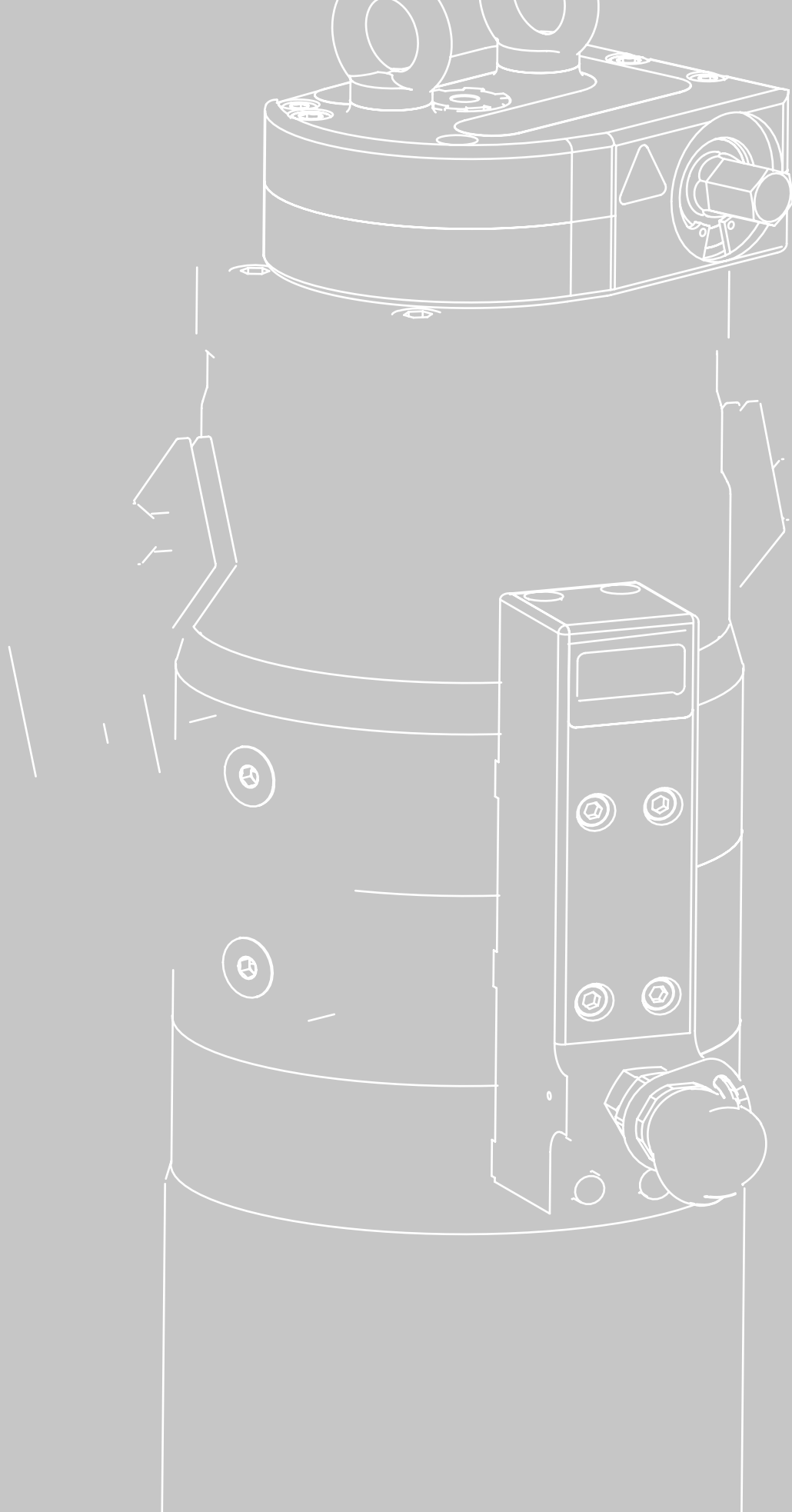




Leading Smart Bolting



BOLTING
TOOLS
& AUXILIARY
EQUIPMENT

Technology
& Innovation

Industry 4.0

- + Software Development
- + Smart Tools
- + IoT
- + Data Analytics
- + Autonomous Control

Virtual & Augmented Reality

- + Training
- + Support
- + Product Testing
- + Product Development
- + Demonstrations
- + Procedure Validation
- + Assembly Manuals
- + Repair Guides



The Academy

- + Taylor Made Courses
- + Flexible Plans
- + On-line and Presential
- + Practical Training Modules
- + Different Levels

CERTIFIED BOLTING
QUALIFICATION

25 years offering training courses

+ INFO





BOLT PILOT SYSTEM

COMPLETE PROCESS CONTROL
of all bolting activities



BLUETOOTH



WIFI



RFID



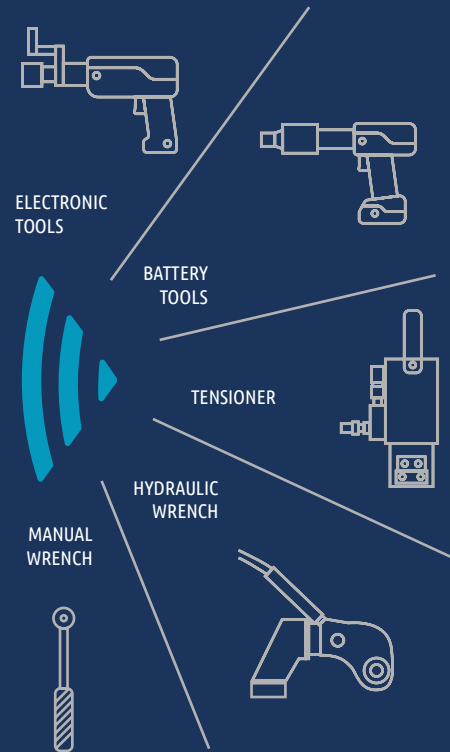
QR CODE



RADIO

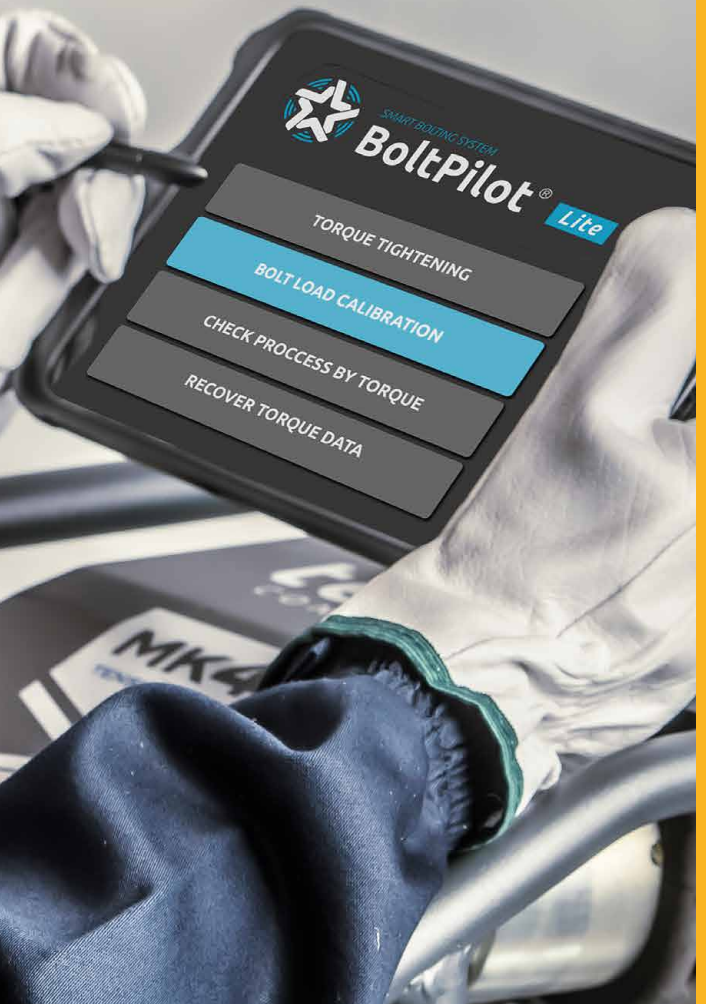
What, Who, When, Where, How

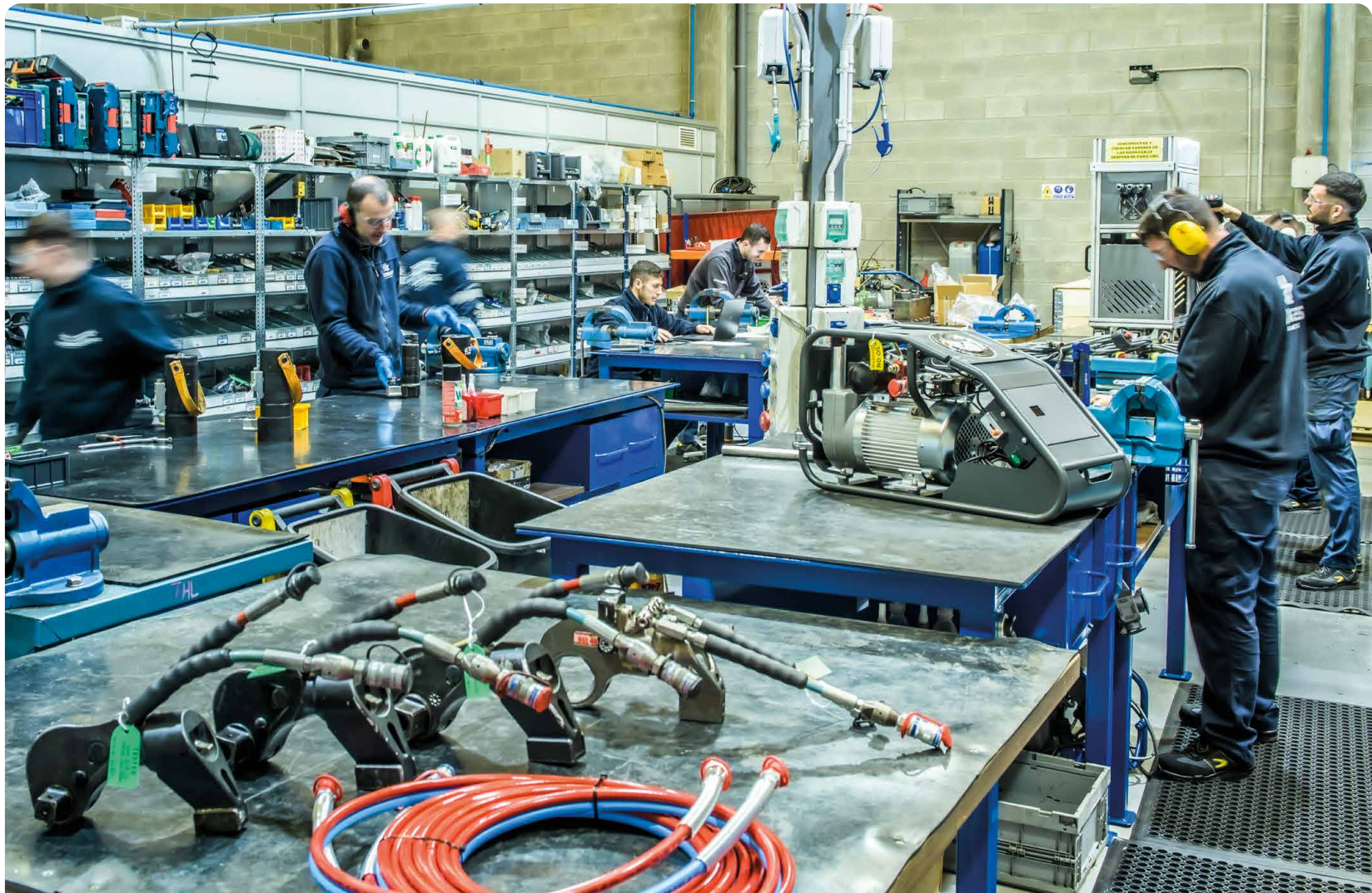
- + Torque and Angle Applied
- + Tension and Residual Elongation
- + Load Calibration Procedures
- + Manufacturer's Specific Procedures



