

**PLARAD**<sup>®</sup>  
Torque & Tension Systems

# Dual-Power Packs

800 + 1,600 bar (11,600 + 23,200 psi)



# Dual-Power-VAX

# 2 in 1

## Electrical fully automatic Power Pack for hydraulic wrenches and tensioners

- 2 in 1 – saving of one Power Pack
- Fully automatic pressure loading of the tensioner
- Automatic turn-off device
- Multilevel delivery rate
- Learning stroke in torque mode of 800 bar (11,600 psi)
- User-friendly – one remote control with identical functions. The user is familiar with the operation.



Torque Tools

**800 bar**  
11,600 psi



**1,600 bar**  
23,200 psi



Tensioners



# A world novelty

## The fully automatic Dual- Power Pack now also pneumatic!

Buy one and profit from the functions of 2 fully equipped Power Packs! The new Dual-Power-VAX Power Pack is applicable for bolting- and stroke devices up to 800 bar as well as for tensioner applications up to 1,600 bar!

**Using this all-purpose hydraulic pump saves the purchase of an additional Power Pack!**

Our customers profit from the safe use in both applications. The user activates the fully-automatic tensioning process with a single push of a button. When the required pressure is achieved, the Power Pack turns off automatically and the pressure is kept in the tensioner. After positioning the nut pressure is released.

**PLARAD**

# 1

## Modular upgradeable ...

- Short pay back period
- Reduced costs
- Demand-oriented investment
- Future-proof acquirement



**IQ-VX**



**IQ-VAX**  
Fully automatic  
bolting  
procedure

## Exclusively with Plarad

### 1

#### Modular upgradeable ...

... up to fully automatic high-tech solutions

### 2

#### Modular extensible ...

... up to tailor-made all-in solution

### 3

#### Fully automatic ...

... for precise and reliable bolting results

### 4

#### Tensioner mode ...

... for constant pressure

### 5

#### Effective cooling ...

... due to unique temperature management

### 6

#### Increased performance ...

... with decreased weight

### 7

#### Extremely durable ...

... by means of fully developed technology and protection of the wrenches

## 2

## Modular

- Demand-oriented investment
- Reduced weight
- Easy-to-handle
- Wide range of applications
- Many additional options

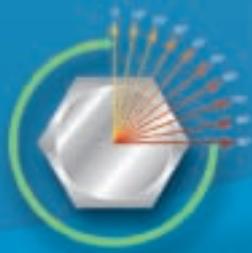


#### Digital remote control

Pressure indicator and status report. The pressure release can be controlled via remote control. Pressure release of the tensioners via remote control possible. Pressure indication up to 800/1600 bar (11,600/23,200 psi).



