

Products & Services



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PLARAD

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PLARAD

Type of bolting case

Many physical characteristics affect the bolting joint. Furthermore these physical characteristics also influence the final resulting bolting joint.



Our solutions

Only with precise processes and tools can safe bolting connections be achieved.



Torque-controlled tightening

- In the majority of cases where bolts are used, torque-controlled tightening is the method used to tighten.
- With this method the friction on the thread and head of the bolt act as a precise pre-tensioning force, therefore the use of accurate tools is imperative.
- Effectively the bolt can be tightened quicker.
- This method is more practical and easy.
- Light, compact tools can be used where space is limited.





Hydraulic pre-tensioning

- As the nut is not rotated under load, there is no torsional load on the bolt.
- After achieving the desired pre-tension, the nut can be tightened without causing stresses on it. The correct bolt pre-tensioning load is achieved.
- Even different co-efficient (levels) of friction have no effect on the tensioning process.



Via the hydraulic cylinder tensioning force is exerted on the bolt causing it to elongate.



Torque/torque-angle-controlled tightening

- Torque/torque-angle-controlled tightening is more precise than purely torque-controlled tightening.
- The defined amount of rotation of the bolt (torque angle) provides automatically and accurately the required pretension.
- Control is achieved directly from the power pack, by means of microprocessor technology within the pump.
- Higher quality bolting joints are achieved.
- Results can be stored and used at a later date for documentation required in quality assurance processes.
- The whole control process is achieved without the need of external sensors, hence no need for extra cables from the tool.



PLARAD

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NEW!

DE1 – electric

The new generation

- New gearbox slimmer, shorter and lighter
- New control system allows you to complete bolting processes with even greater precision and reliability
- New display offers the user outstanding ease of use and a comprehensive range of indication values

Multi functiondisplay

99

Electrical motor (pistol grip) freely rotates on the gearbox aiding ease of operation

Quiet operation, impact and vibration free

Optimised gearbox

Туре		Performance range (Nm)		
DE1-10	up to	1.000		
DE1-20	up to	2.000		
DE1-30	up to	3.000		
DE1-36	up to	3.600		



Ergonomically designed for easy handling and operation

DE – electric



Torque ranges up to 12,000 Nm

- For continuous use in assembly, maintenance and production.
- Plarad DEM with a manual 2-speed gearbox and the Plarad DEA with an automatic two-speed gearbox.
- The low-vibration technology protects the operator's muscles and joints, effectively preventing the development of HAVS (Hand-Arm Vibration Syndrome).
- The extremely light weight and sophisticated ergonomic profile ensure ease of use.

DE Accessories



Various extensions are available for deep fastenings and tight spaces.

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The offset gear makes it possible to move the wrench down long threads for nut sizes up to AF 150 mm.

DE with angle drive: easy to use even in otherwise inaccessible places thanks to its low height. The electric motor and handle freely rotate on the gearbox.





DA1 – Battery Nutrunner



DA1-05	100 - 550
DA1-10	160 - 1,000
DA1-13	160 - 1,300
DA1-30	170 - 3,000
DA1-47	500 - 4,700





Predetermined torques can be set via changing the gear and setting the power setting step



- The range topping (most powerful) model DA1-47 can achieve up to 4,700 Nm
- 60 different torque settings
- Four different extrapowerful loosening settings
- Linear torque characteristics
- Two step active charge indicator
- On/Off operation trigger with delayed action 0/1 binary logic
- Automatic release of forces on reaction arm once controlled tightening is achieved, no jamming



Includes two 4,0 Ah lithium ion battery packs

High speed combined with enormous safety

As soon as the desired set torque value is acquired the unit automatically stops, it is also immediately ready for the next bolt tightening etc.

The continually active 2 step LED display of the battery charge prevents inaccurate torque tightening's when the capacity of the battery is too low.

The operation trigger is not variable but binary – thus preventing an inaccurate torque being applied, especially useful during extended operation or when wearing gloves.



Fast Charger





DP – pneumatic



DP Accessories

DP with angle drive: easy to use even in otherwise inaccessible places thanks to its low height. The pneumatic motor and handle freely rotate on the gearbox.



Handle and pneumatic motor freely rotate on the gearbox (greater than 360°)



The offset gear makes it possible to move the wrench down long threads for nut sizes of up to AF 150 mm.