Record All Bolt
Tightening
Processes

Scan the
QR Code
to watch
our
DEMO



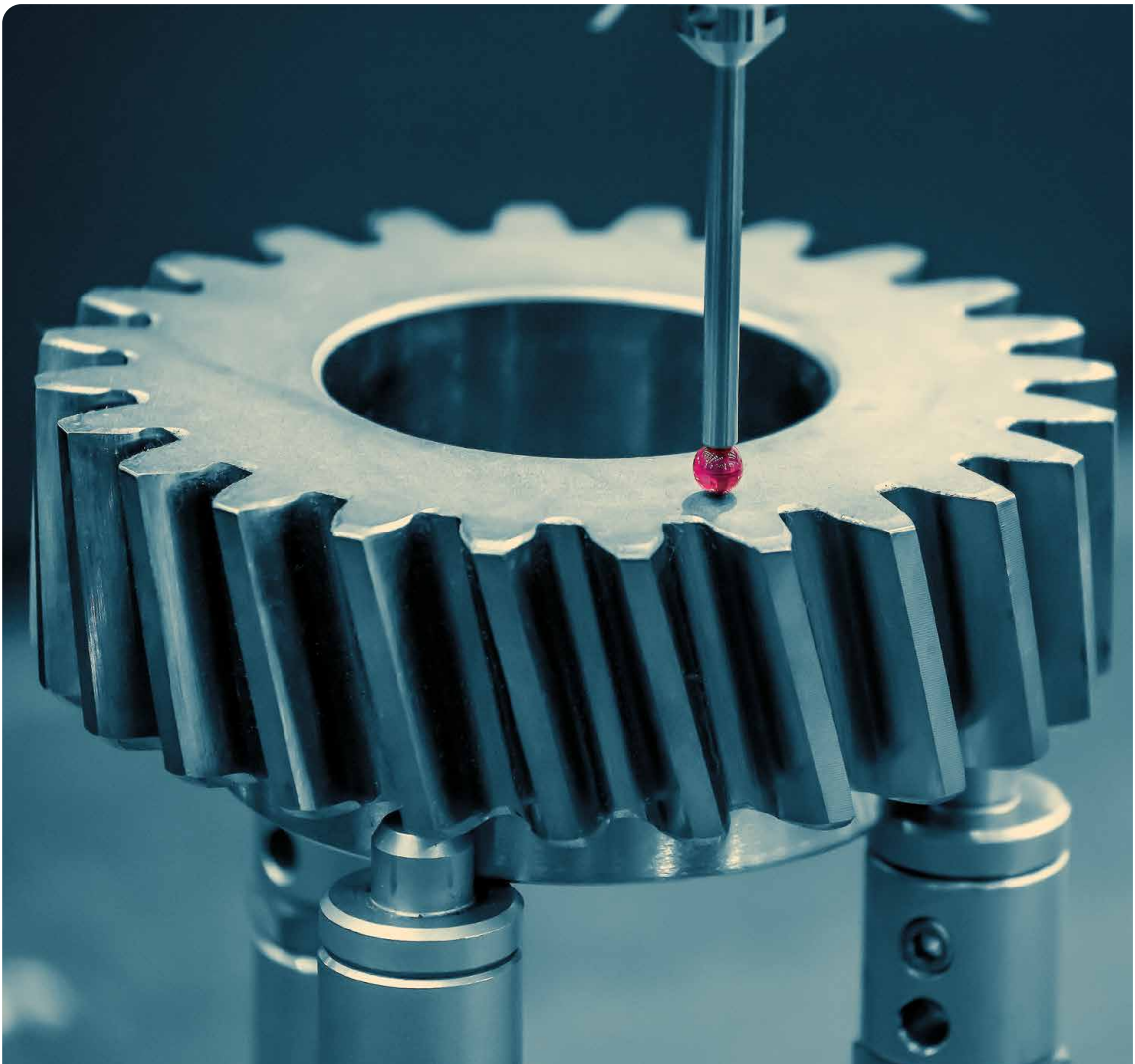


**Our factory
in Spain**

Our facilities are strategically located to provide excellent service to our customers by sea, air and land freight in the national and international markets

- + More than 3000 m² production facilities
- + Modern manufacturing techniques
- + Highly skilled workforce

+ INFO



**Design &
Manufactured
Tools
in our factory
in Bergondo**

International Standards

- + CE European Certificates
- + UKCA Certificate
- + RoHS Certificate
- + ASME PCC-1
- + ISO 9001
- + ISO 14001
- + ISO 45001
- + Testing & Evaluation

HIGH QUALITY CONTROL SYSTEM

Control of the processes
High qualified technicians
The highest quality raw materials and components
Quality inspection at production

Best-in-Class Quality Assurance System

+ INFO



Best Available Techniques

- + CAD, CAM and CAE
(Computer-aided design and manufacturing)
- + 3D printing
- + CNC Machining
- + Laser cutting for precise and efficient cutting of tool materials
- + Surface and Heat Treatments
- + Quality Control Systems
- + Automated Processes



Manufacturing machinery

- + 5-axis Milling Machines
- + CNC Lathes
- + 3D Printers
- + Test & Calibration Benches
- + Laser Engraving Machine
- + Auxiliary Machines



Our manufacturing plant specializes in advanced techniques for producing high-quality tools. Equipped with CAD/CAM software, 3D printing, laser technologies and machining, we create precise tools using composites and special alloys. Our tools are the best on the market, being strong, lightweight, and durable, giving the performance and reliability needed to succeed.



INDEX



Torque Tightening Equipment

- ✓ Hydraulic Torque Wrenches
- ✓ Electrical & Battery RAD Torque Systems
- ✓ Torque Wrenches: Manual Series



Smart Tools & Systems

- ✓ Smart Tensioning System
- ✓ Trolleys
- ✓ Shrink Disc Tightening System



Tensioning Equipment

- ✓ Hydraulic Bolt Tensioners
- ✓ Hydraulic Nuts



Measurement, Calibration & Verification

- ✓ Test & Calibration Systems
- ✓ BoltPilot® Load Calibrator
- ✓ Ultrasonic: BoltPilot Monitor®
- ✓ Control Devices
- ✓ Test systems



Hydraulic Pumps

- ✓ Compact Pumps (Torque)
- ✓ Compact Pumps (Tensioning)
- ✓ Compact Pumps (Torque & Tensioning)
- ✓ Factory Pumps
- ✓ Hydraulic Cilinders & Pumps



Services

- ✓ Rental
- ✓ Repair and Afters Sales
- ✓ Analysis, Diagnose and Solutions
- ✓ Measurements - Prototyping
- ✓ Ultrasonic Bolt Load Measurement
- ✓ Fleet Management
- ✓ Supervision
- ✓ Training - The Academy®

Hydraulic Torque Wrenches

SL SERIES · RSL HEX SERIES



SL SERIES

Simple design
Ultra resistant and durable
Reduce tightening times

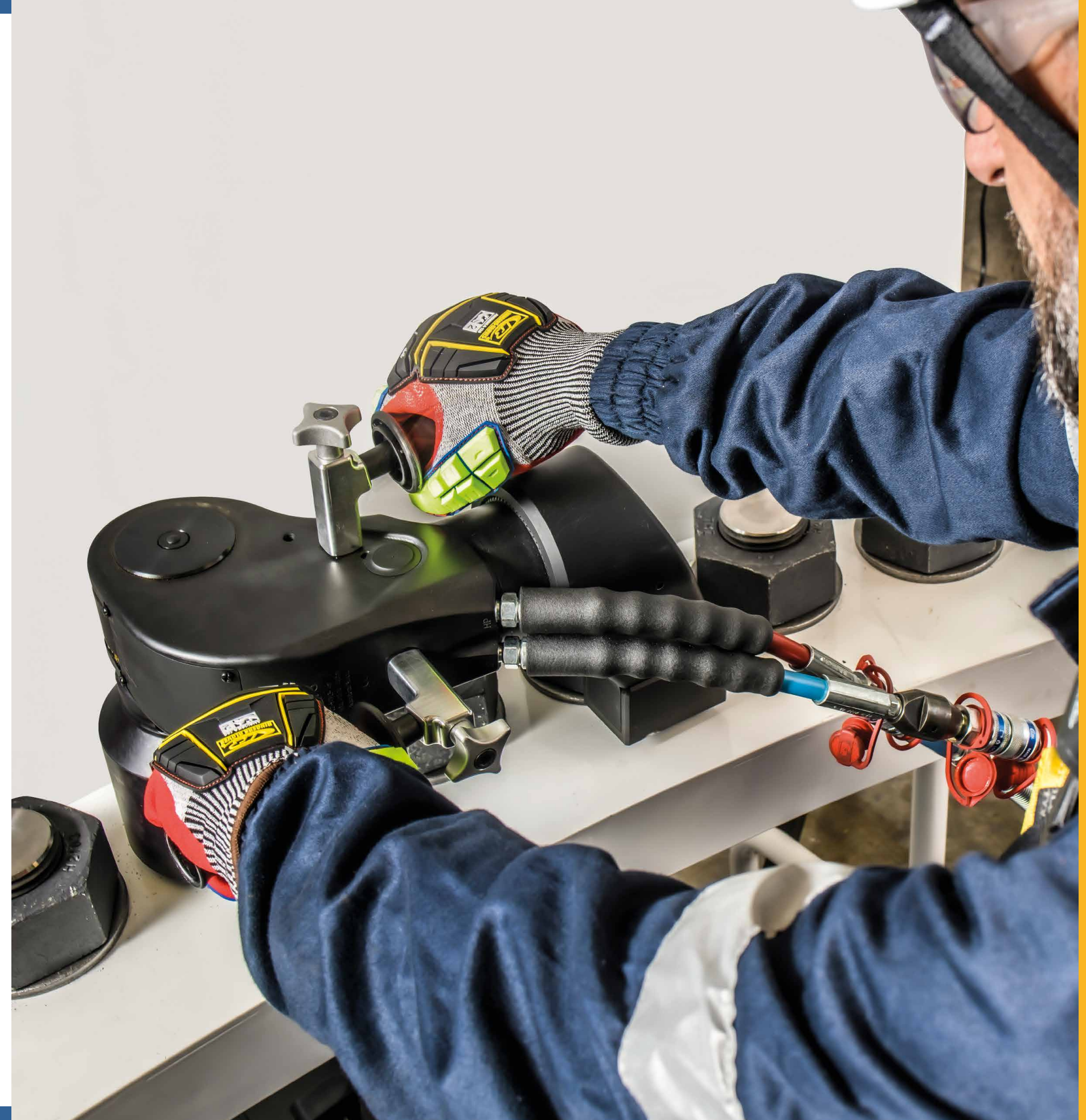
Max Pressure 800 bar

Transport Kit

RSL HEX SERIES

Best torque dimensions/weight ratio
Heavy duty
Extremely versatile

Max Pressure 690 bar





Model	Max Torque	Min Torque	SQ Drive	Weight
	Nm	Nm	in	Kg
SL1	2185	266	3/4"	3,5
SL3	4203	507	1"	6,05
SL5	5835	709	1 1/2"	7,95
SL7	8094	914	1 1/2"	9,75
SL9	12216	1551	1 1/2"	12,5
SL13	14898	1879	1 1/2"	18
SL21	26638	3405	2 1/2"	29
SL31	44935	6179	2 1/2"	41

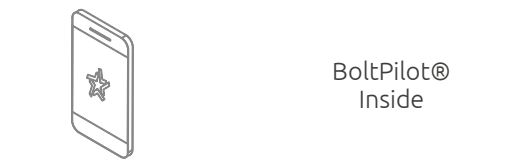
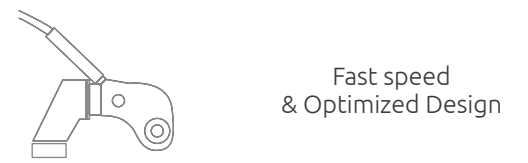
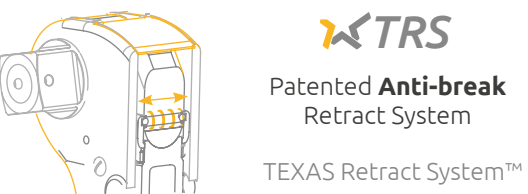
SL SERIES

Square Drive Units



Patented Retraction System

The most robust and reliable wrench in the market



>> Download here the Data Sheet



TEXAS Retract System™

Patented piston return system that prevents breakage or damage to components, specially in the instantaneous release of energy from the loosening process.



SL SERIES

SWIVEL OPTION

Optionally, it can include double rotating elbows that allow a combined rotation of the hoses of 360°



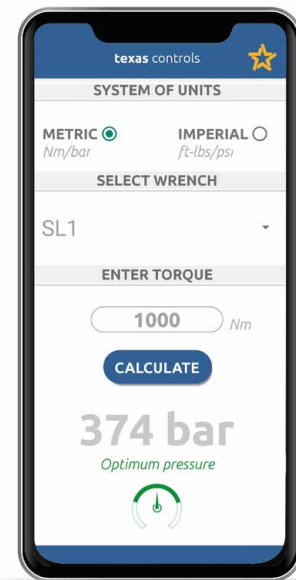
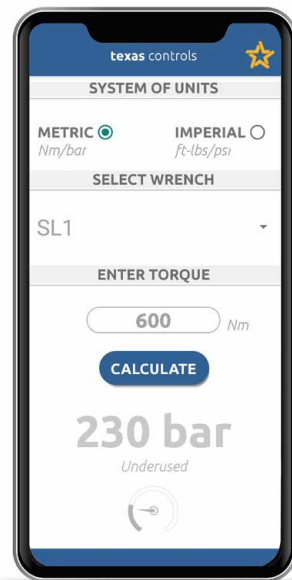
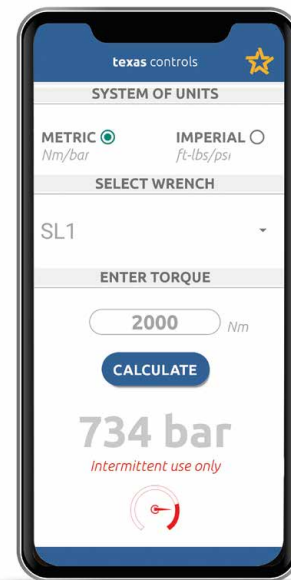
>> Download here the Data Sheet

360°



Tool Pressure Calculator

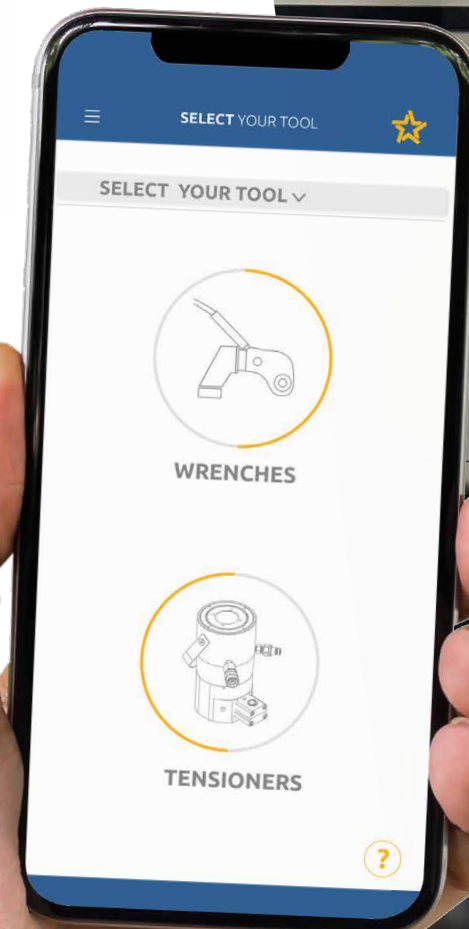
- Work without Mistakes
- Get the Exact Pressure Value
- Automatic Alerts



+ It allows to obtain the pressure value at which a pump must be regulated.

