air Regulator
- Carry Basket
- Air Torque Chart
- Operating Manual

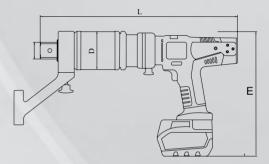




MK Series Lithium Battery Torque Gun



- Digital torque setting, adjustable every 1 Nm.
- Torque up to 8000 Nm with automatic release of reaction arm as standard.
- For applications with limited power sources or field service.
- Longer battery life, two batteries and one charge are standard





torque more conveniently.

Torque Displaying



Customizable Reaction Arm



High Performance Lithium Battery



Soft Starting Trigger



Pistol Handle



MK SERIES





Sliding Reaction Arm



















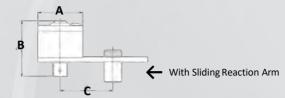


Type	SQ	Torque	(Nm)	Speed	Weight	Size A	Size B	Size C	Size D
	Size	Min	Max	RPM	kg	mm	mm	mm	mm
MK-700	0.75 "	170	700	13	3.5	231	63	67	262
MK-1400	0.75 "	300	1400	6	3.5	231	63	67	262
MK-2000	1"	400	2000	4	4.0	244	63	69	262
MK-4000	1"	800	4000	2	6.0	285	69	81	266
MK-7000	1.5 "	1350	7000	2	8.8	295	95	95	272
MK-8000	1.5 "	1500	8000	1.7	15	315	102	102	275

HM SERIES Mechanical Torque Multipliers







Part#	Ratio	Input	Output	Torque	Range	Α	В	C (min)	C (max)	Weight	React Arm
		Drive	Drive	N.m	lb. ft.	mm	mm	mm	mm	kg	kg
HM1000	5:1	1/2"	3/4"	1000	750	118	98	82	196	7.0	1.2
HM1500	5:1	1/2"	1"	1500	1125	118	115	82	196	7.5	1.2
HM2500	25:1	1/2"	1"	2500	1875	118	150	82	196	8.9	1.2
HM3500	25:1	1/2"	1-1/2"	3500	2600	118	164	82	196	9.1	1.2
HM4000	25:1	1/2"	1-1/2"	4000	3000	118	176	82	196	10.0	1.2
HM6000	25:1	1/2"	1-1/2"	6000	4500	140	214	105	254	18.3	3.0
HM8000	25:1	1/2"	1-1/2"	8000	6000	182	228	125	294	28.0	3.0
HM10000	25:1	3/4"	1-1/2"	10000	7375	182	240	125	294	28.5	3.0

GMH & DH SERIES Adjustable Clicker Torque Wrenches

Torque Wrench Body

Part#	Shank	Torque Range		Length	Width	Weight
	Size	N.m	Lb.ft	mm	mm	kg
GMH9125	9X12	25-125	20-90	427	38	0.94
GMH14200	14X18	40-200	30-150	460	38	1.06
GMH14335	14X18	65-335	50-250	520	38	1.20
GMH24500	24X32	100-500	80-400	855	56	5.00
GMH24800	24X32	160-800	120-600	1055	56	5.90
GMH241000	24X32	200-1000	150-750	1055	56	5.90
GMH271500	27X36	300-1500	200-1100	1249	64	9.00
GMH272000	27X36	400-2000	300-1500	1249	64	9.00
GMH273000	27X36	600-3000	400-2000	1249	64	10.30

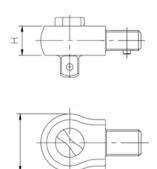
- All-steel construction for extra Durability
- Permanently stamped major and minor scales for precision torque value settings.
- Minor scale with minimum 1/10th resolution.
- Convenient English major reference scale for Metric models and vice versa.
- Rectangular shank head holders: 9x12mm, 14x18mm, 24x32mm and 27x36mm accommodate different types and sizes of heads for varied applications.
- +/-4% Accuracy in clockwise direction from 20% to 100% Max. Torque.
- Pull to unlock lock ring keeps selected torque secure from accidental change.
- Grooved non-slip grip fits comfortably in your hand.



Square Drive Ratchet Head (can reverse for clockwise & counter-clockwise direction)

Part#	Drive	Shank Size	L	Н	D	Weight	Max. Torque
			mm	mm	mm	g	N.m
DH9120	1/4"	9x12	17.5	15	28	90	20
DH9125	1/4"	9x12	17.5	20	37	135	25
DH92160	3/8"	9x12	17.5	20	38	160	160
DH93160	1/2"	9x12	17.5	20	38	160	160
DH143420	1/2"	14x18	25	20	40	265	420
DH144420	3/4" *	14x18	25	20	40	305	420
DH2441200	3/4"	24x32	35	32	60	1040	1200
DH2451200	1" *	24x32	35	32	60	1140	1200
DH2753000	1"	27x36	50	42	72	1720	3000

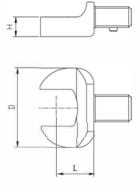




Shank Drive Open End (Metric)