Fine adjustment is achieved via a pressure regulation unit



Туре	Performance range (Nm)	
DPA/DPM 08	up to 825	
DPA/DPM 12	up to 1,220	
DPA/DPM 17	up to 1,750	
DPA/DPM 28	up to 2,850	
DPA/DPM 47	up to 4,700	
DPA/DPM 65	up to 6,500	
DPA/DPM 80	up to 8,000	

Up to 12,000 Nm available on request.





MSX, MX-EC – powerful and variable!



Continuous rotation in every stroke position! No jamming!

- Long-lasting Plarad quality.
- Fast operation thanks to optimum harmonisation with Plarad power packs.
- Safety relief valve.
- SQS-high-pressure safety cylinder in case of housing fraction no leakage.
- Easy servicing.
- Compact dimensions.
- Fine-toothed ratchet system offers high torque precision and prevents jamming.
- Also available in an ATEX version (II 2 G ck II B T4) for Zone 1G.
- Internationally patented technology.

Precision and safety for each bolting case



The fast-locking device allows quick and simple reversing of the tool and socket



Available with adjustable handle



360° rotatable hose connection, with swivel option

Тур	Square socket adapters	Torque range (Nm)
MX-EC 10 TS	3/4"	100 - 1.000
MX-EC 20 TS	1" and ³ /4"	210 - 2.100
MX-EC 45 TS	1"	450 - 4.500
MX-EC 75 TS	1 1/2"	750 - 7.500
MX-EC 95 TS	1 ¹ /2"	950 - 9.500
MX-EC 120 TS	1 ¹ /2"	1.200 - 12.000
MX-EC 155 TS	1 ¹ /2"	1.550 - 15.500
MX-EC 200 TS	2 ¹ /2"	2.000 - 20.000
MSX 250 TS	2 ¹ /2"	2.500 - 25.000
MSX 400 TS	21/2"	4.000 - 40.000
MSX 650 TS	31/2"	6.500 - 65.000



Also available in a singlehose version – for even easier handling and positioning





The reaction arm can be rotated quickly and easily through 360°. The safety latch reliably prevents inadvertent unlocking and potential fall to the ground.

Lever piston system – in the case of sudden loosening, the piston separates from the lever and reconnects automatically. No part is therefore in danger of being broken. Extremely slim, lightweight and highstrength aluminium v housing.

Pressure safety valve.

Safety ratchet – prevents unintended unlocking of the reaction arm.

Integrated release shock absorber protects the housing from sudden loosening impact damage.

Long-lasting fine-toothed ratchet system. Full stroke movement is not always essential.

The connection between lever and ratchet guarantees optimum transfer of the torque generated. SQS safety cylinder made of highstrength material allows high pressures in a lightweight housing.

PLARAD

A comprehensive range of accessories allows for a large number of different applications

Standard square-drive sockets are available in all dimensions and for all across flats sizes.

Double hexagonal socket PLARAD

Long socket

Reduction of height and weight through the use of one-piece splined safety sockets.



Splined safety hex inserts in a variety of sizes.





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PLARAD



FSX – slim and precise!



Continuous rotation in every stroke position! No jamming!

- Long-lasting Plarad quality.
- Fast operation thanks to optimum harmonisation with Plarad power packs.
- Safety relief valve.
- SQS-high-pressure safety cylinder in case of housing fraction no leakage.
- Easy servicing.
- Compact dimensions.
- Fine-toothed ratchet system offers high torque precision and prevents jamming.
- Also available in an ATEX version (II 2 G ck II B T4) for Zone 1G.
- ANSI/API-compatible version available.
- Internationally patented technology.

For tight spaces and inaccessible surroundings



Available with adjustable handle



360° rotatable hose connection, with swivel option



Also available in an ANSI version for the oil & gas industry

FSX combination	Ratchet heads (AF)	Torque range (Nm)
SX-EC 1 / HSX	27 - 41	100 - 1,000
SX-EC 2 / HSX	20 - 70	250 - 2,500
SX-EC 5 / HSX	27 - 85	500 - 5,500
SX-EC 8 / HSX	46 - 80	800 - 8,500
SX-EC 12 / HSX	50 - 120	1,200 - 12,000
SX-EC 20 / HSX	55 - 145	2,000 - 20,000
SX 30 TST / HSX	95 - 145	3,000 - 30,000
SX 45 TST / HSX	120 - 185	4,500 - 45,000



HSX ratchet head



Lever piston system – in the case of sudden loosening, the piston separates from the lever and reconnects automatically. No part is therefore in danger of being broken.