+ Efficient management, without mistakes in the change and with automatic warnings of adequate pressure.

Scan the
QR Code to down-
load
our
APP



AUXILIARY PRODUCTS FOR SL SERIES

Accessories



Handle Kit



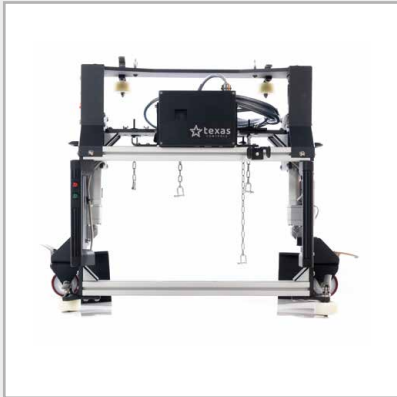
Angle Control Device (A-CoD)



Transport Kit



Safety Trigger Control Device (ST-CoD)



Trolley



Special Reaction Arms



Impact Sockets

On request

- + Direct Socket Drives
- + Adapted Reaction Arms
- + Allen/Hex Inserts/Drives
- + For other accessories please contact us: texas@texascontrols.com

Compatible Equipments

Pumps



MK 21



MK31 & MK31c



MK51 & MK51c

Hoses



Double Hose



Double Hose with data cable



Hose Bag

Ultra Heavy duty

- + Simplicity
- + Heavy duty
- + Quickness
- + Best torque-dimensions /Weight ratio

RSL HEX SERIES

Low Profile Units



BoltPilot® Inside



Connectivity



Handle



UK CA Certified



CE Certified

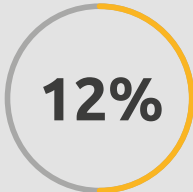
Extremely versatile: It allows to interchange hex cassettes for very space restrictive applications & different bolt sizes

Model	Max Torque <i>Nm</i>	Min Torque <i>Nm</i>	SQ Drive <i>in</i>	Weight <i>Kg</i>
RSL2	1787	266	3/4"	3,3
RSL4	3921	606	1"	5,9
RSL6	6751	994	1 1/2"	10
RSL8	10008	1530	1 1/2"	12
RSL14	14178	2091	1 1/2"	16,6
RSL20	24003	3928	2 1/2"	29,4
RSL30	35677	5113	2 1/2"	32,9



>> Download here the Data Sheet

RSL HEX · ONLY 3 MOVING PARTS · OPTIMUM SIZE-WEIGHT



SPEED INCREASE
during tightening processes



HEAVY DUTY
High resistance materials



INTERCHANGEABLE
HEX heads

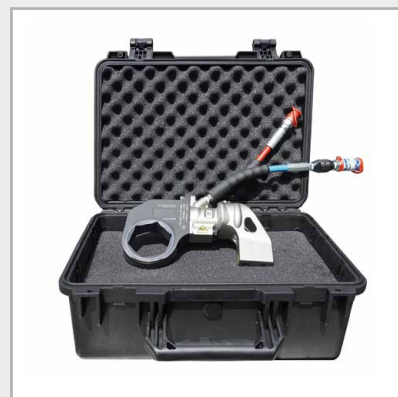


AUXILIARY PRODUCTS FOR RSL HEX SERIES

Accessories



Handle Kit



Transport Kit



Safety Trigger Control Device (ST-CoD)



Special Reaction Arms

On request

- + Direct Socket Drives
- + Adapted Reaction Arms
- + Allen/Hex Inserts/Drives
- + For other accessories please contact us: texas@texascontrols.com

Compatible Equipments

Pumps



MK 21



MK31 & MK31c

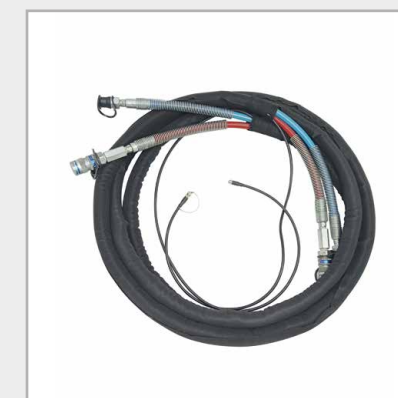


MK51 & MK51c

Hoses



Double Hose



Double Hose with data cable



Hose Bag

Electric · Battery **RAD** Torque Systems



E-RAD

ELECTRONIC SERIES

Ultra Heavy Duty tools
Highest speed & accuracy
Advanced data logging

Up to 16.500 Nm

More
info



Handle kit
& lifting devices
available



B-RAD-X

BATTERY SERIES

The best cost / quality ratio
Heavy Duty tools
Light & portable
Brushless motor

Up to 15.000 Nm



ELECTRONIC SERIES

E-RAD BLU

Torque range: 135 – 16.500 Nm



+/-
2%

Controlled bolting



Bluetooth Connectivity
RAD Smart Socket™



Non-impacting



LED indicator lights



75dB
Extremely low noise level

Model	Square Drive	Torque range	RPM	Weight
E-RAD BLU 950	3/4"	135-950 Nm	30	5,4 Kg
E-RAD BLU 2000	1"	270-2.000 Nm	9	5,9 Kg
E-RAD BLU 3400	1"	340-3.400 Nm	10	8,1 Kg
E-RAD BLU 3400-90°	1"	340-3.400 Nm	11	8,3 Kg
E-RAD BLU 4000	1"	675-4.050 Nm	8	10,6 Kg
E-RAD BLU 4000	1 1/2"	675-4.500 Nm	8	10,6 Kg
E-RAD BLU 8000	1 1/2"	1.385-8.100 Nm	4	13,0 Kg
E-RAD BLU 10K	1 1/2"	2.034-10.000 Nm	2	15,0 Kg
E-RAD BLU 15K	1 1/2"	4.050-15.000 Nm	2	20,1 Kg
E-RAD BLU 15K	2 1/2"	4.050-16.500 Nm	2	20,3 Kg

ELECTRONIC SERIES

E-RAD BLU-S

Torque range: 135 – 16.500 Nm

The E-RAD BLU-S has advanced features such as data logging and angular screw engagement



+/-
2%

Controlled bolting



Software Data Exchange



Torque & Angle Function



Non-impacting



LED indicator lights



75 dB
Extremely low noise level

INTEGRATED TORQUE TRANSDUCER

Measures and corrects the tightening torque on the bolt connection during tightening. This system eliminates all joint sensitivity.

CONTROL BOX

The E-RAD BLU-S Series control box provide the interface for all E-RAD BLU-S Tools. Whichever E-RAD is connected, the control box recognizes the model and calibration data of the tools. This allows the user to switch between multiple key tools and ensure error-free operation. Unlike conventional systems, no conversion tables are required for the tightening torque, the tightening torque is set directly on the control box.

Model	Square Drive	Torque range	RPM	Weight
E-RAD BLU 950-S	3/4"	135 - 950 Nm	15	8,1 Kg
E-RAD BLU 3400-S	1"	340 - 3.400 Nm	10	10,8 Kg
E-RAD BLU 4000-S	1"	675 - 4.050 Nm	8	13,3 Kg
E-RAD BLU 8000-S	1 1/2"	1.385 - 8.100 Nm	4	15,7 Kg
E-RAD BLU 10K-S	1 1/2"	2.034 - 10.000 Nm	2	17,7 Kg
E-RAD BLU 15K-S	1 1/2"	4.000 - 15.000 Nm	2	22,8 Kg

BATTERY SERIES NEW

B-RAD X

The most powerfull cordless torque tool on the market

Torque range: 700 – 15.000 Nm



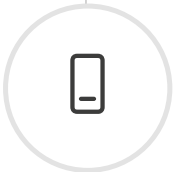
75dB
Extremely
low noise level

+/-
2%

Controlled bolting



Non-impacting



Anti-fatigue
trigger switch



Latch lock
to protect battery



Lithium-ion Battery

Model	Square Drive	Torque range	RPM	Weight
B-RAD X 7000-M	1,5"	700-7.000 Nm	2,4	10,5 Kg
B-RAD X 10K-M	1,5"	1.000-11.000 Nm	1,7	13,8 Kg
B-RAD X 15K-M	1,5"	1.500-15.000 Nm	1,2	19,3 Kg



The B-RAD X was born out of demand from our customers who wanted and needed more portability in a higher performing torque wrench.

- ✓ Brushless DC motor for added durability and accuracy.
- ✓ Redesigned anti-fatigue trigger switch.
- ✓ Standard handguard for added operator protection.
- ✓ Two-hand start option.
- ✓ Latch lock to protect battery from falling.
- ✓ 4-button interface with high-contrast LED display provides feedback during operation.

BATTERY SERIES
B-RAD Select

The B-RAD is especially suitable for jobs where electricity or compressed air are not available

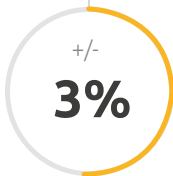


The lowest weight in its class

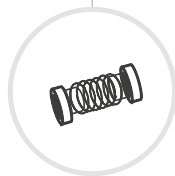
Torque range: 50 – 7.000 Nm



65 dB
Extremely low noise level



Controlled bolting



Automatic reaction arm release



Non-impacting



Lithium-ion Battery

Model	Square Drive	Torque range	RPM	Weight
B-RAD Select 275	1/2" or 3/4"	50-270 Nm	47	3,2 Kg
B-RAD Select 700	3/4"	170-700 Nm	21	3,5 Kg
B-RAD Select 1400	3/4"	300-1.400 Nm	10	3,5 Kg
B-RAD Select 1400-2	3/4"	300-1.400 Nm	71	4,3 Kg
B-RAD Select 2000	1"	400-2.000 Nm	6	4,0 Kg
B-RAD Select 2000-2	1"	400-2.000 Nm	19	4,9 Kg
B-RAD Select 4000	1"	800-4.000 Nm	3	6,0 Kg
B-RAD Select 4000-2	1"	800-4.000 Nm	19	6,7 Kg
B-RAD Select 7000	1,5"	1.400-7.000 Nm	2	8,8 Kg

BATTERY SERIES
MB-RAD

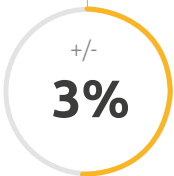
Torque range: 30 – 7.000 Nm



65 dB
Extremely low noise level



Software Data Exchange



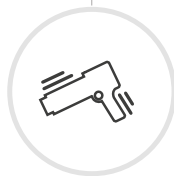
Controlled bolting



Bluetooth Connectivity



Torque & Angle Limits



Non-impacting



Lithium-ion Battery

Model	Square Drive	Torque range	RPM	Weight
MB-RAD 300	1/2"	30-300 Nm	48	3,5 Kg
MB-RAD 700	3/4"	70-700 Nm	21	3,5 Kg
MB-RAD 1400	3/4"	140-1.400 Nm	10	3,7 Kg
MB-RAD 2000	1"	200-2.000 Nm	6	4,3 Kg
MB-RAD 4000	1"	400-4.000 Nm	3	6,0 Kg
MB-RAD 7000	1,5"	700-7.000 Nm	2	8,7 Kg

AUXILIARY PRODUCTS FOR RAD TORQUE SYSTEMS

Reaction Arms



Standard Reaction Arm



Deep Reaction Arm



Double Ended Reaction Arm



Blank Reaction Arm



Double Ended Blank Reaction Arm



Safety Sliding On Request

Lifting Handle



Tool Handle

On request



Sliding Arm



Socket-type Arm



Second Bolt Reaction Arm

+ Bespoke designs under request
+ For other accessories
please contact us: texas@texascontrols.com

SMART SOCKETS Torque range: 200-16.200 Nm

Revolutionizing Home Automation and Convenience

The RAD Smart Socket™ Series, patented impact sockets from 27 mm – 110 mm. These sockets are able to measure the actual torque applied to the bolted joint with a maximum deviation of 1%.



Features

- + Measures and displays peak torque.
- + Built-in rechargeable li-ion battery “Pass”/ “Fail”, Track and Peak function
- + Data logging – download logs (XLS, CSV, PDF).
- + Full traceability of bolted joints.
- + Bluetooth connectivity.
- + Graphics live view function.
- + Preinstalled tablet with RAD Connect – PRODOCS App.