			L	Н	D	Weight	Max. Torque
	Size	Size	mm	mm	mm	g	Nm
OH94	4	9x12	17.5	4	22	35	2
OH95	5 5.5	9x12	175 17.5	<u>4</u> 5	22 22	35 38	<u>4</u> 5
OH95.5 OH96	5.5 6	9x12 9x12	17.5	5	22	38	6
QH97	7	9x12	17.5	5	22	38	9
OH98 OH99	8 9	9x12 9x12	175 17.5	5 5.5	22 26	37 44	13 18
OH910	10	9x12 9x12	17.5 17.5	5.5	26	43	24
OH911 OH912	11 12	9x12 9x12	17.5	5.5 7	26 30	12 48	32 41
OH913	13	9x]2	17.5	7	-30	47	51
OH914 OH915	14 15	9x12 9x12	17.5 17.5	8	35 35	58 57	63 77
OH916	16	9x12	17.5	8	38	56	92
OH917 OH918	17 18	9x12 9x12	17.5 25*	<u>8</u> 8	38 42	54 80	109 125
OH919	19	9x12	25*	8	42	75	115
OH920 OH921	20 21	9x12 9x12	25* 25*	8	48 50	90 100	160 160
OH922	22	9x12	25*	8	50	95	160
OH923	23 24	9x12 9x12	25* 25*	8	53	100	160
OH924 OH925	25	9x12 9x12	25*	8	53 53	110 110	160 160
OH926	26	9x12	25*	8	53	110	160
OH927 OH928	27 28	9x12 9x12	30* 30*	<u>8</u> 8	64 68	140 142	160 160
OH929	29	9x12	30*	8	68	142	160
OH930 OH932	30 32	9x12 9x12	35* 35*	<u>8</u> 8	70 70	145 115	160 160
OH933	33	9x12	35*	8	75	145	160
OH934 OH935	34 35	9x12 9x12	35* 35*	<u>8</u> 8	80 80	145 145	160 160
OH936	36	9x12	40*	8	80	145	160
OH937 OH938	37 38	9x12 9x12	45* 45*	8	81 82	145 145	160 160
OH939	39	9x12	15*	8	83	145	160
OH941 OH942	41 42	9x12 9x12	45* 50*	8	85 90	145 160	160 160
OH943	43	9x12	50* 50*	8	100	165	160
OH944	44 45	9x12 9x12		8	100	165	160
OH945 OH946	46	9x12	50* 50*	8	100 100	165 165	160 160
OH948	48	9x12	50*	8	104	175	160
OH949 OH950	49 50	9x12 9x12	50* 55*	8	106 106	175 175	160 160
OH951	51	9x12	55* 55*	8	106	175	160
OH952 OH953	52 53	9x12 9x12	55*	<u>8</u> 8	110 112	175 175	160 160
OH955	55	9x12	55*	8	116	175	160
OH960 OH965	60 65	9x12 9x12	60* 65*	<u>8</u> 8	121 126	215 225	160 160
OH967	67	9x12	65*	8	128	225	160
OH990 OH146	<u>90</u> 6	9x12 14x18	90*	<u>8</u> 7	165 32	300	160 6
OH147	7	14x18	25 25	7	32	120 120	9
OH148 OH149	<u>8</u> 9	14x18 14x18	25 25	7	32 32	120 118	13 18
OH1410	10	14x18	25	7	32	116	24
OH1411 OH1412	11 12	14x18 14x18	25 25	<u>7</u> 7	32 32	114 112	32 41
OH1413	13	14x18	25	7	32	110	51
OH1414 OH1415	14 15	14x18	25 25	8	35 35	116 115	63
OH1416	16	l,lx18 14x18	25	9	38	128	77 92
OH1417	17	14x18	25	9	38	127	109
OH1418 OH1419	18 19	14x18 14x18	25 25	10 10	42 42	138 137	125 145
OH1420	20	14x18	25	11 11	50	145 158	160
OH1421 OH1422	21 22	14x18 14x18	25 25	11	50 50	155	190 220
OH1423	23	14xl8	25	13	53	156	220 250
OH1424 OH1425	24 25	14x18 14x18	25 25	13 13	53 53	159 163	280 320
OH1426	26	14xl8	25	13	53	163	360
OH1427 OH1428	27 28	14x18 14x18	30* 30*	13 13	64 66	230 255	360 360
OH1429	29	14x18	30*	13	68	255	360
OH1430 OH1431	30 31	14x18 14x18	35* 35*	13 13	70 70	255 255	360 360
OH1432	32	14xl8	35*	13	70	255	360
OH1433 OH1434	33 34	14x18 14x18	40* 40*	13 13	75 78	360 360	360 360
OH1435	35	14xl8	40*	13	80	365	360
OH1436 OH1437	36	14x18	40* 45*	13	80	365	360
OH1437 OH1438	37 38	14x18 14x18	45*	13 13	83 85	440 440	360 360
OH1439	39	14x18	45*	13	85	435	360
OH1440 OH1441	40 41	14x18 14x18	50* 50*	13 13	90 90	430 430	360 360
OH1442	42	14x18	50*	13	93	430	360
OH1443 OH1444	43 44	14x18 14x18	50* 50*	13 13	95 98	480 550	360 360
OH1445	45	14x18	50*	13	100	600	360
OH1446	46	14x18	50*	13	100	595 505	360





Part#	Open	Shank	L	H I	D	Weight	Max. Torque
	Size	Size	mm	mm	mm	g	Nm
OH1448	48	14x18	50*	13	104	595	360
OH1449	49	14x18	50*	13	106	610	360
OH14SO	50	14x18	55*	13	106	610	360
OH1451	51	14xl8	55* 55*	13	106	600	360
OH1452 OH1453	52 53	14x18 14x18	55*	13 13	110 112	600 600	360 360
OH1455	55	14x18	55*	13	116	585	360
OH1456	56	14x18	60*	13	120	650	360
OH1457	57	14x18	60*	13	121	650	360
OH1460	60	14x18	60*	13	121	650	360
OH1461	61	14xl8	60*	13	121	640	360
OH1462	62 65	14x18	60*	13	122	640	360
OH1465	65	14xl8	65*	13	126	680	360
OH1466	66	14xl8	65* 70*	13	128	680	360
OH1468 OH1470	68 70	14xl8 14xl8	70*	13 13	130 135	690 700	360 360
OH1470	72	14x18	70*	13	135	690	360
OH1475	75	14x18	75*	13	142	720	360
OH1478	78	14x18	75*	13	150	730	360
OH1480	80	14x18	80*	13	155	750	360
OH1485		14xl8	80*	13	155	750	360
OH1488	85 88	14x18	90*	13 13	160	775	360
OH1490	90	14xl8	90*	13	165	800	360
OH2417	17	24x32	35	25	62	650	1200
OH2419	19	24x32	35	25	65	680	1200 1200
OH2420	20	24x32	35	25	66	680	1200
OR2422	22 24	24x32	35	25	68	700	1200
OH2424 OH2425	25	24x32 24x32	35 35	25 25	70 70	715 715	1200
OH2426	26	24x32	35	25	70	715	1200
OH2427	27	24x32		25	70	718	1200 1200
OH2428	28	24x32	35 35	25 25	72	719	1200
OH2430	30	24x32	35	25	75	720	1200
OH2432	32	24x32	35	25	76	725	1200
OH2434	34	24x32	40*	25	78	730	1200
OH2436	36	24x32	40*	25	80	735	1200
OH2438	38	24x32	45*	25	91	809	1200
OH2441	41	24x32	50*	25	95	925	1200
OH2445	45	24x32	50*	25	100	1000	1200
OH2446 OH2448	46 48	24x32 24x32	50* 50*	25 25	100 104	1000 1100	1200 1200
0H24S0	SO SO	24x32	55*	25	106	1150	1200
OH2455	55	24x32	55*	25	119	1300	1200
OH2457	57	24x32	55*	25	120	1330	1200
OH2460	60	24x32	60*	25	121	1330	1200
OH2465	65	24x32	65*	25	130	1337	1200
OH2467	67	24x32	70*	25	130	1415	1200
OH2470	70	24x32	70*	25	132	1620	1200
OH2475	75	24x32	75* 50*	25	150	1650	1200
OH2727 OH2730	27 30	27x36 27x36	50*	28 28	90 95	1250 1295	3000
OH2732	32	27x36	50*	28	95	1295	3000 3000
OH2734	34	27x36	50*	28	100	1330	3000
OH2736	36	27x36	50*	28	100	1335	3000
OH2738	38	27x36	50*	28	107	1338	3000
OH2741	41	27x36	50* 50*	28	107	1440	3000
OH2742	42	27x36	50*	28	107	1440	3000
OH2745	45	27x36	50*	28	107	1440	3000
OH2746	46	27x36	50*	28	114	1445	3000
OH2750	50 55	27x36	55* 55*	28	118	1450	3000
OH2755 OH2760	60	27x36 27x36		28 28	124 130	1455 1460	3000 3000
OH2761	61	27x36	60* 65*	28	131	1460	3000
OH2765	65	27x36	65*	28	136	1462	3000
OH2770	70	27x36	70*	28	142	1465	3000
OH2775	75	27x36	75*	28	148	1780	3000
OH2780	80	27x36	80*	28	158	2600	3000
	85	27x36	85*	28	164	2850	3000
OH2785		27,730					
OH2785 OH2790 OH2795	90 95	27x36 27x36	90* 95*	28 28	176 180	2900 3000	3000 3000