Integrated release shock absorber protects the housing from sudden loosening ______ impact damage. Extremely slim profile, lightweight high-strength aluminium housing.

Pressure safety valve.

SQS safety cylinder made of high-strength material allows high pressures in a lightweight housing



Also available in single hose version for even easier handling

Long-lasting fine-toothed ratchet system. Full stroke movement is not essential.

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The connection between lever and ratchet guarantees optimum transfer of the torque generated.

PLARAD

A comprehensive range of accessories enables many different applications

Interchangeable sockets in different sizes can be quickly changed.



In exceptional cases, bespoke reaction arms can be designed to match your particular application, ensuring safe and optimum use of the reaction arm against a surface.





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Electric Power Packs

High-Tech

- Fully automatic
- Documentation
- Torque/torque-angle method
- Dual Power Pack

Basic

Compact, small, light-weight and economical

Fast

 More bolts can be tightened in the same amount of time: Plarad products are up to 3 times faster than other products.

Other Power Packs > 30 secs 10 secs

Reliable

 Accurate, safe results as the application is controlled and monitored completely automatically by an internal microprocessor.



Safe

 The Plarad documentation system makes it possible to record and illustrate the results of every bolting joint. For this reason the documentation is very useful in the field of product liability.





Fast operation

Lightweight

 Optimal power to weight ratio. The oil-filled electrical motor technology guarantees optimum weight and maximum output.



Can be operated almost continuously

The power packs do not overheat thanks to their special oil-filled motor design. The oil tank is part of the motor itself and no other tank is necessary. The motor, the pump unit and the oil are all cooled at the same time.



It runs and runs and runs!

 Innovative, patented technologies and design features, plus the use of high-quality materials ensure the pump has an extremely long lifespan.



For example, the equipment has been used in wind power construction/ service for more than 9 years.



B Power Packs – setting high standards



XB 1

 The lightweight design of the XB 1 makes this powerhouse of a power pack ideal for mobile service applications.

XB 2

 The all-rounder in the XB range is the XB 2, famous for its high speed.

XB 3,5

 As the quickest power pack the XB 3.5 is a powerful package particularly suitable for complex bolting jobs.





Power Pack	Flow rate	Weight *
XB 1	0.8 l/min	20 kg
XB 2	1.2 l/min	29 kg
XB 3,5	3.5 l/min	33 kg
XB 1-Z	5.4 / 0.8 l/min	24 kg
XB 2-Z	8.0 / 1.2 l/min	31 kg
XB 3,5-Z	13.2 / 3.0 l/min	35 kg
XB-VAX 2	1.2 l/min	32 kg
XB-VAX 2-Z X32	8.0 / 1.2 l/min	32 kg
XB-VAX 3,5	3.5 l/min	35 kg

Extract from technical data (values apply to 230 V/50 Hz or 400 V/50 Hz versions. (Other voltages are available), e.g. 110 V.

* ready for use



XB 1

for mobile service work

XB 2

for universal use

XB 3,5

for use in manufacturing plants





Power Packs – high-tech models



Our rugged and durable power packs are characterised by the constant volume they output right up to their pressure limits, and have proved themselves through their long life in the toughest applications. The oil-filled motors prevents overheating. The design also ensures optimum performance to weight ratio.

IQ-VAX

- Fully automatic for accurate, reliable bolting joints.
- Documentation
- Instrumentation and control systems
- Torque-angle method

Each individual Bolting case

(tightening – loosening) is controlled via the pumps microprocessor control unit

utilising different processes

PLARAD

Flow rate	Weight *
3.5 l/min	35 kg
5.3 / 0.75 l/min	26 kg
8.0 / 1.2 l/min	32 kg
13.2 / 3.0 l/min	36 kg
	3.5 l/min 5.3 / 0.75 l/min 8.0 / 1.2 l/min

Extracts of the specifications.

* ready for use

Fully automatic VAX technology keeps users perfectly safe

Rugged cage which protects the unit, even on building sites

> Pressure indication displayed, assessment of the bolting case via a status indicators

Low noise whilst operating


VAX – Genuine full automation function

- Straight to work at the touch of a button: the VAX Automatic controls and finishes the bolting joint automatically and accurately, even when handling multiple bolts, as well as indicating progress to the operator via the remote-control.
- Pressure is taken off the operator, hence errors are eliminated.

Documentation

- The Plarad "Documentation" add-on saves all torque or torque angles conducted into the control unit.
- Once uploaded to a computer, the bolting data can be used for traceability purposes on each bolt joint.