All RAD Smart Socket™ include:

Locking pin and o-ring	Weatherproof storage case	User manual
USB charger	Preinstalled tablet	Calibration certificate

+/-
1%

Maximum deviation

Non-impacting

Lithium-ion Battery

Software Data Exchange

Bluetooth Connectivity

Torque Wrenches

MANUAL SERIES

730N Wide Range. Standard and Digital Options



WITH TRIGGERING
When the set value is reached, the manoscope emits a clearly audible double stop signal



Multi-purpose

- + Extremely wide measuring range.
- + For precise applications up to 1000 Nm.
- + When the set value is reached, a clearly audible double stop signal is emitted.
- + Easy handling.
- + Quick adjustment from the outside without the need to disassemble the key.
- + With security locking "QuickRelease".
- + Wear resistant. Wear-free triggering system with flexion rod. Unlike conventional torque wrenches, a reset to 0 to release the spring is not necessary. The consequence is a correct and safe long-term measurement result, obtained quickly.
- + Clear assignment of the position setting.

/03



730D Universal talent with Data Recording



+ MULTIPLE ADAPTERS
See left page



Electromechanical Triggering



Optional Software **SensoMaster**



Interconnected



Ergonomic




Easy to read



SMART WRENCH

Part of our Smart Tensioning System



BoltPilot®
Inside




Torque
Control



Connectivity



Handle



UK
CA
Certified



CE
Certified

The **intelligent module** converts a standard torque wrench into a Smart Wrench, that can communicate with a Smart Pump through radio frequency signals.



Multi-purpose

- + This Smart Tool is part of our BoltPilot® ecosystem, and allows complete process control by confirming that the target torque is applied to the nut during a bolt tensioning process.
- + The operator doesn't have to activate any button or make something different from the usual. Simply place the wrench in the tensioner gearbox and operate it as usual, and it will automatically control the nut tightening process and send the corresponding signal to the pump when the nut is tightened.



SENSORIZATION

THE SMART MODULE
DETECTS WHEN THE
NUT IS TIGHTENED

(detect nut movement and/or
angle of rotation).



Databases



Servers



Codes



User Application





Tensioning Equipment

- 01. Hydraulic Bolt Tensioners
- 02. Hydraulic Nuts

Hydraulic Bolt Tensioners

BR SERIES · GR LD SERIES
GR SERIES · PD SERIES · CG SERIES




BoltPilot®
Inside



Handle




Connectivity




Easy
Repair



EASY TO USE
Easy Use



Strength
Steel



UK
CA
Certified



CE
Certified

BR SERIES



GR LD SERIES



Handle kit
& lifting devices
available

PD SERIES



GR SERIES



CG SERIES



/01



SAFETY DEVICE

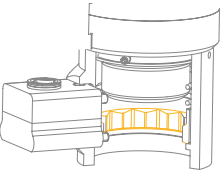


Anti-projection
Mechanism



The Most Advanced Industrial Tightening Tools

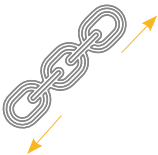
Innovative Design & High Quality Standards



Multi-Face
Socket



BoltPilot®
Inside



Robust Gear
Design



Anti-Projection
Mechanism




Quick Connect
Coupling




Custom
Designs

BR SERIES


When bolt protrusion is excessive our pass through **BR Tensioner** is your best solution




Easy Repair




Easy Use



Strength Steel



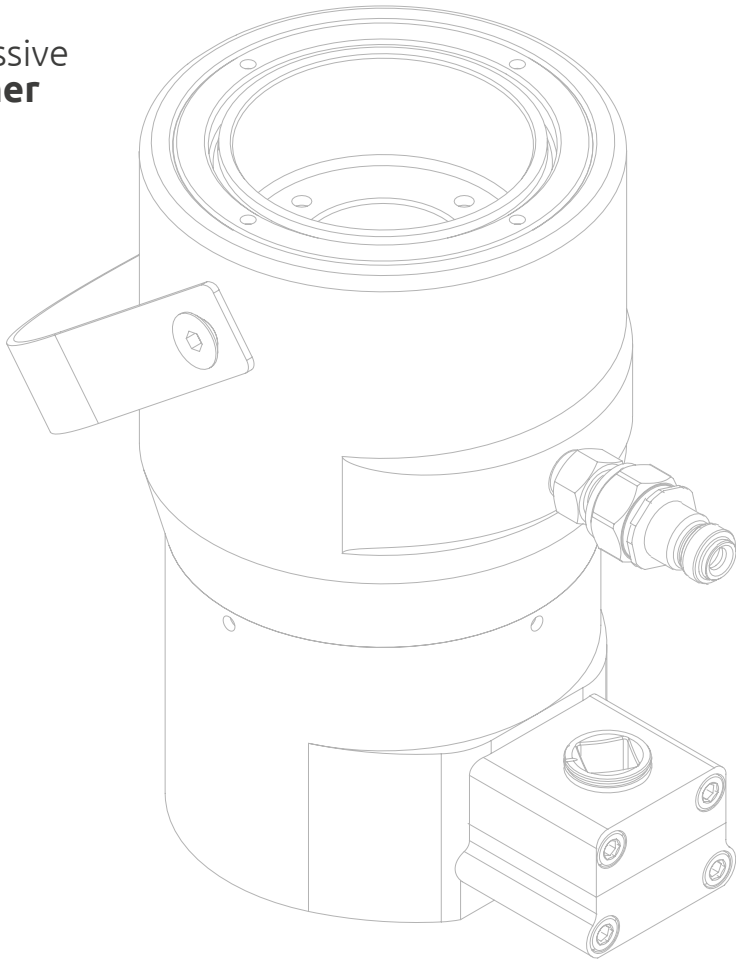
UK CA Certified




CE Certified

Main features

- + Anti-Corrosion surface treatment
- + Max. stroke up to 15 mm
- + High pressure quick connect couplings
- + Max Stroke indicator
- + Disc spring return system
- + Over stroke limiter
- + Ergonomic Handle



From Design



Large Bolt
Foundations

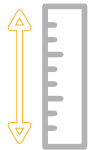
To the Market



Disc Spring Return System

Hollow tensioner for WTG foundations

Suitable for long protusion or special threads



Max. Stroke up to 15 mm



Anti-Corrosion Surface Treatment

GR LD SERIES

Dual Stage Tensioner.
Designed for **Blade & Tower**
and highly space restrictive
bolting applications

Easy Repair

Easy Use

Strength Steel

UK CA Certified

CE Certified

Main features

- + Quick and reliable pistons return system
- + Positive stop to avoid over stroking
- + Ergonomic handle
- + Easy to maintain and repair
- + Stroke indicator
- + Socket position in sight
- + The smallest diameter tensioners
- + Puller anti-projection system
- + Available with cycle counter
- + Special threads available under request


Model	Bolt Size	Max. Pressure	Load capacity	Hydraulic Pressure Area	Weight
		bar	kN	mm²	
GR20 LD	M20	1.500	196	1309,65	3,5
GR24 LD	M24	1.500	285	1.901,84	4,3
GR30 LDB	M30	1.350	462,5	3.426,00	6,5
GR33 LD	M33	1.350	562,1	4.163,63	7,1
GR36 LD	M36	1.350	674,4	4.995,65	8,8
GR39 LD	M39	1.350	803,5	5.952,13	10
GR42 LD	M42	1.500	974,5	6.496,84	13
GR45 LD	M45	1.500	1105	7.366,50	14
GR48 LD	M48	1.500	1193,7	7.957,95	15,8
GR52 LD	M52	1.500	1424,3	9.495,13	19
GR56 LD	M56	1.500	1671,5	11.143,61	25
GR64 LD	M64	1.500	2244,9	14.965,84	30,5
GR64 OS	M64	1.500	2408,4	16055,94	32,5


→ | ←
Slim Design



The smallest Diameter

Which favours its use in applications
with limited radial space

Metrics from
M20 to M64

Anti-Corrosion
Treatment

GR SERIES

Dual Stage Tensioner
Designed for Standard Bolting
Applications

Easy Repair

Easy Use

Strength Steel

UK CA Certified

CE Certified

Main features


- + Max stroke 7/8 mm
- + Stroke indicator
- + Disc spring return system
- + Metric & special threads available under request
- + Positive Stop
- + Puller anti-projection system
- + Tested and approved to run over 10.000 cycles minimum
- + Available with cycle counter


✓
Original Design
High resistance



Durability Performance

Robust for standard applications.
Provides greater durability

Greater
Durability

Anti-Corrosion
Treatment

Model	Bolt Size	Max. Pressure	Load capacity	Hydraulic Pressure Area	Weight
		bar	kN	mm²	
GR16	M16	1.350	132,53	981,8	3,5
GR27	M27	1.350	392,9	2911	5,5
GR30	M30	1.350	454,4	3366	6,4
GR33	M33	1.350	564,4	4.181	7,6
GR36	M36	1.350	672,7	4.983	8,5
GR36 HD	M36	1.350	672,9	4.985	8,9
GRS36	M36	1.500	672,1	4.481	7,6
GR39 HL	M39	1.400	798,8	5.706	9,4
GR39 HD	M39	1.400	798,8	5.706	12,0
GR42	M42	1.400	910,4	6.503	11,4
GRS48	M48	1.500	2.408,4	16055,94	32,5



Fast Tensioning Foundations

PD SERIES

Foundation Tensioner,
designed to stretch bars with a high protrusion

Easy Repair

Easy Use

Strength Steel

UK CA Certified

CE Certified

Optimized design

- + Max. Stroke 15 mm
- + Puller anti-projection system
- + Positive Stop
- + Slim design
- + Laser engraved elongation scale
- + Gear box
- + Improved square drive design
- + Disc spring return system
- + Special threads available under request

Model	Bolt Size	Max. Pressure	Load capacity	Hydraulic Pressure Area	Weight
		bar	kN	mm²	
GRB36	M36	1.350	657,8	4.872,61	10,3
GRB36os	M36	1.350	657,8	4.872,61	10,5
GRB42	M42	1.350	877,9	6.502,96	11,5
PD36	M36	1.500	579,9	3.866,28	10,3
PD39	M39	1.500	702,9	4.685,70	10,0
PD42	M42	1.500	787,6	5.250,56	11,3
PD48	M48	1.500	1.060,7	7.071,16	17,0
PD56	M56	1.500	1.461,6	9.744,14	25,0



Scale for
elongation
control
& improved
square
drive
design



Optimized Design Double hydraulic chamber

Ensures a high load in a smaller diameter



Favours its use
in applications
with limited radial space



Anti-Corrosion
Treatment



Suitable for Max.
Stud Protrusion

PD SERIES + *E-CoD*

Elongation Control Device

Measures foundation bars elongation
automatically and effortlessly



Wireless



Long Battery
Life

Key Features

- + Measurement range of 18 mm.
- + Measurement precision of 0.03 mm.
- + Option to work with 4 devices simultaneously.
- + Easy to use without interfering with the tensioning process.
- + Minimises human error in taking measurements.





→ | ←
Slim Design
Triple Decker

CG SERIES

Triple Stage Tensioner
Slim Design for Tower
Connections

Easy Repair

Easy Use

Strength Steel

UK CA
Certified

CE
Certified

Main features

- + Max stroke 10 mm
- + Max stroke indicator
- + Disc spring return system
- + Positive Stop
- + Puller anti-projection system
- + Special tooling for crane lifting under request

Model	Bolt Size	Max. Pressure	Load capacity	Hydraulic Pressure Area	Weight
		bar	kN	mm²	kg
CG64	M64	1500	2245,5	14971	31
CG36 HL	M36	1750	735	4200	14
CG42 HL	M42	1750	1009,43	5768,2	17
CG48 HL	M48	1750	1325,8	7576	21,5
CG56 HL	M56	1750	1827,65	10443,69	32,6
CG64 HL	M64	1750	2408,1	13760,6	39
CG72 HL	M72	2000	3115,33	15576,63	45,3



AUXILIARY PRODUCTS FOR TENSIONERS

Accessories



Elongation Control Device (E-CoD)



External Elongation Sensor



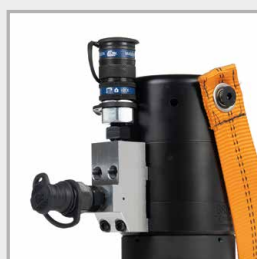
Nut Control Device (N-CoD)



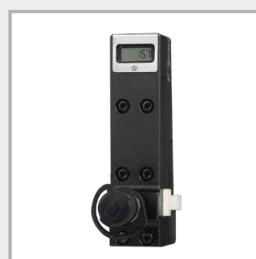
Puller Drive



Auxiliary lifting system



Multiple Pressure Connections Available



Digital Cycle Counter

Compatible equipments

Kits



Transport Kit

Trolley



Trolley

C-Frame



Tighten from underneath the flange

Stud Setters



Different bolt sizes

Compatible Equipments

Factory Pumps



MK45



MK41 Max Twin

Compact Pumps for tensioning



MK41x & MK41xc



MK41RC
(BoltPilot for Smart Tensioner)



MK51 & MK51c

Hoses



Simple hose



Hose with data cable



Hose Bag



Hydraulic Nuts

CUSTOM DESIGNS

Ideal for heavy-duty applications



- + Hydraulic nuts enable quicker intervention times for bolted joints that need tightening and loosening on a regular basis.
- + Available as bottom collar, top collar and shim type.
- + Supplied up to M250 in size (to date) (larger sizes under request).
- + Substitutes original nut, like combining a tensioner and permanent nut.
- + Low loss of applied load.
- + Special designs available.
- + High temperature solutions available.
- + Ideal for Tight Spaces.
- + Special threads and sizes available on request.