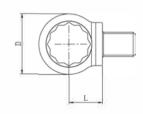
Shank Drive Closed Ring End (Metric)

Part#	Ring	Shank	L	Н	D	Weight	MaxTorque
	Size	Size	mm	mm	mm	g	N.m
QH96	6	9x12	17.5	8	12	43	18
QH97	7	9x12	17.5	8	13	43	25
QH98	8	9x12	17.5	8	14	42	34
QH99	9	9x12	17.5	9	16	45	45
QH910	10	9x12	17.5	9	17	48	58
QH911	11	9x12	17.5	9	18.5	47	72
QH912	12	9x12	17.5	12	20	54	89
QH913	13	9x12	17.5	12	22	53	105
QH914	14	9xl2	17.5	12	23	52	125
QH915	15	9x12	17.5	12	24	54	145
QH916	16	9x12	17.5	13	26	56	160
QH917	17	9x12	17.5	13	27	55	160
QH918	18	9x12	17.5	13	28.5	58	160
QH919	19	9x12	17.5	13	30	57	160
QH920	20	9x12	17.5	13	33	68	160
QH921	21	9x12	17.5	13	33	68	160
QH922	22	9x12	17.5	13	34.5	73	160
QH924	24	9x12	25*	13	37.5	80	160
QH927	27	9x12	25*	13	41.5	80	160
QH930	30	9x12	25 *	13	45	85	160
QH936	36	9x12	30*	13	52	90	160
QH941	41	9x12	35*	13	61	90	160
QH1410	10	14x18	25	11	16	95	58
QH1411	11	14x18	25	11	18.5	115	75
QH 1412	12	14x18	25	11	21.5	125	89
QH1413	13	14x18	25	11	21.5	125	105
QH1414	14	14x18	25	11	23	124	125
QH1415	15	14x18	25	11	24	123	150
QH1416	16	14x18	25	12	26	128	175
QH1417	17	14x18	25	12	27	127	200
QH1418	18	14x18	25	12	28.5	133	230
QH1419	19	14xl8	25	12	30.5	138	260
QH1420	20	14x18	25	15	33	148	290
QH1421	21	14x 18	25	15	33	148	330
QH1422	22	14x18	25	15	34.5	154	360
QH1424	24	14x18	25	15	37.5	153	360
QH1425	25	14x18	25	15	40	160	360
QH1427	27	14x18	25	16	41.5	160	360

Part#	Ring Size	Shank Size	L mm	H mm	D mm	Weight g	Max. Torque N.m
QH1428	28	14x18	25	16	45	165	360
QH1430	30	14x18	25	16	45	165	360
QH1432	32	14x18	25	16	47.5	168	360
QH1434	34	14x18	30*	16	51	190	360
QH1436	36	14x18	30*	16	54	196	360
QH1438	38	14x18	33*	16	57	210	360
QH1441	41	14 x 18	35*	16	61	215	360
QH1442	42	14 x 18	33*	16	63	215	360
QH1446	46	14x18	40*	16	68	225	360
QH1450	50	14 x 18	40*	16	70	230	360
QH1455	55	14 x 18	45*	16	76	250	360
QH1460	60	14x18	45*	16	84	255	360
QH2424	24	24x32	35	25	65	880	1200
QH2427	27	24x32	35	25	68	910	1200
QH2430	30	24x32	35	25	72	945	1200
QH2432	32	24x32	35	25	74	961	1200
QH2434	34	24x32	35	25	76	977	1200
QH2436	36	24x32	40*	25	80	1075	1200
QH2438	38	24x32	40*	25	80	1053	1200
QH2441	41	24x32	45*	25	80	1059	1200
QH2446	46	24x32	45*	25	84	1074	1200
QH2450	50	24x32	50*	25	98	1315	1200
QH2455	55	24x32	55*	25	105	1533	1200
QH2460	60	24x32	60*	25	110	1642	1200
QH2465	65	24x32	65*	25	128	1900	1200
QH2470	70	24x32	65 *	25	128	1915	1200
QH2730	30	27x36	50*	28	70	1190	3000
QH2732	32	27x36	50*	28	70	1213	3000
QH2734	34	27x36	50*	28	75	1235	3000
QH2736	36	27x36	50*	28	75	1225	3000
QH2738	38	27x36	50*	28	80	1263	3000
QH2741	41	27x36	50*	28	80	1265	3000
QH2746	46	27x36	50*	28	86	1270	3000
QH2750	50	27x36	50*	28	98	1603	3000
QH2755	55	27x36	55*	28	105	1771	3000
QH2760	60	27x36	60*	28	110	1874	3000
QH2765	65	27x36	60*	28	118	2050	3000
QH2770	70	27x36	65 *	28	128	2322	3000



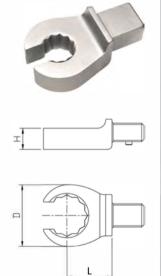




Shank Drive Open Ring End (Metric)

Part#	Ring Size	Open Size	Shank Size	L mm	H mm	D mm	Weight g	MaxTorque N.m
QOH910	10	7.1	9x12	17.5	12	22	63	12
QOH911	11	8.6	9x12	17.5	12	22	62	16
QOH912	12	9.0	9x12	.17.5	12	24	61	25
QOH913	13	10.0	9x12	17.5	12	25	63	28
QOH914	14	11.0	9x12	17.5	13	27	62	31
QOH916	16	13.0	9x12	17.5	13	30	69	46
Q0H917	17	14.0	9x12	17.5	13	31.5	68	53
QOH918	18	14.8	9x12	25*	13	33	77	65
QOH919	19	15.8	9x12	25*	13	34.5	82	74
QOH921	21	16.2	9x12	25*	13	35	92	95
QOH922	22	17.0	9x12	25*	13	37	95	105
QOH924	24	18.0	9x12	25*	13	40	97	145
QOH927	27	21.0	9x12	30*	13	44	105	160
QOH930	30	22.0	9x12	35*	13	48	115	160
QOH932	32	24.0	9x12	35*	13	51	120	160
Q0H1413	13	10.0	14x18	25	12	25	135	28
Q0H1414	14	11.0	14x18	25	13	27	140	31
QOH1415	15	11.5	14x 18	25	13	29	145	38
QOH1416	16	13.0	14x18	25	13	30	145	46
Q0H1417	17	14.0	14x 18	25	13	315	145	53
QOH1418	18	14.8	14x18	25	15	33	150	65
QOH1419	19	15.8	14x 18	25	15	34.5	150	74
QOH1421	21	16.2	14x18	25	16	35.5	155	100
QOH1422	22	17.0	14x18	25	16	37	155	115

