

JGun

APACHE

Custom-built Model for Z&J Technologies GmbH



Additional Operator's Guide



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Overview

The HYTORC jGun Apache is the newest implementation of pneumatic torque wrenches. It gives a user the ability to shift between two modes: High speed or maximum torque. Physically, the HYTORC jGun Apache is identical to the standard HYTORC jGun with the exception of a modified handle which guides the shifting mechanism.

This additional operator's manual describes functionality and handling of the customized HYTORC jGun Apache for Z&J Technologies GmbH (Figure 1). It can only be used as emergency actuation for gate valves.

 **It is important to read the operations manual of the standard HYTORC jGun which gives general operating and safety information.**



Figure 1

Setup

Proper setup of the jGun Apache before and during installation ensures accurate results and safe operation. The FRL Unit provided with the jGun must be used with the hose provided to ensure the tools durability.



Only use the equipment included in delivery (Figure 2)

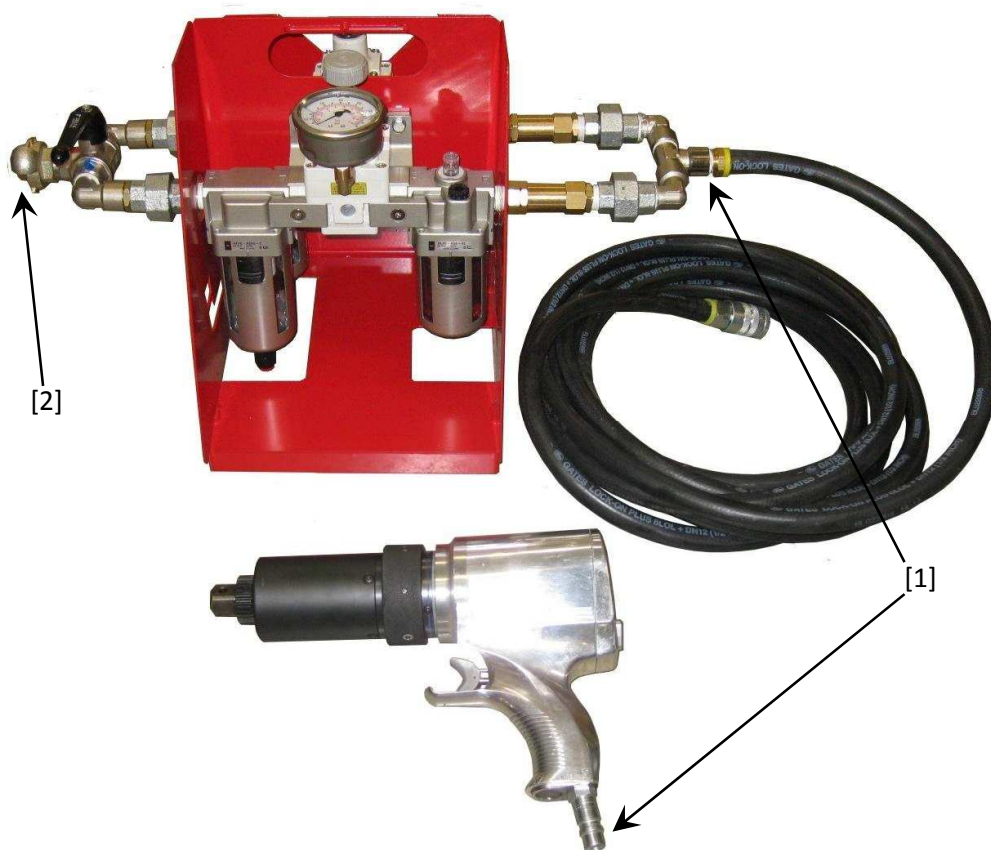



Figure 2

- [1] Connect the hose with both FRL Unit and torque wrench.
- [2] Air supply line must be $\frac{1}{2}$ " minimum diameter to allow adequate air flow to the jGun. Air supply must be 90 psi at 30 cfm minimum.