Multiple bolting technology's

The Torque-Angle function, for example, means that differing friction coefficients of bolts no longer play a role. The required tightening torque will always be achieved.

Synchronised operation

- Synchronised operation using two or more units (MX-EC or FSX).
- The Automatic function ensures that synchronised bolting joints are handled quickly and reliably, ensuring an optimal seal.

Optional accessories



Examples include digital remote control, pressure and status indication



There is an extensive range of accessories, e.g. auxiliary oil tanks, to extend the unit's range of applications



iQ-Dual Power

The IQ Dual Power Pack can power both hydraulic torque tools and hydraulic tensioners.



 Power Pack
 Flow rate
 Weight *

 IQ-VAX 2-Z-D 1500-X32
 8.0 / 1.2 l/min (at 800 bar) 8.0 / 0.4 l/min (at 1500 bar)
 40 kg

 IQ-VAX 3,5-Z-D 1500-X32
 13.2 / 3.0 l/min (at 800 bar) 13.2 / 1.0 l/min (at 1500 bar)
 42 kg

Extracts of the specifications.

* ready for use

800 bars

1500 bars (optional up to 2100 bars)



Tensioner

2-i

As well as a variety of bolting techniques and lifting processes in 800-bar mode, the Dual Power VAX unit can also be used for tensioning applications up to 1500 bars (optional up to 2100 bars). This universal hydraulic Power Pack saves you having to invest in additional high-pressure units.

- 2-in-1, one less unit to buy.
- **Fully automatic pumping of hydraulic tensioners.**
- Automatic limit-stop.
- Pumping performance accross the range.
- User-friendly a remote control with identical functions. Users can easily familiarise themselves with the operation of the units easily.
- All of the upgrade's and enhancement's on conventional IQ Power Packs are also available for the Dual Power.

Controlled tensioning force in tensioner mode

When initially tensioning, there is a risk that oil pressure decreases due to the settling of the object during the actual stretching process or due to stretching of the attached hydraulic hoses. Plarad IQ Power Packs Tensioner mode monitors the pressure and pump as required, ensuring that the required tension is achieved.



Hydraulic power pack without tensioner mode

Hydraulic power pack with tensioner mode



TAX – the pump for tensioners



Power Pack	Flow rate	Weight *
TAX 1-1500-X32	0.4 l/min (1500 bar)	31 kg
TAX 3,5-1500-X32	1.0 l/min (1500 bar)	40 kg





Extracts of the specifications. * ready for use

- Dedicated pump specially for tensioning applications up to 1500 bar (optional to 2100 bar)
- Pressure indication in the display screen
- Compactly built with special principles being utilised to build up the pressure

Frictionless installation and disassembly from bolts/studs without exerting any torsional load on the bolt/stud

Absolute Rechtwinkligter auftan Schraubachse zur Absolution Vorausgesetzt werden i

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Soner • Spar

Pre-tensioning force can be precisely set

Individually adaptable to perfectly fit your specific joint/flange

- Available in single-stage and multi-stage configurations
- 1,500 bar maximum operating pressure
- Available in a variety of sizes



Single stage design for situations whereby the area around the axis is cramped

Hydraulic Tensioners



Safety indicator – green (optional)

Safe controlled operation: Verification of sufficient engagement of the bolt/stud.

Automatic piston return

Swift operation: The puller is automatically returned to its original position once the pressure has been released.

Maximum stroke indicator

Optical safety: Visual indication of maximum stroke (max distance piston can move out of the tensioner body).

Cycle counter

The cycle counter indicates number of cycles performed and will consequently indicate the maximum cycle service point, thus avoiding damage and failures via preventive maintenance.

Stainless steel handle

Safety: Protection of the hose couplings against damage. Optimal grip and dexterity provided by the detachable handle of the tensioner.

Stroke limiter – mechanical

Ultimate safety: The mechanical end stop prevents the over extension of the piston (even under maximum load).

Rotating socket – spring-loaded

Prevention of installation damage during the positioning of the tensioner: The spring affords the rotating socket axial flexibility.

Supporting surface – optimized

Outstanding versatility in any environment: The tensioner is especially well suited for use in tight spaces thanks to its optimal shape.

configuration.

Free Rotating Bridge Exceptional handling: Straightforward alignment, independent of the bolt

Gearbox

Unique ease of use: The nut can be turned swiftly and with perfect ease using a ratchetor a torque wrench that is driven by a gear drive (maximum input torque: < M36=40 Nm, > M36=80 Nm).