-									
	Part#	Ring Size	Open Size	Shank Size	L mm	H mm	D mm	Weight g	MaxTorq N.m
Ì	Q0H1424	24	18.5	14 x 18	25	16	40	155	145
-	Q0H1427	27	22.0	14x18	30*	16	44	155	160
	Q0H1430	30	22.0	14x18	35*	16	48	155	180
	QOH1432	32	24.0	14x18	35*	16	51	155	200
	Q0H1434	34	25.0	14x18	40*	16	55	160	260
	Q0H1436	36	27.0	14x18	40*	16	58	165	260
ĺ	QOH1438	38	28.0	14x18	45 *	16	61	175	260
	QOHI439	41	30.0	14x18	50*	16	65	180	260
ĺ	Q0H1446	46	31.0	14x 18	50*	16	71	190	260
	Q0H1450	50	34.0	14x18	55*	16	77	195	260
ĺ	QOH2419	19	15.8	24x32	35	25	42	627	600
	QOH2430	30	22.0	24x32	35	25	67	755	600
	Q0H2432	32	24.0	24x32	35	25	69	755	600
ì	Q0H2434	34	25.0	24x32	40*	25	71	790	600
	QOH2436	36	27.0	24x32	40*	25	73.5	830	600
	Q0H2438	38	28.0	24x32	45*	25	80	922	600
	Q0H2441	41	30.0	24x32	50*	25	83	980	600
1	QOH2446	46	32.0	24x32	50*	25	92	970	600
	QOH2450	50	34.0	24x32	55 *	25	98	1180	600
Î	QOH2455	55	39.0	24x32	55*	25	106	1160	600
	QOH2730	30	22.0	27x36	50*	28	75	1250	1200
	QOH2732	32	24.0	27x36	50*	28	75	1250	1200
	QOH2736	36	27.0	27x36	50*	28	80	1350	1200













Electronic Adjustable Clicker Torque Wrenches



- Accuracy: ±2% from 20% to 100% of capacity.
- Display range: 2% to 110%.
- Units: Lbft, Lbin, Nm, Kgm.
- Modes: Peak Torque mode, Track mode.
- Target torque can be set.
- Led light and buzzer alarming when reaches target torque.
- Torque error percentage display function.
- Optional backlight, good for dark working condition.
- Continuous operate, automatic zero clearing.
- Battery level display.
- Automatically shuts off after 2 minutes of non use.
- Battery replaceable, LR03 AAA x 3 alkaline batteries, easy replacement.

Metric

Item No.	Square	Torqu	e Range	Length	Width	Weight
item No.	Drive	N.m	Lb.ft	mm	mm	kg
LEJM250	3/8"	10-50	88.5-443*	452	38	0.93
LEJM2100	3/8"	20-100	14.8-73.8	482	38	I
LEJM3200	1/2"	40-200	29.5-148	522	40	1.12
LEJM3300	1/2"	60-300	44.3-221	590	40	1.52
LEJM4400	3/4"	80-400	59-295	700	57	3.3
LEJM4600	3/4"	120-600	88.5-443	1050	60	4.6
LEJM4800	3/4"	160-800	118-590	1250	60	5.2
LEJM41000	3/4"	200-1000	147.5-738	1250	60	5.2
ski i i i i i i i						

^{*}Unit is Lb.in

English

Item No.	Square	Torque Range		Length	Width	Weight
ilem No.	Drive	Lb.ft	N.m	mm	mm	kg
LEJ2250	3/8"	50-250*	5.6-28.2	427	38	0.88
LEJ280	3/8"	16-80	21.7-108	482	38	1
LEJ3150	1/2"	30-150	40.7-203	522	40	1.12
LEJ3250	1/2"	50-250	67.8-339	590	40	1.52

^{*}Unit is Lb.in

100% Calibrated

Unique serial number for each torque wrench, corresponding to the certificate of calibration





Shockproof packaging

Specially designed for all series of "LAPP Equipment UK" torque products

LFSM & LFSH SERIES

Hydraulic Flange Spreaders



Hydraulic Flange Spreaders

For maintenance, commissioning, shutdowns, testing and valve change outs. No need for hammers, chisels, slings or chain blocks. Integrated wedge concept friction-free, smooth and parallel wedge movement eliminates flange damage & risk of spreading arm failure. Unique interlocking wedge design No first step bending risk. Requires very small access gap of only 6mm.

LFSH-14 is can be used with a bolting tool-pump or in a set including

LFSH-14 is can be used with a bolting tool-pump or in a set including the spreader, hand pump, hose, gauge and adapter.



Model No.	Max. spreading force (ton)	Tip clearance (mm)	Max. spread (mm)	І Туре	Oil capacity (cm')	Weight (kg)
LFSM·8	8	6	81	Mechanica	I NA	6.5
LFSH-14	14	6	81	Hydraulic	78	9.3
LFSH-16	16	8	81	Hydraulic	89	10.8



OK FOR SUBSEA

NC& LNS SERIES

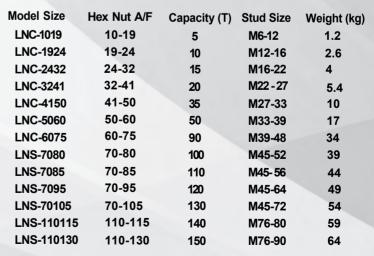
Hydraulic Nut Splitters



- For difficult Low Clearance applications
- Unique angled head design
- Heavy Duty cutting blade can be reground















LFA Flange Alignment Tooling

- Can be used on virtually all horizontal and vertical flanges including ANSI, API, BS, DIN & SPO
- Operates on most pipe configurations and suitable for offshore / onshore applications
- Robust and environmentally friendly
- The LFA can be used during: Commissioning, Construction, Routine maintenance, Shutdowns/ outages, Testing & valve change-outs
- Saves time, Saves cost and Safer operation than traditional methods
- Precise operation and Lightweight ideal for remote locations
- Comes complete with Carry case, Ratchet Strap and Instruction Manual
- LFA1TM A SIMPLE SOLUTION TO SMALL, LOW PRESSURE FLANGE MISALIGNMENT
- LFA4TM DESIGNED FOR MID RANGE FLANGES
- LFA9TE DESIGNED FOR HIGH-PRESSURE, LARGE DIAMETER FLANGES
- LMG7TM MINI-GAP FLANGE SPREADER



Part Number	Aligning Force	Description	Gross Kit Weight
LFA1TM	1T (10kN)	1 Ton, Mechanical	2Kg (4.4 lbs)
LFA4TM	4T (40kN)	4 Ton, Mechanical	13.5 Kg (30 lbs)
LFA9TM	9T (90kN)	9 Ton, Mechanical	18.5Kg (40 lbs)
LFA9TE	9T (90kN)	9 Ton, Hydraulic	27.5Kg (60 lbs)







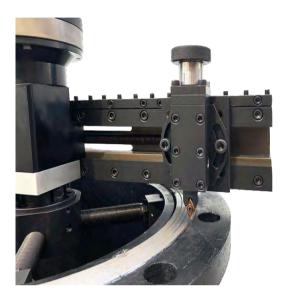
LAPP610i SERIES

Flange Facing Machine 2" - 24" (50 - 610mm)

High Performance Portable Machines

An internally mounted lightweight yet strong flange facing machine for all types of flange facing, seal groove machining, weld prep and counter boring.

