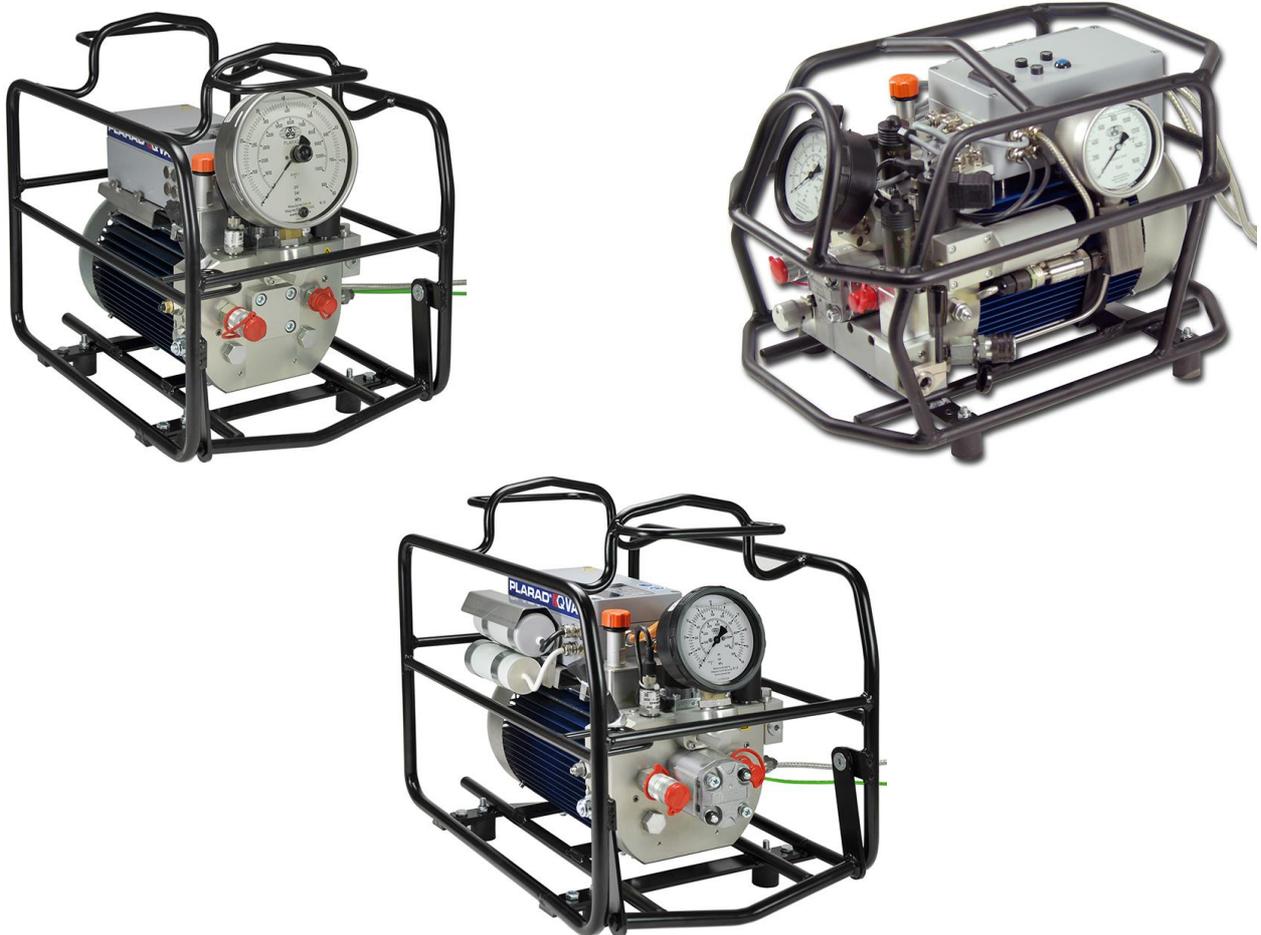


Electric power pack
Series X32
IQ-VAX / XB-VAX



Quick Operating Manual



Translation from original
Store for future reference.