/02



PRECISION TIGHTENING

High Load Capacity
Uniform clamping force
Corrosion Resistance
Easy installation

*Reducing installation time
and effort*





Hydraulic Pumps

- 01. Compact Pumps (Torque)
- 02. Compact Pumps (Tensioning)
- 03. Compact Pumps
(Torque & Tensioning)
- 04. Factory Pumps
- 05. Hydraulic Cilinders & Pumps

Hydraulic Packs

Design & Control

Our pumps are capable of reaching pressures up to 2500 bar very quickly








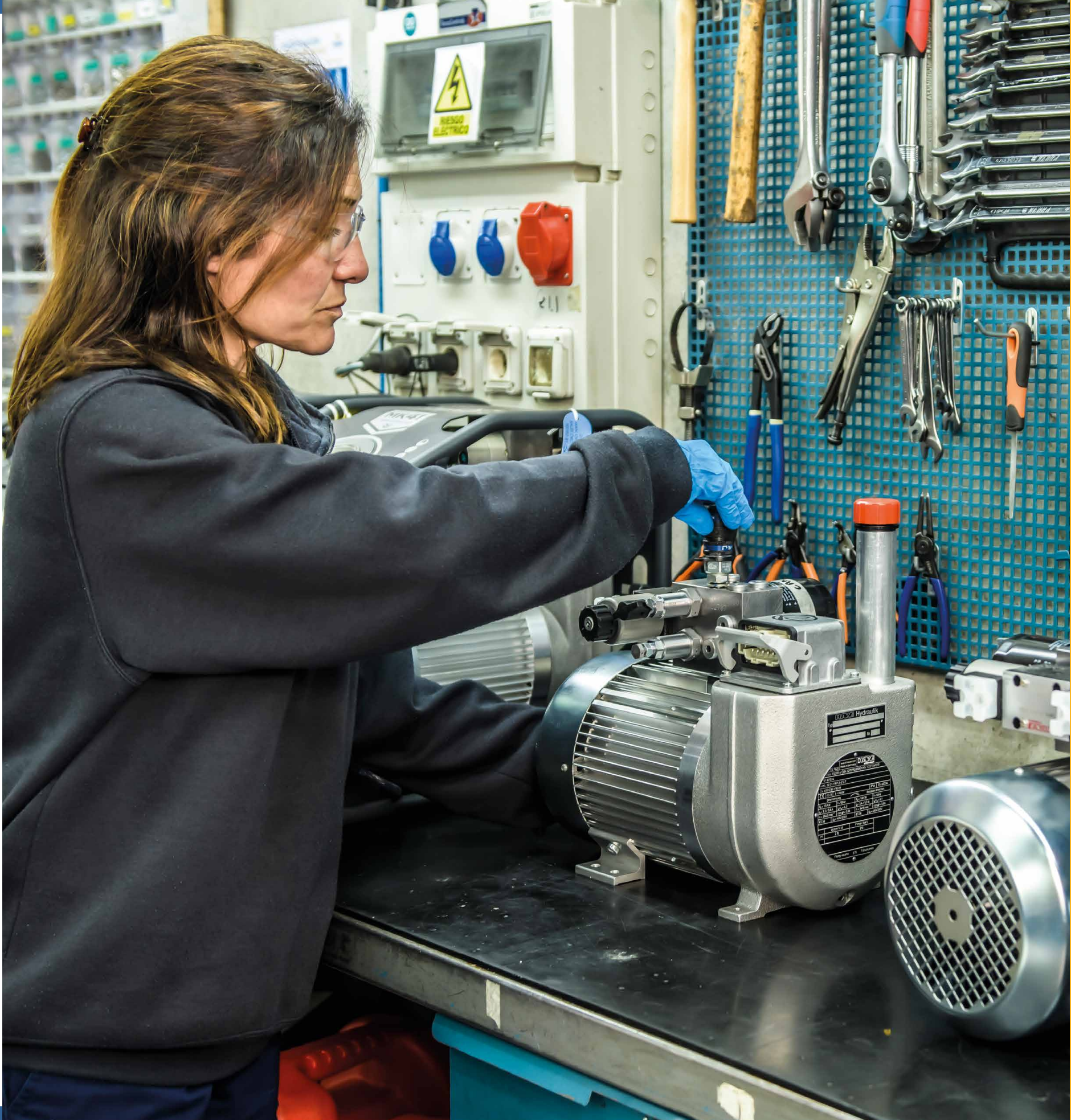
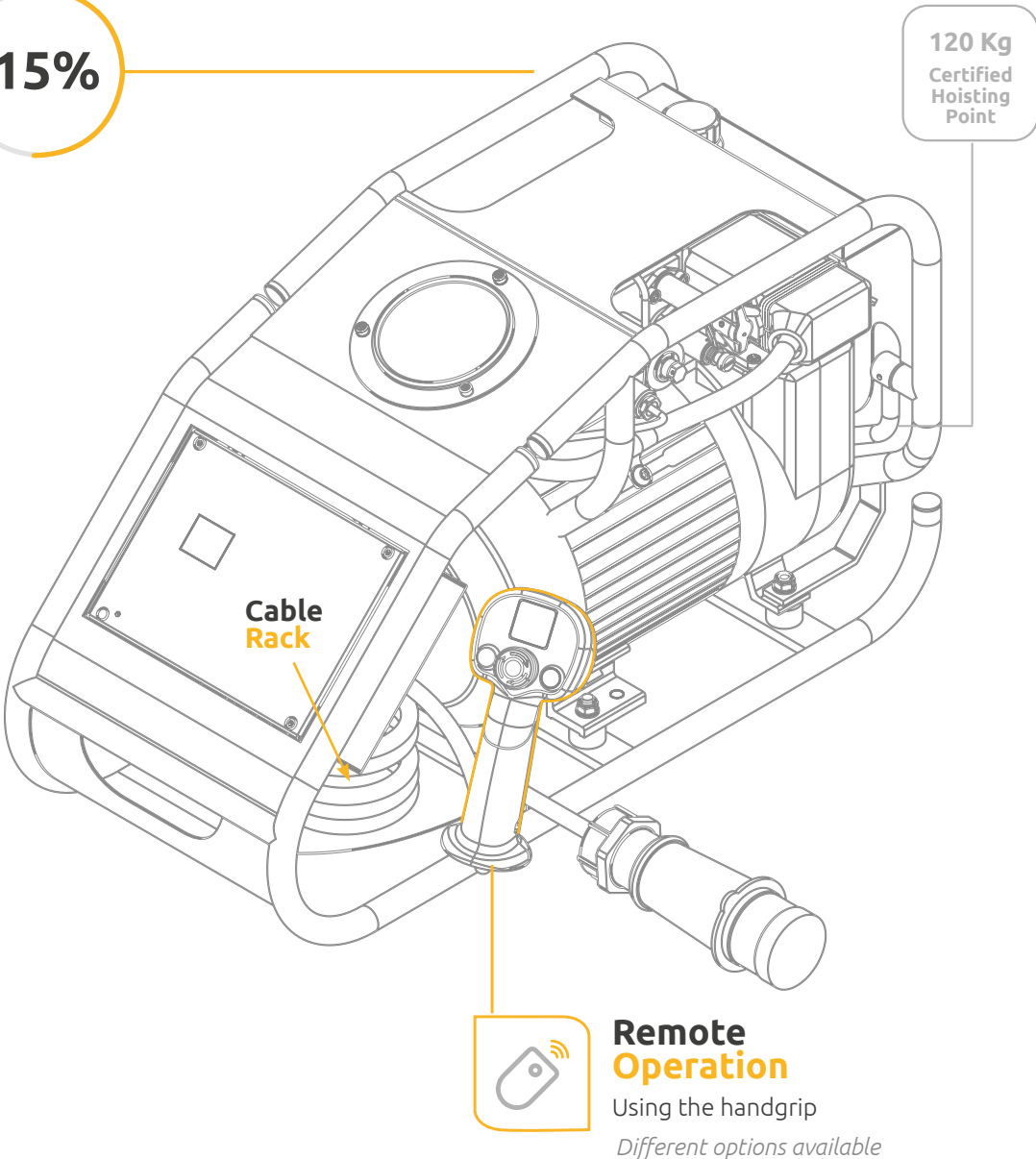
Increased Safety
Full Control

LIGHTER WEIGHT

-15%

Electrical & Magneto-thermic protection ⚡

-  Safe & Ergonomic
-  Texas Smart Technology
-  Alarm Messages
Low Oil Level
High temperature
-  Anti-corrosion & Anti-scratch Coating
-  Multi-configuration Customizable



Compact Pumps

TORQUE

/01

MK Series

It is capable of reaching pressures **up to 800 bar very quickly**

- Easy Repair
- Easy Use
- Handle
- Heavy Duty
- Lightweight
- UK CA Certified
- CE Certified
- RoHS Certified

Low height



MK21
Semiautomatic pump

MK31
Automatic pump



Customizable

- + Can be manufactured for different power supplies
- + Quick or threaded connectors
- + Different languages
- + Maintenance
- + Multi-Port & coaxial connectors



Customizable

- + Data logging
- + Tightening sequences
- + Specific procedures
- + Pressure percentages
- + Previously pre-set torque and angle procedures

NEW! Smart Edition MK31C BoltPilot®



SMART
Handgrip



- + Guided tightening
- + On-Screen Instructions
- + On screen results
- + Customization per menu

Native features

Handgrip REMOTE OPERATION



Standard



Display

Plug & Play

- + Compact & Resistant
- + Two stage pump. High Flow & High Pressure
- + Ergonomic Remote Control
- + Certified Hoisting Point
- + Electronic Control System
- + Easier and faster way to assemble/disassemble
- + Remote operation using the handgrip
- + Oil, voltage, current and temperature control



ST-CoD compatible



Smart Tightening Algorithm Control

Automatic



A-CoD compatible



BoltPilot®
Compatible

- + Automatic torque wrench recognition
- + Compatible with control devices



Advanced automatic Tightening Algorithm

- + Fully and semi-automatic modes
- + Semi-automatic mode
- + Angle and torque modes
- + Tightening modes
- + Check mode

Compact Pumps

TENSIONING

/02

MK41x

It is capable of reaching pressures **up to 2.500 bar very quickly**

Easy Repair

Easy Use

Handle

Heavy Duty

Lightweight

UK CA Certified

CE Certified

RoHS Certified

Smart Features

- + New electronic control board designed to on site work. Higher resistant to current peaks.
- + Easier and faster way to assemble/disassemble
- + Relief pressure time selected by the operator.
- + High flow/fast.
- + Electronic control system.
- + Firmware updates available.
- + New “no leak” oil cap available.
- + No extra cooler needed.
- + Certified hoisting point up to 120 kg.

No leaks and no wear
on a test of 30000 tightening cycles
(Under controlled laboratory conditions)

Handgrip REMOTE OPERATION

Standard

Display

Plug
& Play

DECREASED TIME ON MAINTENANCE

-40%



Customizable

- + Can be manufactured for different power supplies
- + Different connectors
- + Different languages
- + Maintenance
- + Pressure gauge





Optimized

Enhanced Features + Smart Tightening Algorithm Control

Automatic system to maintain or cut-off the pressure



SMART Handgrip

- + Guided tightening
- + On-Screen Help



Smart Display

- + N-CoD compatible
- + E-CoD compatible
- + Smart Wrench compatible

MK41xc Standard



BoltPilot® Inside

- + Standard
- + Automatic tightening control with BoltPilot®
- + Peripheral compatibility
- + Help through the handgrip
- + Guided procedures
- + Uploading and recording data
- + Connectivity

MK41rc BoltPilot®



- + Optimised for 2.000 bar operation
- + Optimised for Smart Tensioners

Compact Pumps

TORQUE&TENSIONING

/03



Duplo MK51

The unit combines the **speed** of the MK31 and the **proven reliability** of the MK41 tensioning pump, sharing 90% of the spare parts

- Easy Repair
- Easy Use
- Handle
- Heavy Duty
- Lightweight
- UK CA Certified
- CE Certified
- RoHS Certified

Main Features

- + Rear tensioning connector
- + Quick couplings
- + New control box designed for on site work
- + Higher resistant to current peaks.
- + Easier and faster way to assemble/disassemble
- + High flow / Fast
- + Firmware updates available
- + New “no leak” oil cap available
- + No extra oil cooler needed

No leaks and no wear
on a test of 30000 tightening cycles
(Under controlled laboratory conditions)

Handgrip REMOTE OPERATION



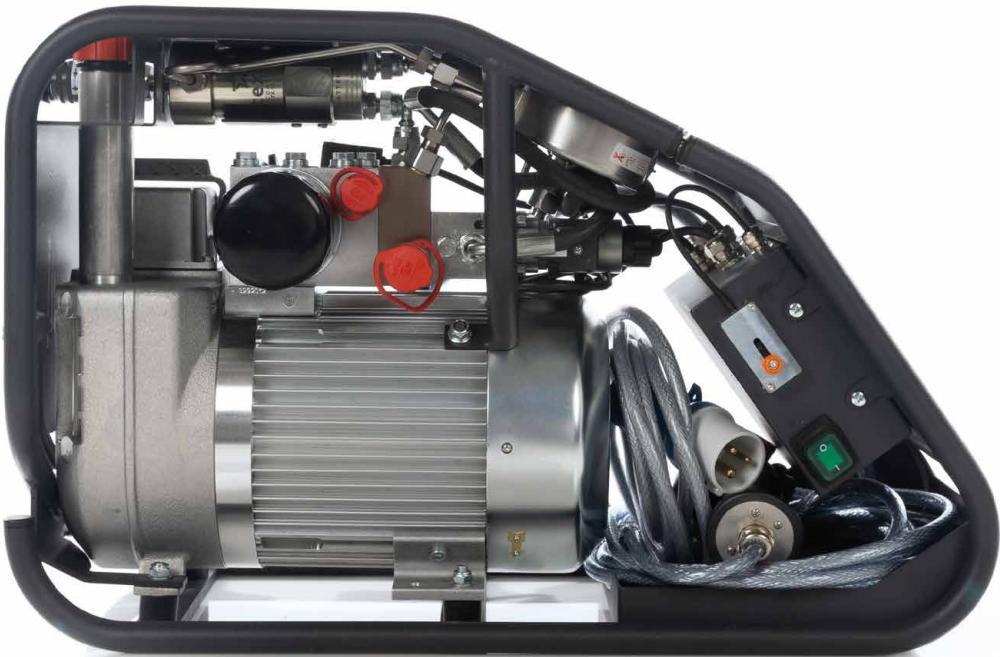
Plug & Play

+ ST-CoD compatible

Customizable

- + Can be manufactured for different power supplies
- + Quick or threaded connectors
- + Different languages
- + Maintenance

