

MK31C SMART TORQUE UNIT

THE MOST ADVANCED INDUSTRIAL TIGHTENING TOOL



SAFETY BUTTON

The new algorithm controls the piston movement of any torque wrench, regardless of the manufacturer, detecting in every cycle when full stroke has been reached, activating immediately the retract cycle. This behavior will save seconds per cycle, therefore saving time (30% faster than the closest competitor), energy and heat. Just connect any double acting hydraulic torque wrench, set the working pressure, perform a learning cycle and be ready to work as fast as never before.

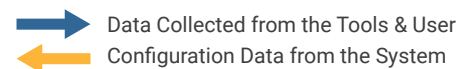
This unit can work in semi-automatic or fully automatic mode; when in automatic mode, once the set torque is reached, it will perform a double confirmation and will hold the pressure for 2 seconds to compensate any bolt relaxation, something that no other pump does and is really important since it sets the difference between torque reached by a peak or by a constant force.

» BOLTPILOT® INSIDE

The BoltPilot System is a Multi-Farm Platform that defines the complete Wind Farm, each Turbine and each Turbine's bolted joints. From that valuable information, the System Controls, Guides, Assures and Records all bolt tightening processes without interfering with the existing procedures.

Among all other features, the System will assure and record:

- **Torque or Torque and Angle Applied.**
- **Tension or Tension and Residual Elongation.**
- **Skidmore Calibration Procedures.**
- **Manufacturer's Specific Procedures.**



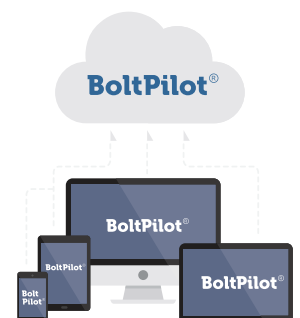
TIGHTENING TOOLS



SMART POWERPACKS

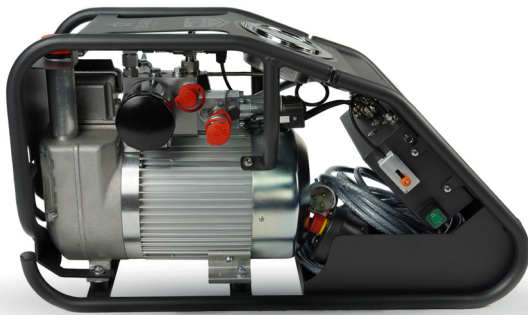


SMARTPHONE



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Current Supply			LP Oil Flow	HP Oil Flow	Usable Oil capacity	Weigh	Máx. Pressure	Height*	Width	Length
Voltage	Frecuency	Current	l/m	l/m	l	kg	bar	mm	mm	mm
230 V	50 Hz	10,5 A	6,9	1,1	1,7	33	800	370	278	680
230 V	60 Hz	11,5 A	5,3	6,8						
110 V	50 Hz	16 A	5	0,5						
110 V	60 Hz	16 A	6,1	0,6						
400 V	50 Hz	3,4 A	7,1	1,1						
460 V	60 Hz	3,3 A	5,4	0,8						

*Optimized dimensions to reduce shipping costs

The MK31c powerpack is a dual stage pump: Gear Pump + Piston Pump to optimize the ratio Oil Flow vs Power Consumption.

» KEY ATTRIBUTE

SAFETY

- Pressure outputs contrary to the limiting valve, pressure gauge and display.
- Limited risks of projections to the user.
- Magnetothermic protection.
- Reset of magnetothermic from the outside.
- Emergency button.
- Compatible with torque wrench enable switch

CUSTOMIZATION

- Adapted to customer needs:
 - Threaded or fast connections.
 - Colour.
 - Customizable Firmware: language, set maintenance times and warnings, etc.

USER FRIENDLY

- PLC control display for messages and alarms.
- Specific maintenance programs such as oil changes and filters depending on the number of cycles performed.
- Magnet handgrip makes work easier.
- Inner compartment for collecting cable.