This quick operating manual is no substitute for the comprehensive operating manual

Remote control display

The status bar may display the following icons:



Menu



Tensioner mode without automatic repumping



Tensioner mode with automatic repumping



Error



Pressure adjustment mode enabled (1500bar tensioner mode) or calibration required (800bar bolting mode)



Torque mode



Multi-bolting mode



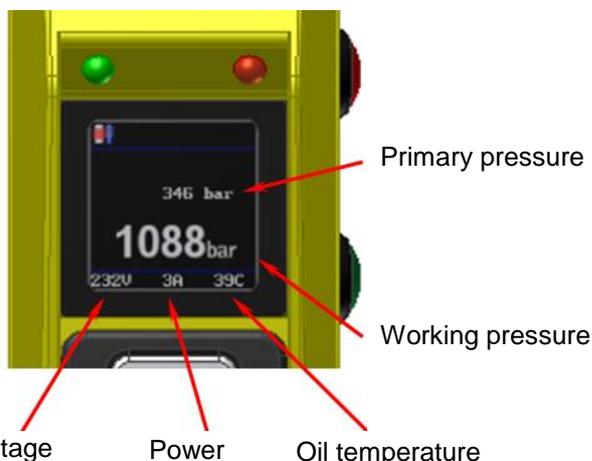
Loosening mode



Torque-angle mode



Connected to PC or control unit



Mains voltage

Power

Oil temperature

Setting up the basic settings of the power pack

To access this menu, press and hold the red button while pressing the green button.



Navigate by using the button combination of red button and button “automatic” or “manual”.

Select a child menu using the green button.

You confirm the desired function by pressing green button again.

Press the red button to go back.

Press the red button again to exit the menu.

Preparing the power pack



Check the oil level of the power pack. The oil is at the right level when at the bottom edge of the sight glass at room temperature.

Check the cables for damage.

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You select a function in the child menu “Mode”

Screen display mode



Bolting mode

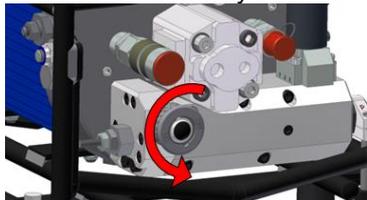


Tensioner mode



Multi-bolting mode

You switch manually between torque and tensioner by setting the changeover valve on the pressure booster.

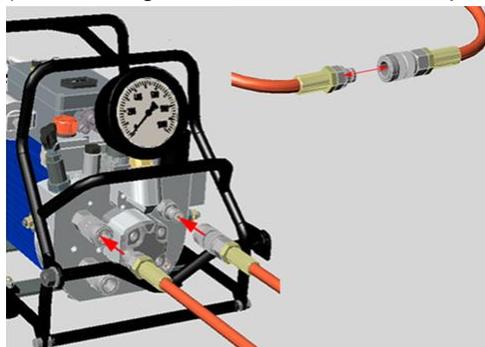


Flush and bleed the hydraulic hoses

Do not yet connect the tool.

When working with single hoses, connect the hose ends with the power pack.

(When using twin hoses, connect coupling and nipple with the power pack and fit together flow and return)



Flush the hoses by switching on the power pack (press the “manual” button).

Stop flushing the hoses by pressing the red button.

(Switch off the power pack)

Working with hydraulic tools



Attention!

When setting the hydraulic pressure, you must never exceed the maximum permissible operating pressure of the tool you are using! (see torque table).

....

Manual mode, tensioning

Setting the required operating pressure

Switch on the power pack by pressing the “manual” button.

Adjust the pressure by pressing and holding the “manual” button again and by setting the required hydraulic pressure on the pressure adjusting valve.



Pressure adjusting valve

Connect the tool with the hydraulic hoses and place it onto the bolting. (Observe the rotational direction for tensioning and loosening.)



Generate the tool prestroke by pressing the "manual" button.

You generate the tool return stroke by releasing the “manual” button.

Switch of the power pack by pressing the red button.

(When idle beyond a certain window of time, the power pack will switch off automatically and needs to be restarted.)

Automatic operation, calibration

Selecting tensioning/loosening mode

You switch between tensioning and loosening mode by pressing and holding the red button and pressing the "manual" button.



LED green = Tensioning mode
LED red = Loosening mode

Connect the hydraulic hoses with the tool after bleeding them.

Do not yet place the tool onto the bolt.