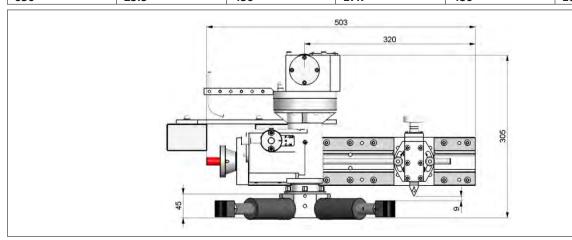




- Helical drive for a superior finish
- Swivel tool post for a wider range of machining operations
- Geared continuous groove facing feeds, for gramophone finish (ASME Standard)
- Quick set independent base, minimising set up time

The LAP610i machine is supplied complete with toolkit including tools and inserts, air filter lubricator and hose connection, all required mounting base and extensions, storage / shipping box, CE certificate, packing list and manual.

Shipping Dimensions Length Width Height mm inches mm inches 650 25.5 450 17.7 430 16.9

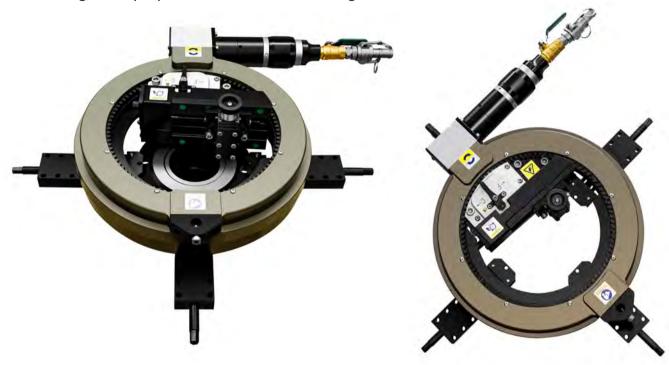


LAPP300e SERIES

Flange Facing Machine 0 - 12" (0 - 305mm)

High Performance Portable Machines

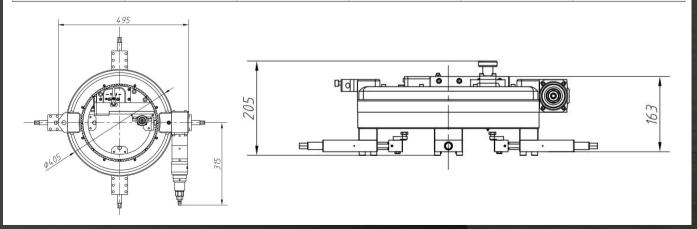
An externally mounted flange facing machine for all types of flange facings, seal groove machining, weld preparation and counter boring.



- Lightweight, precision construction to optimise on-site performance
- Preloaded cross roller drive, ensuring robust, repeatable machining
- Geared continuous groove facing feeds for gramophone finish (ASME Standard)
- Swivel tool post for groove details included; no separate accessories required

The LAPP300e machine is supplied complete with toolkit including tools and inserts, air filter lubricator and hose connection, all required mounting feet and extensions, storage / shipping box, CE certificate, packing list and manual.

Shipping Dimensions Length Width Height mm inches mm inches 640 25 600 24 450 18



SB&ABSERIES

Pipe Cold Cutting and Beveling Machines

- Clamshell -

Steel Body SB



Both Rotary ring and Stationary ring made by steel. This is the traditional UK material. A little heavier for on-site machine.

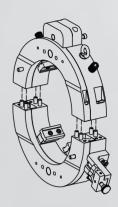
Aluminum Body AB



This is our new machine, stationary ring made by aluminum. Steel where strength is needed, aluminum where strength is less critical than weight.

Lightweight makes more convenient for operator.

- Split frame -



OD-Mounted Pipe Cutting and Beveling Machine

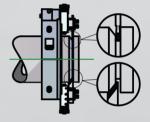
The series machine is ideal for all types of pipe cutting, beveling and end preparation. The split frame design allows the machine to split in half at the frame and mount around the OD of the in-line pipe or fittings for strong, stable clamping. The equipment performs precision in-line cut or simultaneous cut/bevel,single point, counterbore and flange facing operations, as well as weld end preparation on open ended pipe, Ranging from 3/4 to 56 inches O.D.(DN20-1400), on most wall thicknesses and material

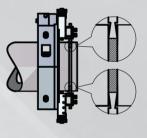












Optional Accessories



Tracking Tool Slide

O.D. tracking slide compensate for outof-round pipe

Features

Split frame

Machine quickly split to mount around outside diameter of in-line pipe

Cut or Cut/Bevel simultaneously
Cuts and bevels simultaneously leaving a clean precision prep ready for welding

Hot torch cutting requires grinding and produces an undesirable heat affected zone

Cold cutting/beveling also improves safety

Low Axial & Radial Clearance

Tool feed automatically

Cut and bevel pipe of any wall thickness.

Materials include: Carbon steel, alloy, stainless

steel as well as other material

Pneumatic, electric and hydraulic type for option

Machining OD of pipe from 3/4" up to 56"



Universal Counter Boring Tool Slide

The tool slide performs boring and inside beveling





SB&ABSERIES

Pipe Cold Cutting and Beveling Machines

Specification

Drive Options: Pneumatic, Hydraulic, and Electric
Air requirement: 1500L-3000L Per minute @0.6/0.7Mpa
Hydraulic requirement: 2-60L per minute @12.5Mpa
Electric requirement:220-240V 1PH 50/60HZ
Feed mode: Star wheel, automatically
Feed rate: Fixed@0.08mm per circle
Packaging: Plywood case

Air Type ODP Series Power Supply: 1500-3000L/Min@0.6/0.7Mpa

Advantage
Explosion Proof
Stable Performance
Simple structure makes easy to maintenance
Occasionally overload no damage

Electric Type ODE Series

(METAOBO Motor is available)
Power Supply: 220-240V 1PH 50/60HZ
Advantage
Low Energy
Power:1600-2400W
Self-made, easy to maintenance







Selection Guide

17 sizes machine for options.

Consult with us for special size.

For narrow working condition, pay attention to the axial and radial clearance.