Use

Make use of the two different modes as described:

-  **Close the gate in high speed mode.**
- Seal the valve in maximum torque mode.**

High Speed Mode

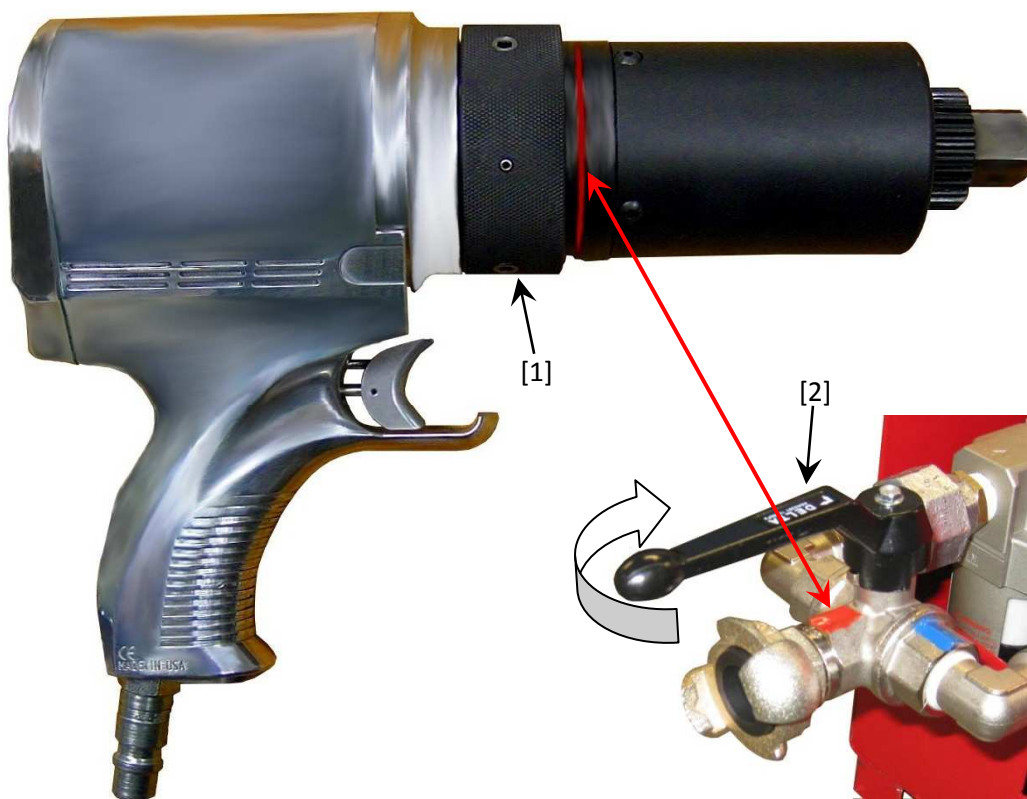


Figure 3

- Torque wrench: Turn the handle [1] until the **red** line appears.
- FRL Unit: Turn the lever [2] above the **red** spot on the valve.