Hydraulic Pump extremely light



Plarad's manual hydraulic Power Packs are characterised by their high performance and low weight. The use of very rigid light metal saves more than 50% in weight compared to conventional steel pumps. 35 % less power required to achieve mechanical leverage, extremely low weight, and considerably higher pumping performance than conventional products, means that PH Power Packs are a welcome tool for everyday use in the workplace. Plarad PH Power Packs are also available in a variety of sizes.

- For occasional use
- Ideal for tensioners
- Extremely light
- High throughput
- More than 50% lighter than conventional steel pumps
- High throughput thanks to clever design
- Low setting down to 385 N
- Pressure limiting valve adjustable from the outside
- Carrying handle and stabilising feet
- Available with two sizes of tank, 2 I and 4 I
- Available in 800-bar and 1600-bar models



K – universal

 Universal torque tool for extremely cramped spaces

	0/1
Performance	

туре	sizes (mm)	range (Nm)
K 30 TF	24 - 95	300 - 3,000
K 60 TF	24 - 95	660 - 6,600
K 150 TF	27 - 110	1,100 - 11,000
K 200 TF	60 - 135	2,000 - 20,000
K 300 TF	80 - 150	3,000 - 30,000

Ratchet heads (up to 105 mm) with exchangeable inserts

Socket fittings up to 150 mm, also available open and open-able versions





HPR – 150,000 Nm!

- For doing up and undoing large, heavy bolting joints.
- Optimised for use in confined spaces where conventional hydraulic wrenches do not fit.
- The space required by a ring spanner is enough room for the HPR to operate.

Various ring spanner attachments, and the ratchet heads, can be changed quickly and easily.

PLARAD

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CTK 3.5 E	FS	

CTK 3.5 EFS Hydraulic Power Pack

Power unit	Performance range	Max. size, metric (SW)	Max. size, imperial (AF)	Weight
RE 500	5,000 to 50,000 Nm	185 mm	7 ¹ /4"	34 kg
RE 1000	10,000 to 100,000 Nm	230 mm	9 ¹ /8"	45 kg
RE 1500	15,000 to 150,000 Nm	320 mm	12"	76 kg





Pneumatic Power Packs



Just like our electrically powered hydraulic units, our pneumatic hydraulic power packs are characterised by their ruggedness, long life and their constant throughput right up to their pressure limits. The pneumatic motor is integrated into the oil tank, preventing seizure while simultaneously cooling the hydraulic fluid.

IQ VAX pneumatic

The first pneumatic VAX unit: The new, fully automatic pneumatic power pack uses the latest microprocessor technology. This eliminates user errors since operators simply start a fully automatic, controlled procedure at the push of a button. The machinery shuts off automatically when the required torque is achieved and informs the operator via the remote control.





IQ-VAX 2 P-Z

Only from Plarad!

iQ

For the full functionality of IQ technology

Power Pack	Flow rate	Weight *
Х 1-Р	0.8 l/min	24 kg
Х 2-Р	1.6 l/min	31 kg
X 2-P-Z	7.0 / 1.6 l/min	31 kg
X 2-P-Z ATEX	7.0 / 1.6 l/min	32 kg
IQ-VAX 2-P-Z	7.0 / 1.6 l/min	35 kg

Extracts of the specifications.

* ready for use

Only from Plarad!



Pneumatic Hydraulic pump which is ATEX compliant

X 2 P-Z ATEX: Approved for operation in Zone 2G Certified for use in areas containing materials with a minimum flame point of 0,082 mJ



Also available in an ATEX version!

PLARAD

ATEX 55

ATEX products

Terminology conforms to EU machine guidelines 98/37/EU and 94/9 EU



X 2 P-Z Pneumatic Power Pack

II 2G ck IIB T4 -10°C≤Ta≤+50°C



FSX Hydraulic Torque Wrench

II 2G ck IIB T4 -10°C≤Ta≤+50°C



MX-EC Hydraulic Torque Wrench

II 2G ck IIB T4 -10°C≤Ta≤+50°C



DP Nutrunner (pneumatic) for oil and gas industries

II 2GD c IIB T5 -10°C≤Ta≤+50°C



DP Nutrunner (pneumatic) for mining

l M2 c -10°C≤Ta≤+50°C



Checking bolting joints

The microprocessor controlled GMV 2 unit is our key test instrument. Used in conjunction with a transducer, it enables precision measurement of torque while bolts are being done up. The values can be saved, along with the date and time, and can then be printed out by the instrument itself or uploaded to a PC for further evaluation.