Model	Working R	Wall	
WOUGI	Inch	mm	Thickness
SB002006	2 - 6	50 - 168	≤30
SB003008	3 - 8	80 - 230	≤30
SB004010	4 - 10	100 - 275	≤30
SB006012	6 - 12	168 - 325	≤30
SB008014	8 - 14	219 - 377	≤30
SB010016	10 - 16	273 - 426	≤30
SB012018	12 - 18	300 - 457	≤30
SB014020	14 - 20	355 - 508	≤30
SB016022	16 - 22	400 - 560	≤30
SB018024	18 - 24	457 - 610	≤30
SB020026	20 - 26	508 - 660	≤30
SB022028	22 - 28	550 - 715	≤30
SB024030	24 - 30	600 - 762	≤30
SB026032	26 - 32	660 - 813	≤30
SB030036	30 - 36	762 - 914	≤30
SB036042	36 - 42	914 - 1066	≤30
SB042048	42 - 48	1066 - 1230	≤30

Tooling Chart

CUTTING TOOLS				
Description	Part Number	Application	Sketch	
5x25x100mm		Standard cutting, for most		
M42 Cutting tool	42C-5100	materials up to 30mm		
6x25x200mm		Longer cutting tool, both ends have blade, for most		
M42 Cutting tool	42C-6200	materials up to 60mm		
8x25x200mm		Longer cutting tool, both ends have blade, for most		
M42 Cutting tool	42C-8200	materials up to 60mm		

COUNTERBORING TOOL						
Description	Part Number	Application	Sketch			
M42		For pipe Counterboring				
Counterboring tool	ounterboring tool 42T install on the counter boring tool slide					

	BEVELING TOOLS					
Description	Part Number	Application	Sketch			
12x20x104mm	42B-RH1220-30°	Dischallend Chandend				
M42 Beveling tool	42B-RH1220-35°	Right Hand Standard beveling tool for most materials up to 30mm				
	42B-RH1220-37.5°	materials up to somm				
12x20x104mm	42B-LH1220-30°	Right Hand Standard beveling tool for most				
M42 Beveling tool	g tool 42B-LH1220-37.5° materials up to 30mm	•				
12x20x150mm	42B-CB1220-10°X30°	Right Hand 10°X30°, for most materials up to 30mm				
M42 Compound Beveling tool	42B-CB1220-10°X37.5°	Right Hand 10°X37.5° as per ASME B(16). 25 for most materials up to 30mm				
25x25x150mm	42B-CB2525-10°X30°	Right Hand 10°X30°, for most materials up to 60mm				
M42 Compound Beveling tool	42B-CB2525-10°X37.5°	Right Hand 10°X37.5° as per ASME B(16). 25 for most materials up to 60mm				
25x25x200mm	42B-2525-10°	Longer beveling tool, both				
M42 Beveling tool	42B-2525-30°	ends have blade, for most materials up to 60mm. Fit				
	42B-2525-37.5°	the heavy wall tool slide				

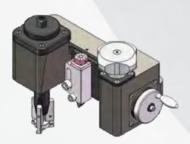
HF14I SERIES

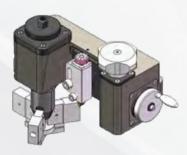
Manual Flange Facing Machine

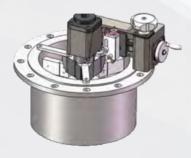
1.07"-14" (27.2-355.6mm)

Features

- Manual operated, No power source
- Explosion-proof
- Quick and easy set up
- Portable, durable trolley case







Three sizes of mounting chassis covering Dia. 27.2-270mm ensure stability during machining



Specifications

Min. Facing Dia.	27.2mm / 1.07"
Max. Facing Dia.	355.6mm / 14"
Min. Clamping Dia.	27.2mm / 1.07"
Max. Clamping Dia.	270mm / 10.63"
Fine Finish-Feed Screw	0.125mm/r / 0.005"
ASME B16.5-Feed Screw	0.5mm/r /0.02"
Tool Post Travel-Vertical	40mm / 1.57"
Tool Post Travel-Horizontal	57mm / 2.24"
Driven	Manually
Working Weight	9 Kgs
Shipping Weight	29 kgs
Shipping Dimensions	680x510x250mm

Standard Supply

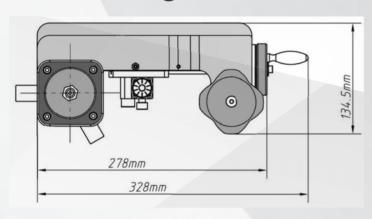
Extention legs-N1, N2, N3, N4
Extention legs-B1, B2, B3, B4
Extention Legs-L1, L2, L3, L4
Spring- L 115mm
Spring- L 300mm
Allen keys, set
Spanner 17mm
Plastic Hammer
Dia Gauge
Manual

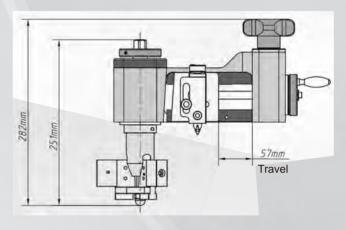
Package





Dimension Figure





Application











VICTORY SERIES

Pipe Beveling Machines

- Cutter can hold 3 tool bits process in one time Automatic welding require the OD
 Beveling, facing and internal beveling. Only 3 side processing finish in one time can
 guarantee the precision of beveling. The cutter can install 3 pcs tool bits, meet the demands.
- New expanding structure new designed expanding structure makes the fix more stable and low failure rate
- **3.** New-design main shaft fixation there will be smaller gap of the machine. Performs beveling more smooth, less vibration.







Driven Option:

V1P Air Operated V1E Electric Opetrated, China Motor V1B Electric Operated, BOSCH Motor

Clamping Range (ID): 16-25mm Working Range (OD): 1" (33.4mm)







Specification

Model	V1P	V1E	V1B
Driven	Pneumatic	Electric	Bosch Motor
Power Supply	900L/Min @ 0.6Mpa	220-240V 1PH 50/60HZ	220-240V 1PH 50/60HZ
Motor Power	1 HP	720W	850W
Clamping Range (ID)	16-25	16-25	16-25
Working Range (OD)	1"(33.4mm)	1"(33.4mm)	1"(33.4mm)
Wall Thickness	< 8mm	< 8mm	< 8mm
Rotation Speed	66r/min	52r/min	48r/min
Working Weight	7kg	8kg	8kg
Shipping Weight	14kg	16kg	16kg
Packing Size	540*410*170mm	540*410*170mm	540*410*170mm
Tool Number	2	2	2





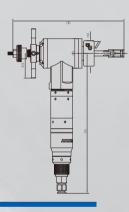


Tool Bits

Standard Tool, V Type Prep. U Type Prep. Facing,Inside Beveling
*Consult with us for special demand

Standard Supply:

Machine. Driven motor, full set expanding blocks, 3 pcs tool bits. (1 Facing tool, 1x30deg. Beveling 1x37.5 deg Beveling)







Driven Option:

V3P Air Operated V3E Electric Opetrated, China Motor V3B Electric Operated, BOSCH Motor



Clamping Range (ID): 25-76mm Working Range (OD): 3" (88.9mm)