Duplo MK51 BoltPilot® Inside

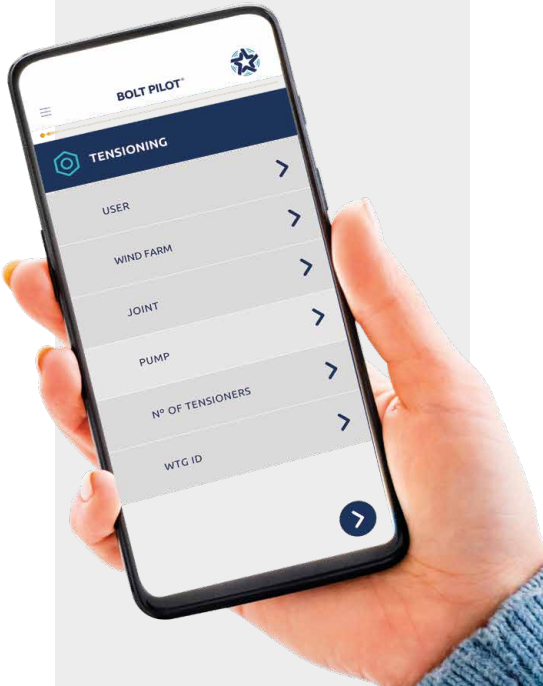


SMART Handgrip

- + Guided tightening
- + On-Screen Help



- + A-CoD compatible
- + N-CoD compatible
- + E-CoD compatible
- + Smart Wrench compatible



BoltPilot®
Inside

- + With the features of MK51 standard and the intelligence of the BoltPilot® technology

Factory Pumps

/04

- + Robust & heavy duty
- + Intensive use 24/7
- + Designed for factory work
- + Uper tray, ideal to place tools
- + PLC Control
- + Customizable firmware: Specific operation & maintenance programs
- + Emergency push button



TORQUE HYDRAULIC UNIT

MK35

TENSIONING HYDRAULIC UNITS

MK41x MAX TWIN




MK45



MK35 SERIES

Designed for very heavy torque work in manufacturing plants



Easy Repair



Easy Use



Ventilated



High Temperature



Alarm Messages



UK CA Certified



CE Certified



RoHS Certified

MK35-I

MK35-II



Remote Control
Two Pendants
to control Dual Pumps

It allows the use of several wrenches simultaneously
This unit allows a much faster tightening operation than standard units on the market.

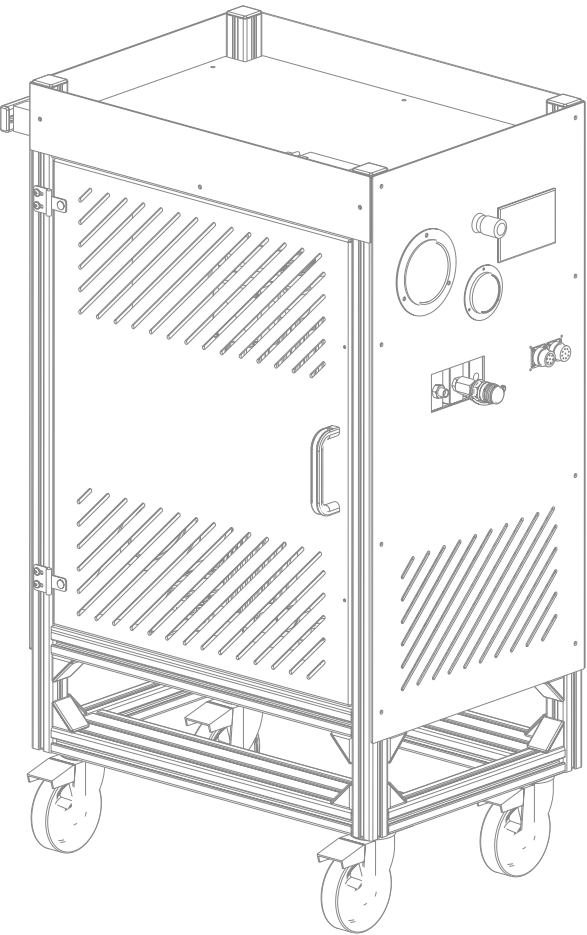
Key Attribute

- + Automatic or semiautomatic mode.
- + Max. pressure 800 bar.
- + PLC controlled: Allows the pump to be integrated into complex systems and precise automatic execution of algorithms.
- + HMI devices: Display on the front panel, to allow the user to configure the main parameters of the equipment.
- + Extra strong ventilation: Designed for high ambient temperatures.
- + Ultra high speed. High flow unit, accumulation pressure flow: 2.5 l/min at 800 bar on each motor.
- + Emergency stop push button.
- + Detachable remote control pendant.
- + Additional compressed air connector.
- + Top Tray: Protected with rubber. Ideal for storing tools.



Compatible
With Srink
Disc Tightening
System

SINGLE HYDRAULIC UNIT





DOUBLE HYDRAULIC UNIT





MK45 SERIES


Hydraulic Unit with Interactive Screen


Easy Repair


Easy Use


Ventilated

High Temperature

Alarm Messages

UK CA Certified

CE Certified

RoHS Certified

The automatic MK45 Powerpack was designed to operate at factory with a high number of hydraulic tensioners



Features

- + Different operational parameters can be set by the operator (pressure ramp, applied pressure time, etc). In addition, the Powerpack allows to maintain the pressure automatically between pre-programmed thresholds.
- + The MK45 includes a handgrip that allows remote control.
- + High Flow Unit. Build-up pressure flow: 10,7 l/min @187 bar/ 1 l/min @1350 bar
- + PLC Controlled
- + Manual mode & Automatic mode.
- + With handgrip for remote control. Automatic release pressure using handgrip.
- + Ramp mode programmable: The user can program different ramps during process.
- + Automatic system to maintain or cut-off the pressure.
- + Maintenance menu.
- + Safety system with enabling switches.

MK41x MAX TWIN

Specially designed for factory tensioning applications

Easy Repair

Easy Use

Ventilated

High Temperature

Alarm Messages

UK CA Certified

CE Certified

RoHS Certified

Automatic system to maintain or cut-off the pressure

Features

- + Special trolley design for manufacturing plants.
- + Ancillary tools storage area included.
- + Control by PLC with miniature LCD screen in control box.
- + Safety High pressure Quick-Couplings included.
- + Build-Up pressure cycle time less than 8 seconds.
- + Customizable Firmware: Specific maintenance programs such as oil changes and filters, optimization of cycle times.
- + Configurable Output (1,2,3 or 4 Pressure Outlets).
- + Safety system with enabling switches (1 per Operator).



Handgrip REMOTE OPERATION
Plug & Play



ST-CoD Compatible



Manual Pump
Ref. JDH200
Developed by
our technical engineers
according the customer's
need to rotate
the blades
in maintenance
projects

CUSTOM
DESIGNS

We Design &
Manufacture
according
the customer's
needs

Project development

- + Experienced engineers
with extensive field expertise
- + Customized innovative solutions
- + High precision designs
- + 3D simulations
- + From early stage of the joint
design to the final solutions

UNIQUE & UNRIVALED PRODUCTS

All of our products are proudly custom made in Spain.
Our experience is unrivaled and while our products
are often imitated, they're never duplicated.

Unbeatable value

+ INFO



PUMPS ACCESSORIES

Accessories



External Oil Tank



Manifold with 3 ports for tensioning



Muti-Port Manifold for torque

Hydraulic Connectors



Threaded Couples



Quick Couples



Quick Couples



T-coax Couples (torque pumps)

Different Cable Options

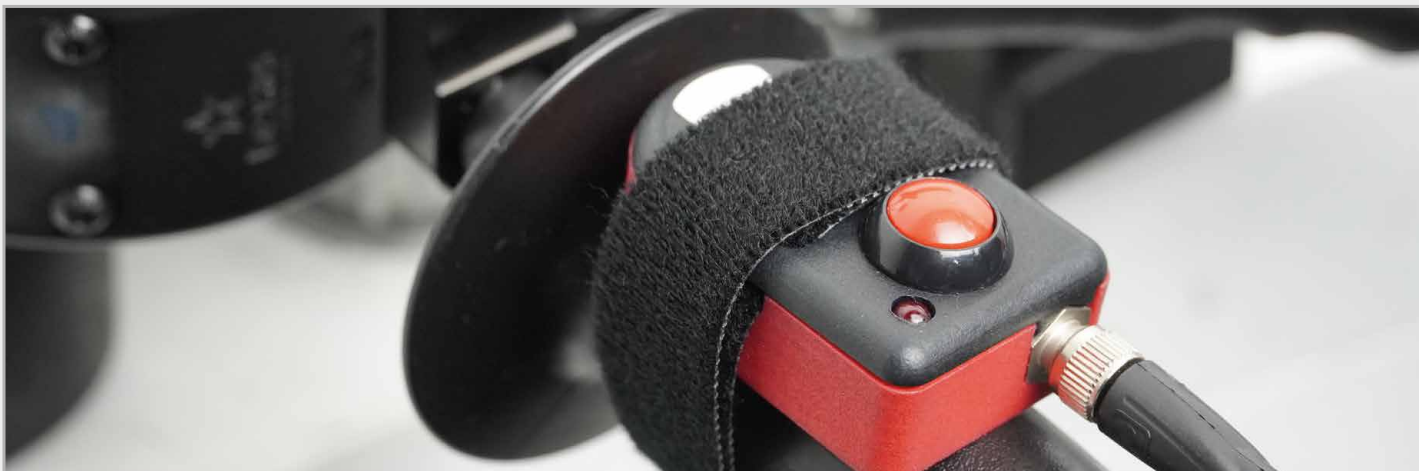


6,5 m



12,5 m

Compatible Equipments: Control Devices



ST-CoD Torque Pumps
PowerPump's Dead-Man Safety System



ST-CoD for Plant
PowerPump's Dead-Man Safety System



N-CoD
Smart GearBox (Nut Rotation Measurement System)



A-CoD
Angle Control Device for Torque&Angle Tightening



E-CoD
Elongation Control Device for WTG Foundation Bolts' Elongation Measurement



Ext. Elongation Sensor
External Elongation Sensor for Bolts' Elongation Measurement

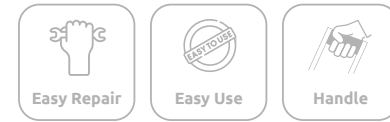


Smart Wrench

Rehobot Pumps

ELECTRIC PUMPS

Reliable, versatile and easy to use



Features

- + Well suited for applications where a stationary pump unit is required.
- + Two-stage operation with automatic switching between high and low pressure at 2 MPa - 6 MPa depending on the pump type.
- + The low-pressure unit is a gear pump that gives a high flow up to the switching pressure. The high-pressure unit is a single or double-piston pump.

HAND PUMPS

Two-Stage PHS hydraulic hand pumps



Features

- + Robust and well suited for harsh environments and rough handling as found in workshops and other mobile and industrial environments.
- + Equipped with a pressure gauge as standard. The gauge provides the user with precise control over the pressure being developed.
- + The two stage function makes the pump easier to operate.
- + Robust aluminium tank with low weight and simple oil filling.
- + Needle release valve ensures precise control over lowering operation.
- + Mounting holes for fixed installations and handle locking system for easy carrying.

Hydraulic Cylinders

Unique

Main Features

- + Suitable for harsh environments
- + Threaded or quick connect couplings available
- + Single acting push or hollow types
- + Spring return
- + Compact and standard versions
- + Steel or aluminium materials
- + Product cross reference application

A hydraulic standard cylinder or something unique?

REHOBOT cylinders are designed to withstand rough handling in harsh environments. Their use are highly varied. The cylinders can be used wherever there is something which needs to be pulled, pushed or lifted.