Bolting joints can be evaluated on a PC



 KBW sensor for nutrunner – Measuring range: up to 6,000 Nm (higher power ranges available on request)



 Test adapter for hydraulic torque wrenches – Measuring range: up to 25,000 Nm (higher power ranges available on request)

Equipment testing



The PH test system, used with the GMV 2, is the ideal combination for testing and setting up hydraulic tools.

PH test system – Measuring range: up to 20,000 Nm (higher power ranges available on request) Combining the DRT reaction torque sensor with the GMV 2 enables static testing of impact tools, electric torque tools and other equipment of various designs.

DRT reaction torque sensor – Measuring range: up to 6,000 Nm (higher power ranges available on request)



Our test fittings are checked and accredited by the calibration service at Germany's Federal Physical and Technical Institute





XVR/XVK – usable anywhere!

Manually operated torque multiplier
Ideal for use with no external power supply
Available for use anywhere and at any time

Torque multiplier	Hight (mm)	ø (mm)	Performance range (Nm)	Weight (kg)
XVK 15	172	81	220 - 1,700	2.6
XVR 25	302	81	440 - 2,300	5.2
XVR 35	273	81	510 - 3,600	5.0
XVR 40	238	95	560 - 4,000	6.1
XVR 65	244	114	820 - 6,200	8.4
XVR 70	302	128	980 - 6,800	11.4
XVR 90	300	172	1,780 - 8,600	21.8
XVR D 45	310	128	1,000 - 10,100	16.0

All weights are without reaction arm/subject to amendment.

Compatible torque wrenches

> PH 36 Z (60 - 360 Nm), PH 50 Z (200 - 500 Nm)

XVK Single-stage torque multiplier

XVR

ARAD

VRE

Flexibility thanks to heightadjustable reaction arm Multi-stage torque multiplier with reversing safety mechanism ensures extra safety for users

Special solutions



Offset drive For nutrunner when space

is limited (e.g. plate heat exchangers)





XB 1 Hydraulic power pack with protective shields and an extra manometer



Threaded column connection mechanism for pre-stressed concrete reinforcement

2

DE Double nutrunner for production line cylinder head assembly

PISTOLA AZUL

PISTOLA ROJA

DEM



Overview

Trolley for hydraulic power packs – for mobility in plants and workshops

Aluminium frame, 2 integrated handles, lockable-quick lock, rollers with solid rubber tyres and roller bearings, brake and caster wheels

Assortment of tubes/hoses and adapters

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Plarad hoses with a fourfold safety factor upto 800 bars (bursting pressure 3200 bars)



Lubricants



Various reaction arms



Valve wheel driver for valves

Various sockets and fittings



Customer focus



Consultation and assistance for use of equipment in Russia



Product advice from our specialists onsite



Test equipment and product demonstrations available



Plarad support during the construction of a wind plant in China

Demonstration of equipment by Plarad employees in Italy

Our support service includes financial analysis of your project, instruction on the operation of the equipment, loan equipment, equipment calibration, maintenance and more.

We check your bolting needs by means of precise measurement of torque while bolts are being tightened.



3D CAD analysis

Give us the data on your bolting joints in whatever format you want: E.g. Hand-drawn sketch



We will use your information to create a 3D model on our own CAD system. This enables us to recommend the optimum tools for your needs. Where appropriate we can customise a bolting system for your individual needs.

You will receive our recommended solution in the form of a printout and a 3D animation (use "Autodesk" dwf viewer).

Our wide range of products enables us to find the most economical solution for you.







We pass on our know-how!

We continually offer advanced training within the organisation to enhance the knowledge of our employees.

We cooperate with PSA Sicherheitstechnik GmBH & Co. KG in operations worldwide, providing detailed support for training and safety instruction (for example, working at height, where this is a risk of falling), both for our own employees and for yours.

Training and seminars for your employees

- Maintenance and repair of torque tools:
 - Relevant maintenance
 - Fault diagnosis
 - Repairs
 - Adjustment, calibration and testing

- User training:
 - Basic bolt fitting and technology
 - Safety aspects
 - Handling and positioning torque tools
 - Equipment settings

- Training courses in colleges and academies:
 - e.g. Basic bolting techniques