Model	V3P	V3E	V3B
Driven	Pneumatic	Electric	Bosch Motor
Power Supply	900L/Min @ 0.6Mpa	220-240V 1PH 50/60HZ	220-240V 1PH 50/60HZ
Motor Power	1 HP	720W	850W
Clamping Range (ID)	25-76	25-76	25-76
Working Range (OD)	3"(88.9mm)	3"(88.9mm)	3"(88.9mm)
Wall Thickness	< 15mm	< 15mm	< 15mm
Rotation Speed	66r/min	52r/min	48r/min
Working Weight	8.5kg	9kg	9kg
Shipping Weight	15kg	16kg	16kg
Packing Size	540*410*170mm	540*410*170mm	540*410*170mm
Tool Number	3	3	3











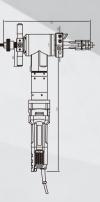


Tool Bits

Standard Tool, V Type Prep. U Type Prep. Facing,Inside Beveling
*Consult with us for special demand

Standard Supply:

Machine. Driven motor, full set expanding blocks, 3 pcs tool bits. (1 Facing tool, 1x30deg. Beveling 1x37.5 deg Beveling)





Hydraulic Cylinders

LRSM-Series Flat Low Height Cylinder

Compact, flat design for use where other cylinders will not fit. High capacity have handle for easy carrying. Single acting with spring return.



Model No.	Capacity	Lifting.H	Min.H	Cylinder Dia.	Oil capacity	Piston Dia.	Weight
	(T)	(mm)	(mm)	(mm)	(cm³)	(mm)	(kgs)
LRSM-50	5T	6	32	58 ' 41	4	25.4	
LRSM-100	10T	12	42	82 ' 55	18	38.1	1.5
LRSM-200	20T	11	51	101 ' 76	32	50.8	3.2
LRSM-300	30T	13	58	117 ' 95	55	63.4	5
LRSM-500	50T	16	66	140 ' 114	99	69.8	7.5
LRSM-750	75T	16	79	165 ' 139	164	82.6	11.3
LRSM-1000	100T	16	85	178 ' 153	203	92.2	18
LRSM-1500	150T	16	100	215 ' 190	317	114.3	36

LRCS-Series Short Cylinder

Light weight low profile design for use in confined spaces.

Grooved plunger end with threaded holes for mounting tilt saddles.



Model No.	Capacity	Lifting.H	Min.H	Cylinder Dia. Oil capacity		Piston Dia.	Weight
	(T)	(mm)	(mm)	(mm)	(cm³)	(mm)	(kgs)
LRCS-101	10T	38	88	70	55	38	4.1
LRCS-201	20T	45	98	92	127	50	5
LRCS-302	30T	62	117	101	255	65	6.8
LRCS-502	50T	60	112	124	381	70	10.9
LRCS-1002	100T	57	141	165	756	90	22.7
LRCS-1502	150T	51	162	205	1025	138	42.1

IRC SERIES



Min.H

(mm)

(mm)

Cylinder Dia. Oil capacity Piston Dia.

(cm³)

(mm)

Weight

(kgs)

Single-Acting Cylinders

Model No.

Capacity

(T)

Lifting.H

(mm)

Single acting by a heavy duty spring return. Collar threads, plunger threads and base mounting holes enable easy fixturing (on most models).

Designed for use in all positions (Horizontal and Vertical).



	()	()	()	()	(6111)	()	(3-)
LRC-50	5T	16	41	38	10	25.4	1.0
LRC-51	5T	25	110	38	16	25.4	1.0
LRC-53	5T	76	165	38	50	25.4	1.5
LRC-55	5T	127	215	38	83	25.4	1.9
LRC-57	5T	177	273	38	115	25.4	2.4
LRC-59	5T	232	323	38	151	25.4	2.8
LRC-101	10T	26	89	57	38	38.1	1.8
LRC-102	10T	54	121	57	78	38.1	2.3
LRC-104	10T	105	171	57	151	38.1	3.3
LRC-106	10T	156	247	57	225	38.1	4.4
LRC-108	10T	203	298	57	292	38.1	5.4
LRC-1010	10T	257	349	57	370	38.1	6.4
LRC-1012	10T	304	400	57	441	38.1	6.8
LRC-1014	10T	356	450	57	516	38.1	8.2
LRC-151L	15T	25	124	69	51	41.4	3.3
LRC-152	15T	51	149	69	104	41.4	4.1
LRC-154	15T	101	200	69	207	41.4	5.0
LRC-156	15T	152	271	69	309	41.4	6.8
LRC-158	15T	203	322	69	412	41.4	8.2
LRC-1510	15T	254	373	69	516	41.4	9.5
LRC-1512	15T	305	423	69	619	41.4	10.9
LRC-1514	15T	356	474	69	723	41.4	11.8
LRC-251	25T	26	139	85	83	57.2	5.9
LRC-252	25T	50	165	85	169	57.2	6.4
LRC-254	25T	102	215	85	339	57.2	8.2
LRC-256	25T	158	273	85	528	57.2	10.0
LRC-258	25T	210	323	85	697	57.2	12.2
LRC-2510	25T	261	374	85	863	57.2	14.1
LRC-2512	25T	311	425	85	1033	57.2	16.3
LRC-2514	25T	362	476	85	1202	57.2	17.7
2014	201	002	470	00	1202	07.2	17.3
LRC-308	30T	209	387	101	880	57.2	18.1
LRC-502	50T	51	176	127	384	79.5	15.0
LRC-504	50T	101	227	127	727	79.5	19.1
LRC-506	50T	159	282	127	1134	79.5	23.1
LRC-5013	50T	337	460	127	2403	79.5	37.6
		455	05-	4.1-	40	05.5	00 -
LRC-756	75T	156	285	146	1601	95.2	29.5
LRC-7513	75T	333	492	146	3427	95.2	59.0
LRC-1006	95T	168	357	177	2239	104.9	59.0
LRC-10010	95T	260	449	177	3466	104.9	72.6
					5.00		





Single Acting Hollow Cylinders

LRCH-Series Single Acting Hollow Cylinder

Hollow plunger design allows for both pull and push forces, single acting spring return. Collar threads for easy fixturing.



Model No.	Capacity	Lifting.H	Min.H	Cylinder Dia.	Oil capacity	Hollow Dia.	Weight
	(T)	(mm)	(mm)	(mm)	(cm³)	(mm)	(kgs)
LRCH-120	12T	8	55	69	14	19.6	1.5
LRCH-121	12T	42	120	69	75	19.6	2.8
LRCH-123	12T	76	184	69	136	19.6	4.4
LRCH-202	20T	49	162	98	150	26.9	7.7
LRCH-206	20T	155	306	98	476	26.9	14.1
LRCH-302	30T	64	178	114	298	33.3	10.9
LRCH-306	30T	155	330	114	722	33.3	21.8
LRCH-603	60T	76	247	159	626	53.8	28.1
LRCH-606	60T	153	323	159	1259	53.8	35.4
LRCH-1003	100T	76	254	212	1011	79	63

LCLP-Series Short Pancake Locknut Cylinder

Extremely low height for use in confined areas. Safety lock nut for mechanical load holding. Overflow port functions as a stroke limiter.