Smart Tools & Systems

- ✓ Smart Tensioners
- ✓ Trolleys
- ✓ Shrink Disc Tightening System

Smart Tensioners

NEW

BoltPilot® Inside

Angle Control

Connectivity

Handle

Nut Control

Elongation Control

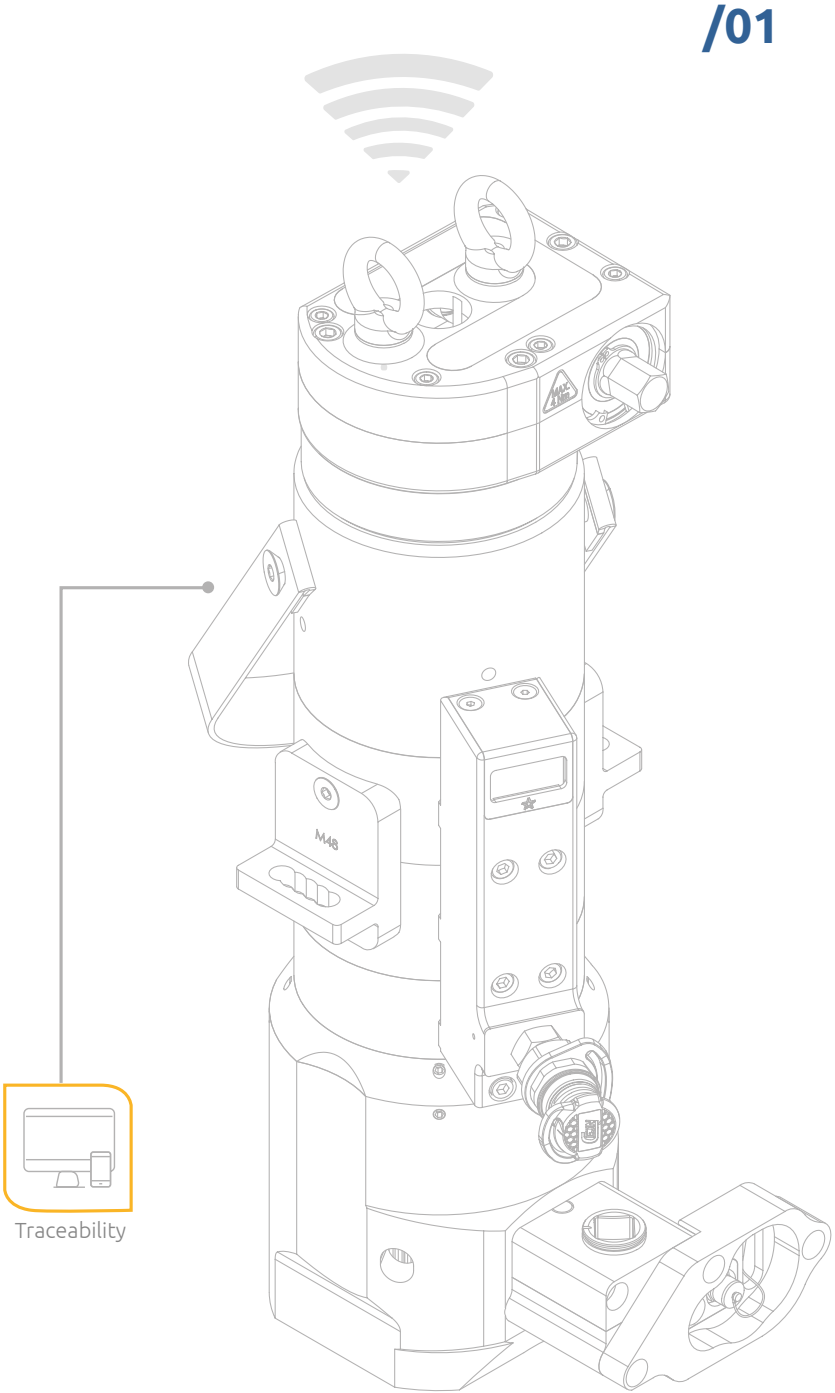
Load Control

UK CA Certified

CE Certified

Smart Features

- + Traceability
- + Data collection
- + Safe Job, Less Effort
- + Faster
- + Controlled bolting tools
- + Access remotely to the job info
- + Assure correct procedures



Multiple variables controlled
Nut rotation angle · Nut applied torque · Elongation



Ultra High
Strength Alloy Steel

/01

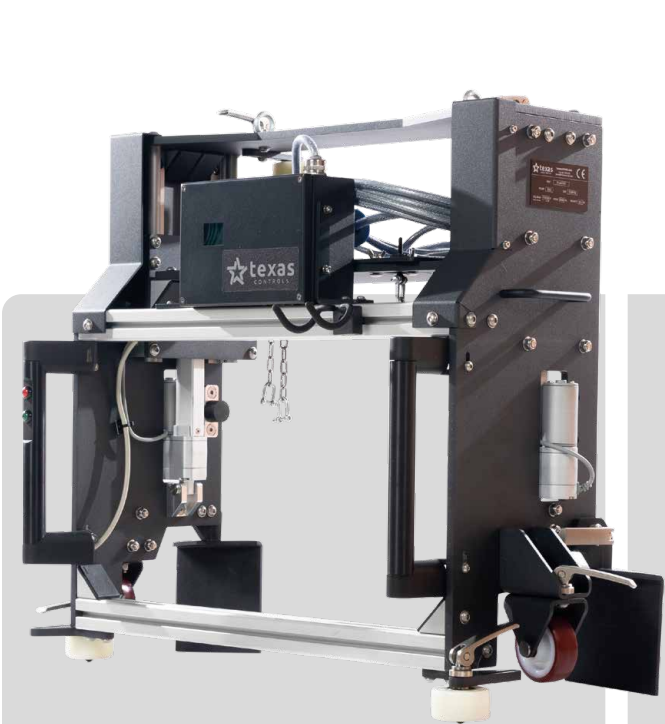
SMART TENSIONING SYSTEM



Component	Description
	Smart Pump
	Smart Wrench
	Data Processor Device
	Dock Station
	Hydraulic Hose and N-CoD Connection Cable
	Trolley
	Smart Tensioner

Trolleys

TORQUE SERIES · TENSIONING SERIES



TORQUE SERIES

Compatible with SL & RSL Series

** For any other wrench, please contact us*



Safety & Ergonomics



TENSIONING SERIES

Compatible with CG & CG HL Tensioners

** For any other tensioner, please contact us*

TORQUE TROLLEY

Automatic lifting system

Features

- + Lightweight, fast and ease to assemble.
- + Valid only for flanged connections of the wind turbine tower.
- + Assist the operator to raise/lower and move the hydraulic wrench over the flange.
- + Automatic engagement socket-nut mode (in combination with MK31/MK31c).
- + Control handle to raise or lower the torque wrench.
- + Adjustable anti-fall safety plate.
- + Torque powerpack handgrip support.
- + Adjustable guide wheels to fit different flange geometries.



Easy Repair



Easy Use



Lightweight



Handle



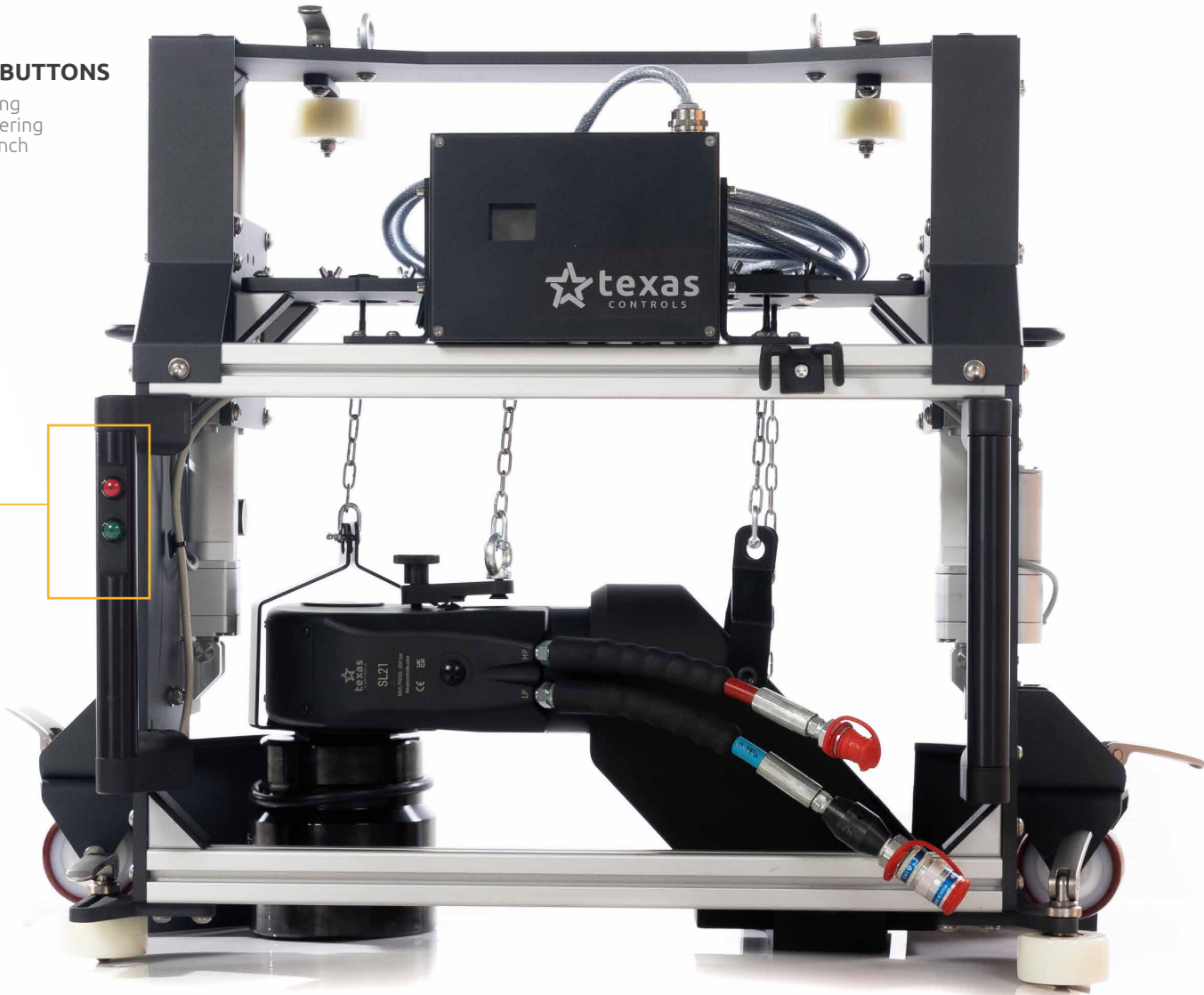
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CE Certified

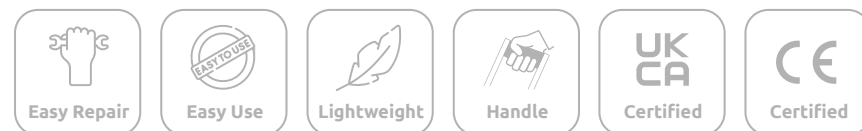
PUSH BUTTONS

For raising and lowering the wrench



TENSIONING SYSTEM

Automatic lifting system



Features

- + Lightweight, fast and ease to assembly.
- + Valid only for flanged connections of the wind turbine tower.
- + Assist the operator to raise/lower and move the hydraulic wrench over the flange.
- + Automatic engagement socket-nut mode (in combination with MK31/MK31c).
- + Control handle to raise or lower the torque wrench.
- + Adjustable anti-fall safety plate.
- + Torque powerpack handgrip support.
- + Adjustable guide wheels to fit different flange geometries.

+ TRAINING COURSES ARE AVAILABLE

+ OTHER DESIGNS ON REQUEST

Scan the QR Codes to watch the VIDEO



WATCH VIDEO

PUSH BUTTONS

For raising and lowering the tensioner



Adjustable

to suit different flange geometries



Safety Plates

Safety plates to prevent the trolley from accidentally falling down



Alarm Messages

Control box with alarm messages



Ergonomic Handles

For better management



Easy fitting

Easy fitting of the tensioner



Robust Actuators

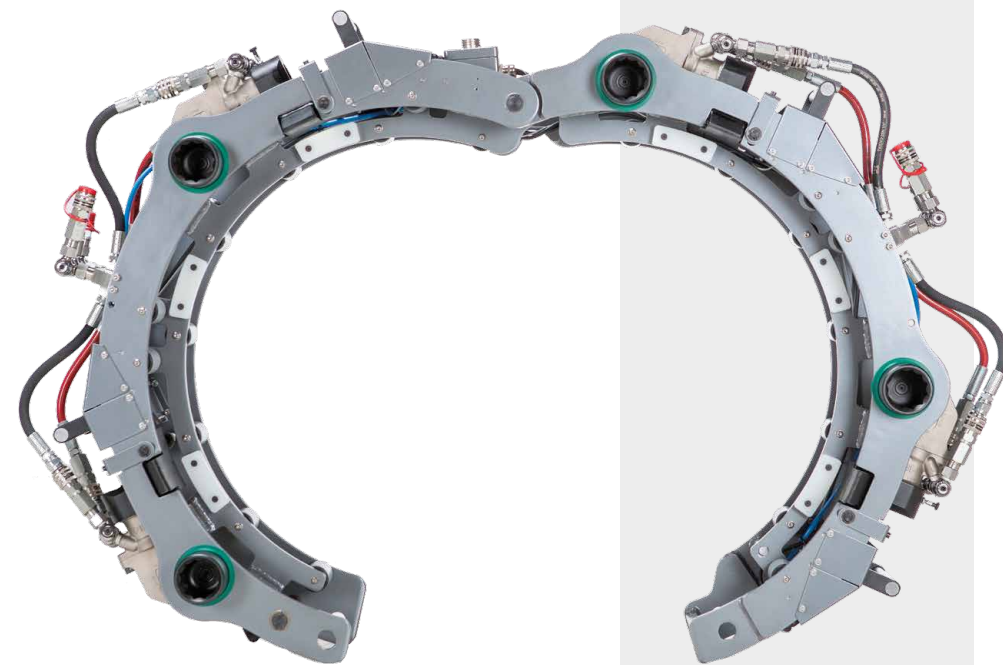
Extremely robustness

Shrink Disc Tightening system

Specially designed for high-performance nacelle plants

Features

- + Working with the MK35-I and MK35-II pump we get a High Flow PowerPack.
- + PLC controlled programed with SmarTorque algorithm and a Supporting Frame fully customizable for every Shrink Disc Application.
- + There are different versions for 2 a 4 torque wrenches, to be controlled only by a single or two operators.