**Control Unit**  
Enter of actual values into easy-to-handle electronic device unit



**Multi-level torque process**  
For example Torque/Torque Angle or yield strength controlled



**Tensioner Mode**  
Diagnostic and control system for tensioners



**Documentation**  
Analysis and documentation of the actual values

## extensible ...



**Additional tank**  
When larger oil volume required



**Synchro**  
Parallel use of several hydraulic wrenches

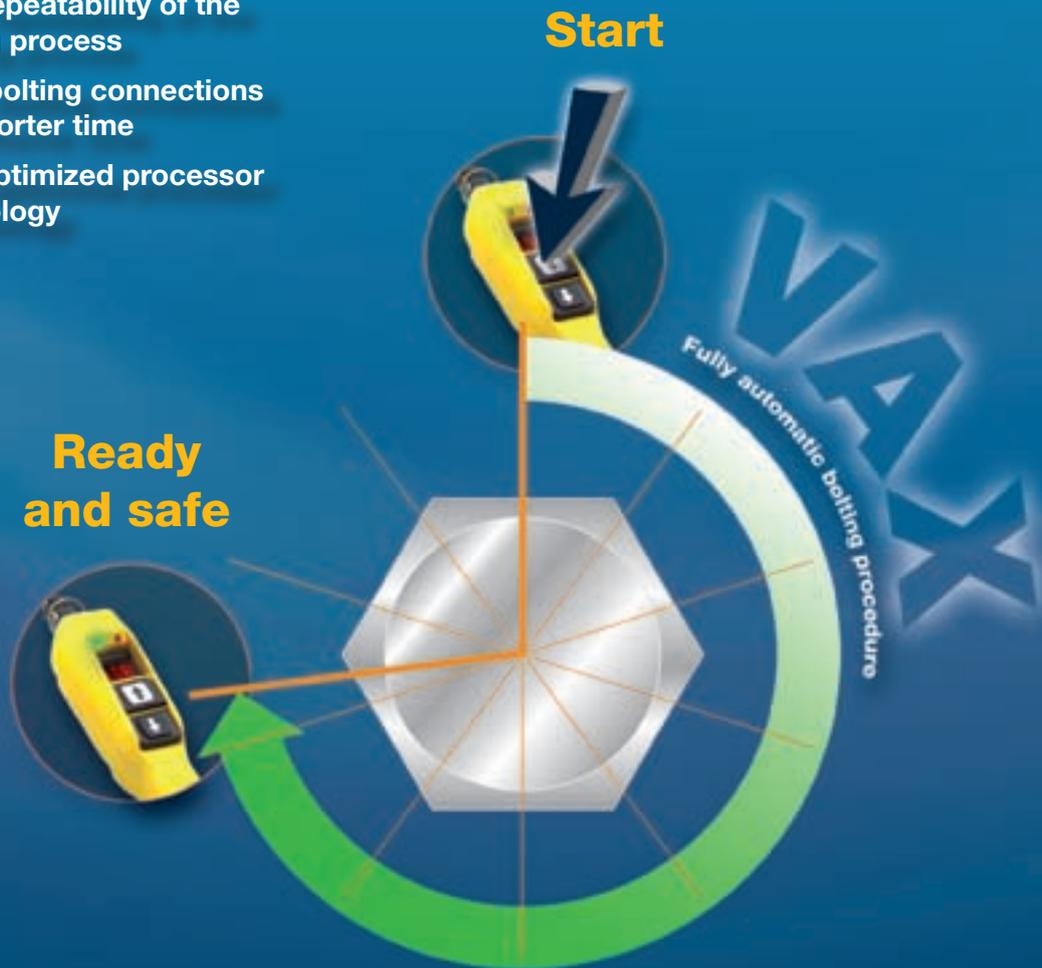


**Multi-use**  
Tensioners, jigs (800 + 1,600 bar/ 11,600 + 23,200 psi), and nut splitter ...

3

## True fully automatic: VAX

- Faster, more intelligent and reliable
- Safety due to fully automatic bolting procedure initiated by a single push of a button
- No intervention or control by user is necessary
- High repeatability of the bolting process
- More bolting connections in a shorter time
- New optimized processor technology

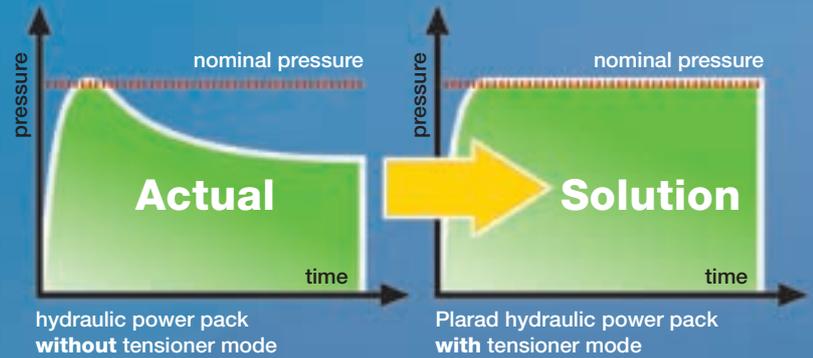


Without fully automatic:  
Many separate steps are necessary,  
and the result might be influenced  
by the worker.



## 4 Tensioner mode

- A special tensioner mode can be integrated. That analyses the setting and the pressure is automatically increased in case of need. The pressure is continuously kept.



## 5 Temperature Management

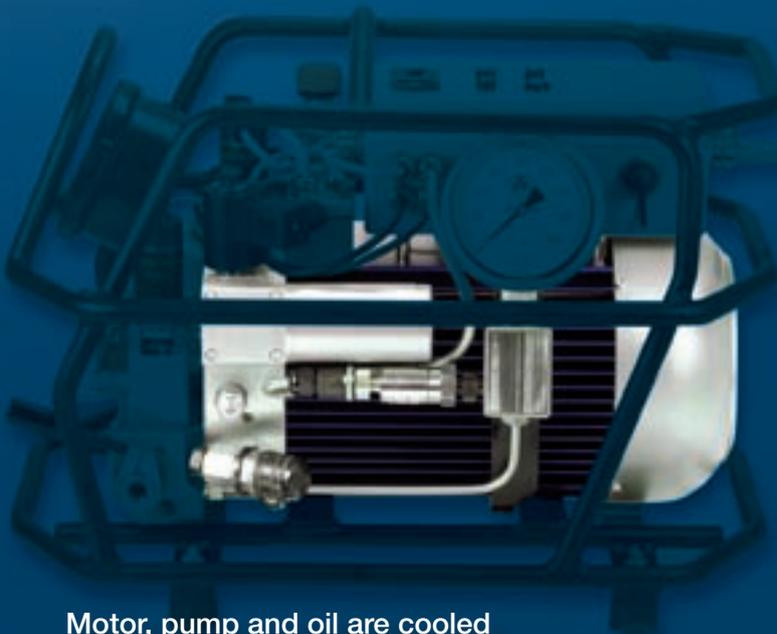
- Optimized cooling for continuous operation due to the unique concept of the high-speed cooling. No additional cooling device necessary.
- The submersible technology leads to an effective temperature equalization. The oil is cooled and therefore the viscosity does not change. The motor is mechanically protected.

## 6 Optimal performance/weight ratio

- The submersible technology guarantees an optimal weight with highest performance.

## 7 It runs and runs ...

- Plarad bolting systems stand for high operation safety and high durability.



Motor, pump and oil are cooled at the same time

Motor and oil tank in one unit, no additional oil tank necessary



Conventional design: overheating and inoperative

# Technical data

## Electrical driven units

### Dual-IQ自動油圧ポンプ

- 最高油圧  
80 MPa (800bar)  
160 MPa (1600bar)
- 最大吐出量  
80 MPaモード 8.0/1.2 l/min  
160 MPaモード 8.0/0.4 l/min
- 重量  
38,5 kg
- Operating voltage  
Available for all common voltage ranges.
- Coupling  
Dualhosetechnology



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株式会社 日本プララド  
<http://www.plarad.net/>

〒651-2404 兵庫県神戸市西区岩岡町古郷255-6  
TEL 078-967-3556 FAX 078-967-3567