Model No.	Capacity	Lifting.H	Min.H	Cylinder Dia.	Oil capacity	Weight
	(T)	(mm)	(mm)	(mm)	(cm³)	(kgs)
LCLP-602	60T	50	125	140	432	15
LCLP-1002	100T	50	137	175	734	26
LCLP-1602	160T	45	148	220	1040	44
LCLP-2002	200T	45	155	245	1285	57
LCLP-2502	260T	45	159	275	1650	74
LCLP-4002	400T	45	178	350	2517	134
LCLP-5002	520T	45	192	400	3287	189

LCLRG SERIES



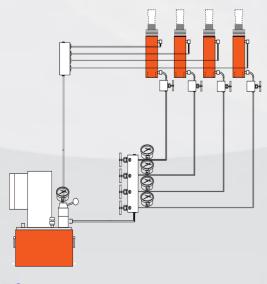
Double-Acting High Tonnage Cylinders

Double acting for push and pull. Safety valve in retract side of cylinder helps to prevent damage in case of accidental overpressurization special bearing design withstands side load forces up to 10% of rated cylinder capacity without scoring.





Multi-Cylinder Lifting System



					linder Die Gil eenseite Bieten Die				
Model No.	Capacity (T)	Lifting.H (mm)	Min.H (mm)	Cylinder Dia. (mm)	Oil capacity (cm³)	Piston Dia. (mm)	Weight (kgs)		
LCLRG-502	50T	50	162	130	385	70	17		
LCLRG-504	50T	100	212	130	770	70	20		
LCLRG-506	50T	150	262	130	1155	70	25		
LCLRG-508	50T	200	312	130	1540	70	36		
LCLRG-5010	50T	250	362	130	1924	70	31		
LCLRG-5012	50T	300	412	130	2309	70	34		
LCLRG-1002	100T	50	182	165	664	95	19		
LCLRG-1004	100T	100	232	165	1327	95	29		
LCLRG-1006	100T	150	282	165	1991	95	40		
LCLRG-1008	100T	200	332	165	2655	95	50		
LCLRG-10010	100T	250	382	165	3318	95	61		
LCLRG-10012	100T	300	432	165	3982	95	71		
LCLRG-1502	150T	50	196	205	993	114	39		
LCLRG-1504	150T	100	246	205	1986	114	52		
LCLRG-1506	150T	150	296	205	2978	114	65		
LCLRG-1508	150T	200	346	205	3971	114	78		
LCLRG-15010	150T	250	396	205	4964	114	92		
LCLRG-15012	150T	300	446	205	5957	114	105		
LCLRG-2002	200T	50	216	235	1330	133	55		
LCLRG-2006	200T	150	316	235	3989	133	91		
LCLRG-2008	200T	200	366	235	5000	133	110		
LCLRG-20012	200T	300	446	235	7977	133	146		
LCLRG-2502	250T	50	235	275	1832	165	89		
LCLRG-2506	250T	150	335	275	5497	165	136		
LCLRG-2508	250T	200	385	275	7200	165	170		
LCLRG-25012	250T	300	485	275	10993	165	207		
LCLRG-3002	300T	50	312	310	2281	197	184		
LCLRG-3006	300T	150	412	310	6843	197	232		
LCLRG-3008	300T	200	462	310	8900	197	270		
LCLRG-30012	300T	300	562	310	13685	197	303		
LCLRG-4002	400T	50	375	350	2800	216	270		
LCLRG-4006	400T	150	475	350	8399	216	330		
LCLRG-4008	400T	200	525	350	11500	216	380		
LCLRG-40012	400T	300	625	350	16797	216	421		
LCLRG-5002	500T	50	419	400	3653	248	401		
LCLRG-5006	500T	150	519	400	10959	248	480		
LCLRG-5008	500T	200	569	400	15630	248	510		
LCLRG-50012	500T	300	669	400	21918	248	599		
LCLRG-6002	600T	50	429	430	4276	267	474		
LCLRG-6006	600T	150	529	430	12829	267	565		
LCLRG-6008	600T	200	579	430	18009	267	620		
LCLRG-60012	600T	300	679	430	25659	267	701		
LCLRG-8002	800T	50	474	505	5861	317	741		
LCLRG-8006	800T	150	574	505	17644	317	868		
LCLRG-8008	800T	200	624	505	25000	317	950		
LCLRG-80012	800T	300	724	505	35286	317	1058		
LCLRG-10002	1000T	50	564	560	7329	343	1062		
LCLRG-10002 LCLRG-10006	1000T	150	664	560	21986	343	1213		
LCLRG-10008	1000T	200	714	560	32896	343	1300		
	10001	200	7 14	500	02030	0-10	1300		

Hydraulic Cylinder Pumps

LPE-Series Portable Electric Pumps Single Acting



Model No.	Usable Oil	Pump Type	Pressure Rating (bar)		Oil Flo	ow (I/m)	Power	Power	Weight	
	(L)	.,,,,,	LP	HP	LP	НР	kw	V	(kg)	
LPE4	5L	Two-Speed	40	700	3	0.25	0.4	220	13	

LPE-Series Portable Electric Pumps Double Acting



Model No.	Usable Oil	Pump	Pressur	Pressure Rating		Oil Flow (I/m)		Power	Weight
	Capacity	Туре	(b	ar)					
	(L)		LP	HP	LP	HP	kw	v	(kg)
LPE10	28L	Two-Speed	70	700	6.2	1	1.5	380/220	50
LPE15	55L	Two-Speed	70	700	8.4	1.6	2.2	380/220	70
LPE25	55L	Two-Speed	70	700	9	2.2	3.0	380/220	74

LP-Series Single / Double Acting Hand Pump

For operation of single & double-acting cylinders. Max. Pressure : 70Mpa.





Model No.	. Usable Oil Pump		Pressure Rating		Oil Displacement		Max.	Piston	Weight
	Capacity	Type	(b	ar)	Per Stro	ke (cm³)	Handle Effort	Stroke	
	(cm³)		LP	HP	LP	HP	(kg)	(mm)	(kgs)
LP77	655	Two-Speed	14	700	16	2.41	43	25.4	6.8
LP80	3240	Two-Speed	25	700	16.22	2.46	47	25.4	15





Sales / Service / Rental / Flange Management / API, ASME, IChemE MJI Training

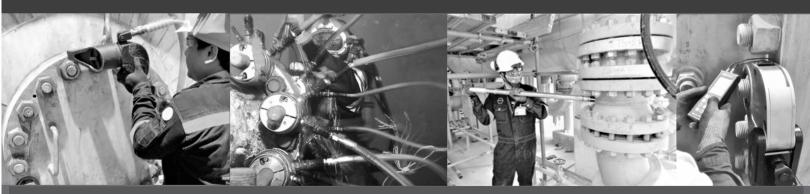
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