



# Diver Operated Class 1-4 Torque Tool

This torque tool has been specifically developed to provide the highest level of performance. It has integral torque and turns counting sensors for accurate control. These can be utilised by connecting a PSSL Universal Subsea Display, which would give a visual read-out of live torque feedback and/or turns counter. USD sold separately.

The tool conforms to the ISO 13628-8 Fig 18 class 1-4 bucket style used extensively in the subsea industry for valve overrides operated by a diver or ROV. The tool has a single lever control for the latching wings allowing the tool to hold on to the interface. The latching wings are hydraulically driven forward and spring retracted. Thus in the case of a loss of hydraulic power the wings will release. The tool uses a high specification drive motor for consistent torque output characteristics, even if used with direct hydraulic pressure control without the feedback sensor. The direction and torque generated by the tool is controlled by a 3 way proportional lever, providing clockwise, anti-clockwise or zero rotation. The motor shares casing oil with the gearbox therefore avoiding the need for a separate compensator.

## Features.

- ISO 13628-8 Class 1-4 Torque.Tool
- 80-400ft lbs/ 400-2000ft lbs dual range.
- Available Torque Feedback.and / or Turns Counter.
- Complete Diver Control of Socket Torque, Direction of Rotation & Latching Wings



Fish-tale handle & Control levers removed for transport in packing case.

## Specifications

Interface:	ISO 13628-8 fig 18 Class 1-4
Maximum Torque:	With gearbox multiplier 400-2000 ft lbs
Recommended Range:	(540-2700 Nm) With internal 1:1 drive 80-400 ft lbs (108-540 Nm)
Motor Size:	236 cc
Latching Strength:	1 tonne @ 160 Bar
Materials:	Steel motor and gearbox, Duplex socket, Aluminium housing, Acetal nose
Weight:	34 kg in air / 28 kg in water
Hydraulic:	Mineral Oil
Electrical:	8 Pin Connector- Speed and Torque Feedback

## What's in the box.

- A019-959-750**
- Diver Operated Torque Tool.
  - Class 1 & 2 Socket (11/16" Sq)
  - Class 3 socket (1-1/8" Sq)
  - Class 4 socket(1-1/2" Sq)
  - Fish Tail handle and cage.
  - Hose Set (JIC with Swagelok adaptors)
  - Low range convertor
  - Manual



Data Sheet: A001-350-135 issue 2

The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.