/03



Automatic Tightening System

Custom design & Smart Hydraulics



Customizable



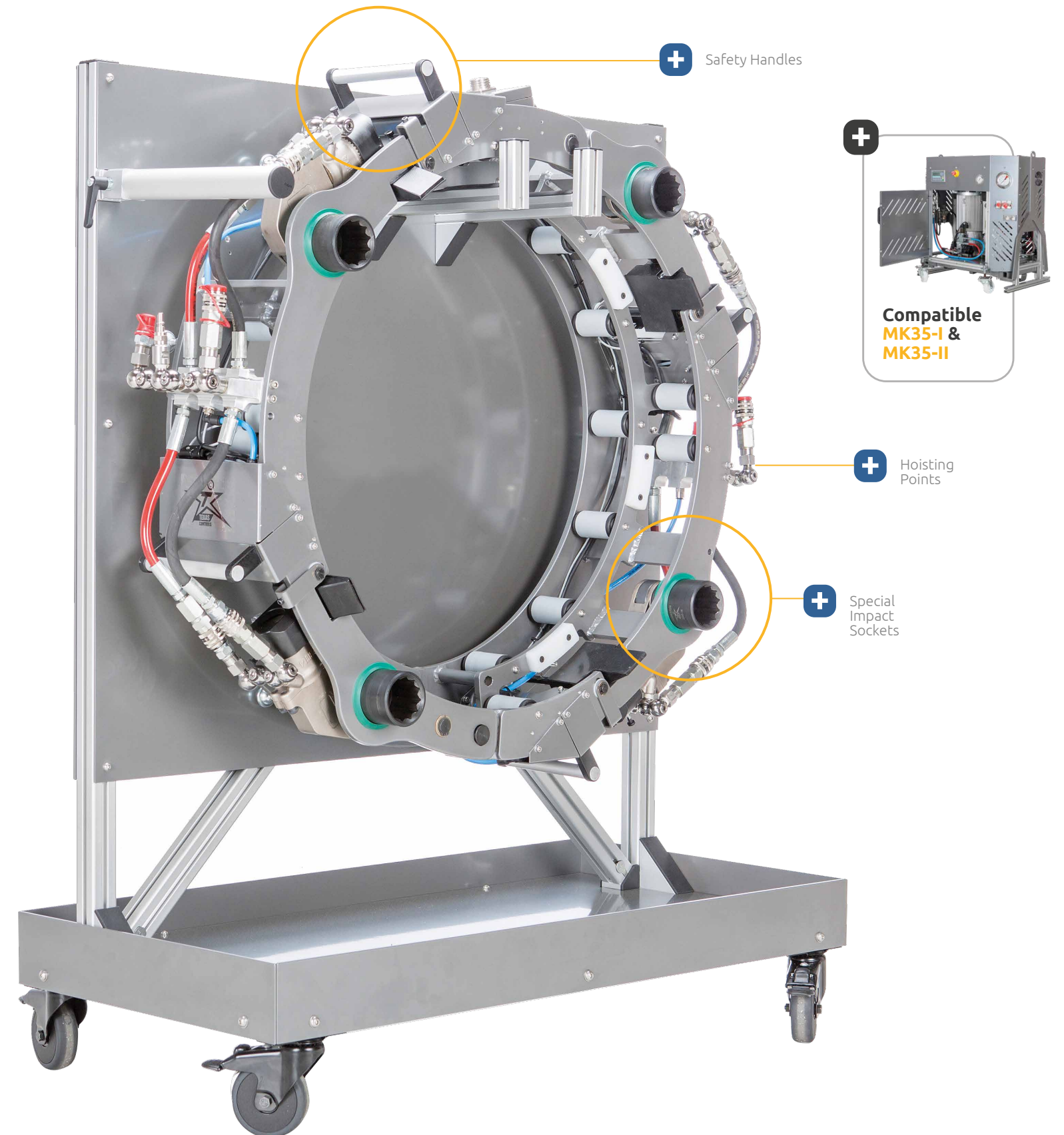
Display & Camera
OPTIONAL
UNDER REQUEST



Security & Ergonomy



>> Download here the Data Sheet



Measurement, Calibration & Verification

- ✓ Test & Calibration Systems
- ✓ BoltPilot® Load Calibrator
- ✓ Ultrasonic: BoltPilot Monitor®
- ✓ Control Devices
- ✓ Test Systems



/01

NEW

Test&Calibration Systems

STC 30 · STC 50



- BoltPilot® Inside
- Connectivity
- Pressure Control
- Torque Control
- UK CA Certified
- CE Certified

Main Features

- + Get pressure-torque data from your pump and wrench
- + Compatible with all the wrenches
- + 30.000-50.000Nm: Other under request
- + Robust construction
- + Designed to work in the field
- + Can be integrated into BoltPilot® system
- + Test the wrenches in work position

ERROR RATE SENSOR	Model	Max Torque
		Nm
<div>+/- 0,1%</div>	STC30	30.000 Nm
	STC50	50.000 Nm

BoltPilot Load Calibrator

Adaptable system for bolts from M36 to M72



Features

- + Compatible with BoltPilot®.
- + Records measurements & provides a report of these calibrations.
- + Different reaction modules are available to adapt the system to the different wrenches in the market
- + Adapters to replicate different clamp lengths and bolt / nut sizes are available.



Interactive Screen

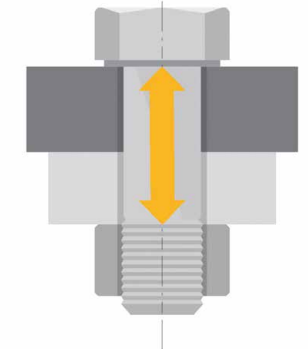


The display shows the relevant information of the process: current load value in the bolt (kN), applied torque (Nm) and pressure (bar) by/to the wrench respectively

/02

Bolt Load Control

Simulate the joint using the existing bolts and nuts to get the torque value needed to reach the target bolt load



Torque conversion

FOR ANY HYDRAULIC WRENCH
IN THE MARKET



BoltPilot® Monitor

Quick, Cost Effective
Latest Technology

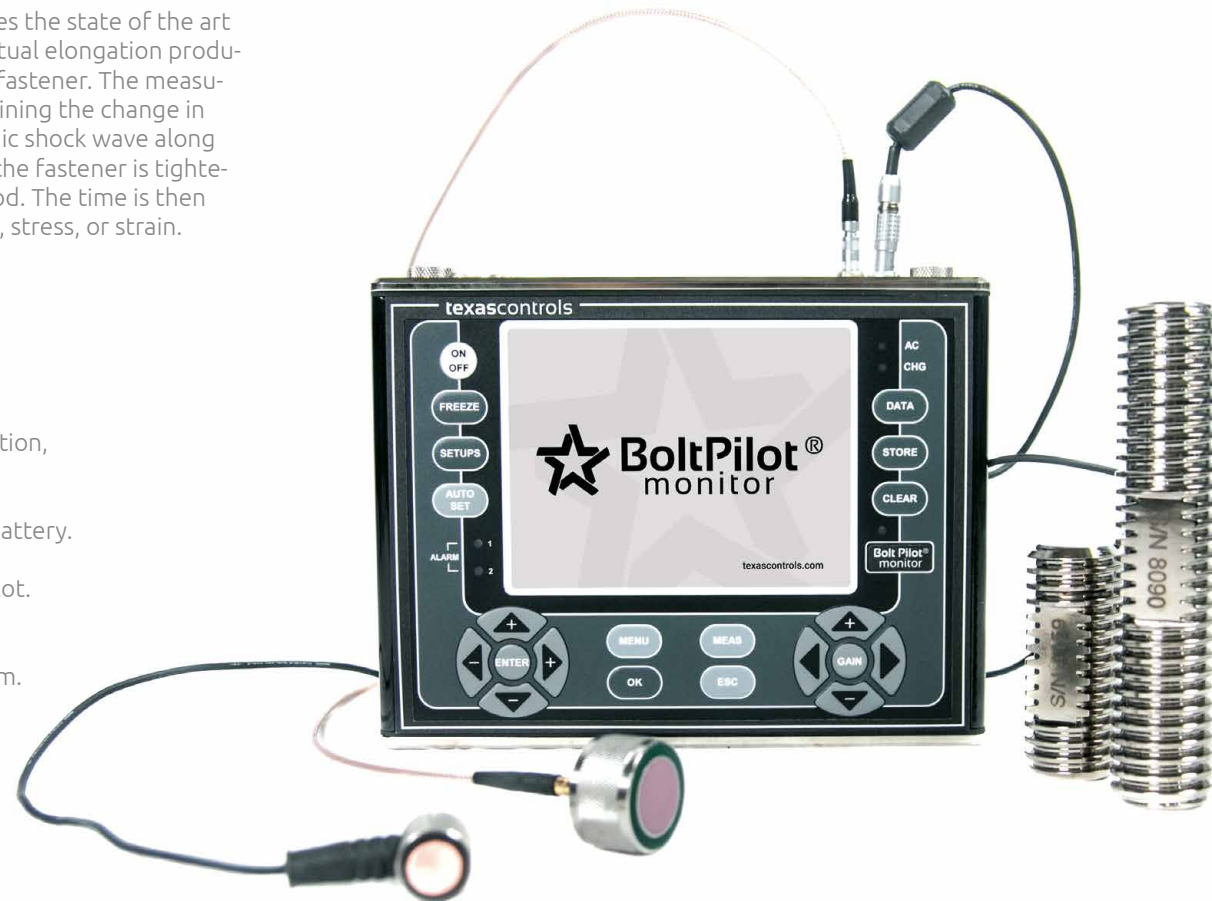


The BoltPilot® Monitor defines the state of the art in the measurement of the actual elongation produced by tightening a threaded fastener. The measurement is achieved by determining the change in the transit time of an ultrasonic shock wave along the length of the fastener as the fastener is tightened using a mechanical method. The time is then converted to elongation, load, stress, or strain.

Database Software

- + It measures fastener elongation, load and stress.
- + Data and signal recording.
- + USB Connection & Lithium battery.
- + Capacity 4 Gb internal & up to 64 Gb External SD slot.
- + It allows to download data in csv format.
- + Measurement range: 25,40 m.

Standard Kit



/03



Control Devices

Sensorized tools for complete process control

A-CoD



Angle Control

- + Full control of the nut rotation angle
- + Measures clockwise and counterclockwise
- + Accuracy $\pm 0.35^\circ$
- + Fully automatic operation
- + Wired & wireless versions
- + Compatible with BoltPilot®
- + Suitable for construction or service procedures
- + Improves control of the tensioning process

N-CoD



Nut Turning Control

- + Full control of the nut rotation angle
- + Measures clockwise and counterclockwise
- + Accuracy $\pm 0.35^\circ$
- + Fully automatic operation
- + Wired & wireless versions
- + Compatible with BoltPilot®
- + Suitable for construction or service procedures
- + Improves control of the tensioning process

E-CoD



Elongation Control

- + Measurement range 18 mm
- + Precision of 0.03 mm
- + Can be integrated into Texas Controls tensioners
- + Easy to use
- + Up to 4 E-CoD can be used simultaneously
- + Minimises human error
- + BoltPilot® compatible
- + Long battery life
- + Wireless

ST-CoD



Safety Trigger

- + Full control of the operation by the technician
- + Easy to integrate
- + Ergonomic & compact
- + Strong
- + LED indicator
- + Magnetic attachment
- + Velcro strap
- + It avoids accidental activation of the hydraulic wrench, validating the start



Test Systems

Tool Testing & Calibration Systems Customised to the customer's needs



TEST BENCHES



Tensioning



Torque



Mixed

CALIBRATION BENCHES



Tensioning



Torque



Torque & Load

Services

Cover your Complete Total Needs



RENTAL EQUIPMENT

- + Cover Your Complete Tool Needs.
- + 24/7 Availability.
- + Life Cycle Cost Control.
- + Complete Tool Outsource Program.
- + Pay Per Use Resource.

+ More info



FLEET MANAGEMENT SOFTWARE

- + In House Software Design.
- + Years of Experience in Tools Management applied to the Software.
- + Documentary, Quality and Cost Control.
- + MultiPlatform, MultiUser, MultiTask.



REPAIRS & MAINTENANCE

- + Torque and Tension Tools repairs.
- + Maintenance Service.
- + Custom Maintenance Programs.

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ON-SITE SERVICES

- + Inspection
- + Supervision



ULTRASONIC MEASUREMENT

- + Ultrasonic bolt load measurement service.
- + Equipment repair and calibration services.

CALIBRATION SERVICES

- + Calibration of Torque, Pressure, Load.
- + Traceability to ISO/IEC 17025 Standards.

The Academy®

Certified Bolting Qualification



Knowledge Areas

- + Technical Knowledge
- + Preventive Strategy
- + Data & Traceability
- + Practical Competence
- + Safety & Quality Awareness
- + Experience Assessment

DIFFERENT TRAINING LEVELS

- + 5 Standardized programs and certifications
- + Hands-on practical sessions
- + Examination and proof of experience
- + On-line and face to face courses
- + Virtual reality courses



+ ON-LINE

+ PRESENTIAL

+ VIRTUAL

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Scan the QR Code to access our Platform



Face to face



on-line





Certified Company

ASME PCC-1:2019
ISO 9001:2015
ISO 14001: 2015
ISO 45001:2018

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