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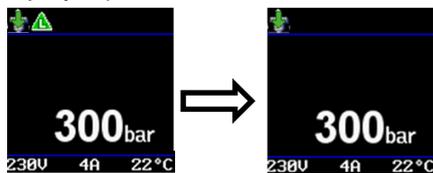
Switch on the unit by pressing the button "manual."

Check the pressure setting using the "manual" button.



Press and hold the "automatic" button during calibration.

(The calibration process is complete when the LED green is lit permanently and the icon "L" is no longer displayed).



(The bolting system is now prepared for automatic operation).

The measured value stored in the memory of the unit can be deleted by pressing the buttons red and "automatic" or by disconnecting the power pack from the mains voltage.

Automatic tensioning or loosening

The selection of tensioning or loosening mode must have been made.

The operating pressure must have been set.

Start the power pack by pressing the "manual" button.

Place the tool onto the bolt, paying attention to the tool's rotational direction for tensioning or loosening.

Execute the bolting process by pressing and holding the "automatic" button.

In tensioning mode, the power pack will switch off automatically upon reaching the preset pressure.

(While bolting is in progress, the green function light will flash and switch back to permanent light when the unit switched off correctly).

You exit loosening mode by releasing the "automatic" button.

(While loosening is in progress, the red function light will flash and switch back to permanent light when the button is released).

The bolting process is complete when the green LED is lit permanently and a message is displayed on the remote control:

Bolting is aborted with an error indicated by the flashing of both LEDs and a message on the remote control.

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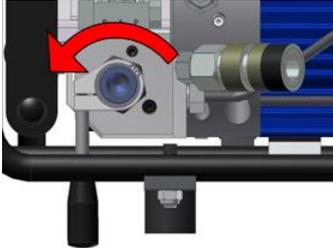
Reset the error message and reassume control of the power pack with a press of the “automatic” button.

Working with tensioners (Dual power packs)

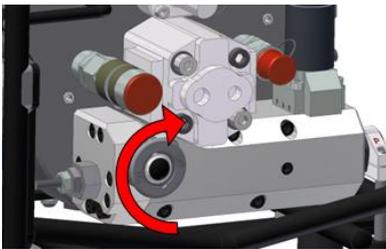
Additional necessary steps
(dual power packs only)

Switching from torque bolting to tensioner mode

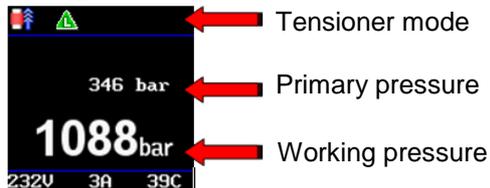
To build up pressure, close the pressure relief valve.



Switch the changeover valve - pressure booster to "ON".



Setting tensioner mode on the remote control



Connect the hydraulic hose to operate the tensioner with the hydraulic coupling attached to the power pack on the side.



Warning!

Hot hydraulic fluid may escape under pressure and cause severe burns and cutting injuries.

Use only hydraulic hoses that have been certified for the extended pressure ranges (1,500 bar or 2,400 bar)!

Setting the operating pressure

The hydraulic hose must be connected without the tensioner.

Depressurise the power pack by opening the pressure relief valve all the way.

Pressure setting in semi-automatic mode Start the power pack by pressing the “manual” button once. Next, press and hold the “automatic” button and set the desired pressure by turning the pressure relief valve. During this time, the green function light will be flashing. Once the set pressure is measurably stable, the LED will light up red.

To store the set value once the LED has lit up red, press the “manual” button and activate the automatic function.



Switch off the power pack to connect the tensioner with the hydraulic hose.

Activate or deactivate the automatic repumping function by pressing and holding the red button and pressing the “manual” button once to toggle between the two functions.

The power pack is now prepared for operation with the tensioner. You can place the tensioner onto the bolting.

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Automatic operation of the tensioner

Execute the tensioning by pressing and holding the “automatic” button. The power pack will switch off automatically after reaching the preset tensioning pressure.

Tighten the fastener. Next, relieve the tensioner by pressing the green button.

Turn on automatic repumping by pressing the "manual" button once while holding down the red button.



Relieving the tensioner

The system maintains the pressure generated by the power pack (with the exception of any pressure losses that may occur due to settling processes, etc.).

Before you can remove the tensioner, you must relieve the pressure from the system:

Press the green button on the remote control to depressurise the system.