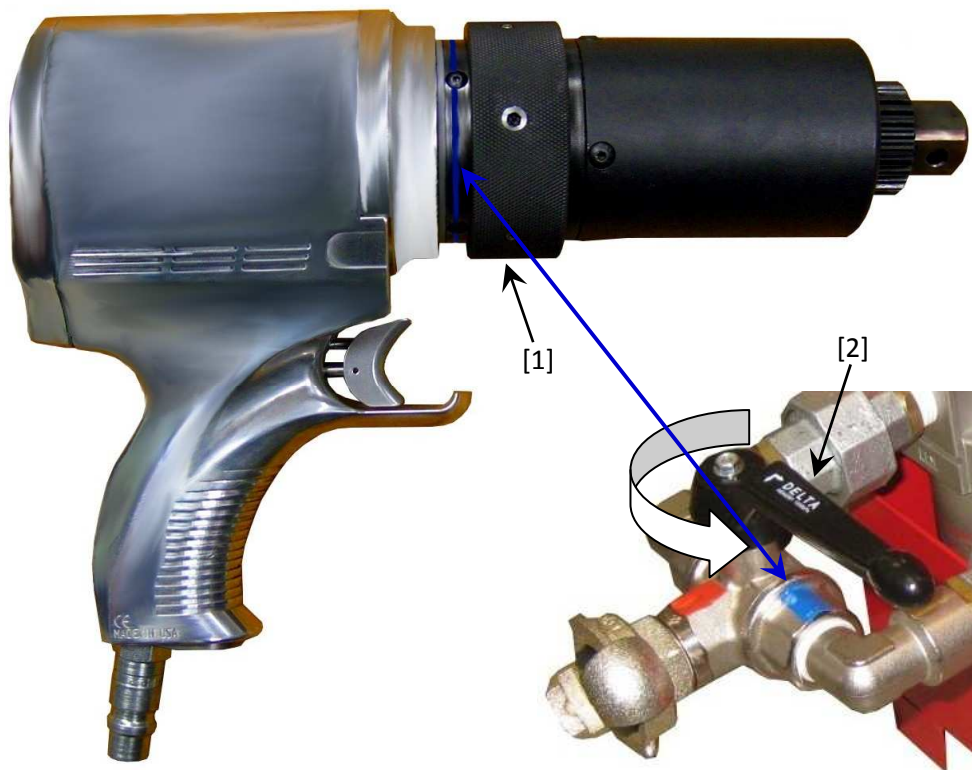
Maximum Torque Mode

Figure 4

- Torque wrench: Turn the handle [1] until the **blue** line appears.
- FRL Unit: Turn the lever [2] above the **blue** spot on the valve.

Changing the Drive Direction

Change the square drive direction from forward to reverse or vice versa as described:

- Move the directional lever on the back cover to the left (**Tighten**) or right (**Loosen**).
- Be sure the lever is fully engaged in either direction before operating the gun.



Figure 5



[1] TIGHTEN
[2] LOOSEN

Important Safety Notes



Do **ONLY** operate the HYTORC jGun Apache when both handle at the torque wrench and lever at the FRL Unit are adjusted to the same color! Otherwise tool and machine will probably be damaged!

Always check ...

Red <-> Red

Blue <-> Blue



The regulator nob [1] at the FRL Unit is preadjusted to approx. 70psi / 1300Nm (Maximum Torque Mode). If you have to increase torque for loosening you will have to readjust the nob according to the torque conversion chart.

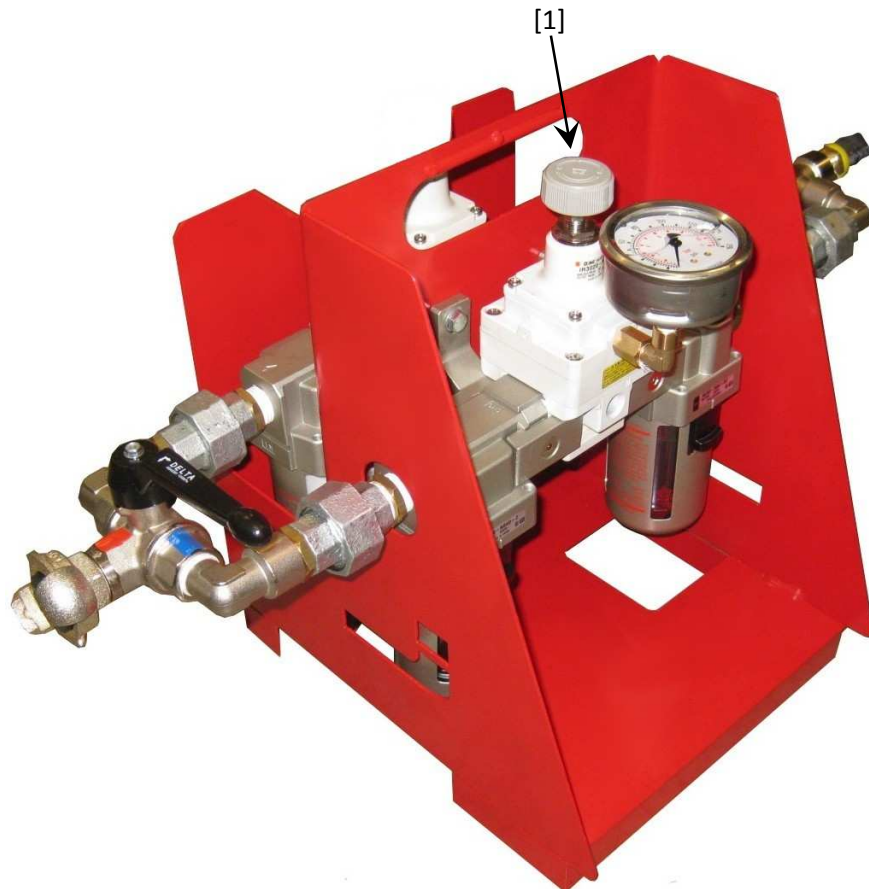


Figure 6