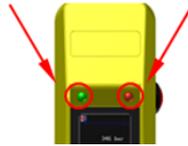
Switching off the power pack

Remove the tensioner from the bolting.

In the event of a fault (e.g. power outage), you can also relieve the tensioner by opening the pressure relief valve.



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LEDs on the remote control

Blinking frequency	Function of IQ-VAX D 1500 with control unit in tensioner mode up to 1,500 bar	Function of IQ-VAX D 1500 without control unit in tensioner mode up to 1,500 bar
LED green - lit permanently	Power pack is set to tensioning mode. Function 1: Power pack is ready for tensioning (you may still have to set the pressure that matches the bolting application!) Function 2: The tensioning process was completed correctly, i. e. the documented pressure stayed within the tolerance limit that was specified by the control unit.	Power pack is set to tensioning mode. Function 1: Power pack is ready for tensioning (you may still have to set the pressure that matches the bolting application!) Function 2 (only with Automatic Repump Mode disabled): The tensioning process was completed correctly, i. e. the set pressure was delivered by the power pack.
LED green - flashing slowly	Power pack is set to pressure adjustment mode.	Power pack is set to pressure adjustment mode.
LED green - flashing rapidly	Power pack is set to tensioning mode. Rapid blinking is always an indication of an ongoing process, e. g. the power pack is starting up or pressure is being built up during the tensioning process.	Power pack is set to tensioning mode. Rapid blinking is always an indication of an ongoing process, e. g. the power pack is starting up or pressure is being built up during the tensioning
LED red - flashing	Tensioner is being relieved.	Tensioner is being relieved.
LED red and green - blinking	An error has occurred.	An error has occurred.
LED red and green - come on permanently	Tensioning is enabled. Target pressure was reached. Bolt can be added. Automatic repumping may occur in the meantime!	In Automatic Repump Mode only: Tensioning is enabled. Target pressure was reached. Bolt can be added. Automatic repumping may occur in the meantime!
LED green - lit permanently	Bolting system is set to tensioning mode. Function 1: following calibration if calibration was OK. Function 2: following the bolting process if bolting process was OK and the documented pressure stayed within the tolerance limit that was specified by the control unit.	Bolting system is set to tensioning mode. Function 1: following calibration if calibration was OK. Function 2: following the bolting process if bolting process was OK.
LED green - flashing slowly	Bolting system is set to tensioning mode. While bolting system is starting up. Calibration has not yet been performed.	Bolting system is set to tensioning mode. While bolting system is starting up. Calibration has not yet been performed.
LED green - flashing rapidly	Bolting system is set to tensioning mode. Rapid blinking is always an indication of an ongoing process inside the bolting system. For instance, the power pack is starting up or the bolting process is in progress.	Bolting system is set to tensioning mode. Rapid blinking is always an indication of an ongoing process inside the bolting system. For instance, the power pack is starting up or the bolting process is in progress.
LED red - flashing slowly	Bolting system is set to loosening mode. Calibration has not yet been performed.	Bolting system is set to loosening mode. Calibration has not yet been performed.
LED red - flashing rapidly	Bolting system is set to loosening mode. Rapid blinking is always an indication of an ongoing process inside the bolting system. For instance, the power pack is starting up or the loosening process is in progress.	Bolting system is set to loosening mode. Rapid blinking is always an indication of an ongoing process inside the bolting system. For instance, the power pack is starting up or the
LED red - lit permanently	Bolting system is in loosening mode after calibration is complete and calibration is OK.	Bolting system is in loosening mode after calibration is complete and calibration is OK.
LED green and red - blinking	An error has occurred.	An error has occurred.

Instructions on disposal

Dispose of the power pack as required by local regulations.



This symbol points out that the product must not be disposed of with regular household waste as specified in the WEEE directive (Waste Electrical and Electronic Equipment Directive, 2002/96/EC) and national laws.

ATTENTION!

- **Dispose of this product at an authorised waste collection facility.**
- **Return the product if, for instance, purchasing a similar product or take it to a waste collection facility that is authorised to recycle waste electrical and electronic equipment.**
- **Turn to your local administration office, your public waste disposal authority, a facility that is authorised to dispose of waste electrical and electronic equipment or your waste management company.**



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