



ISO 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. When matched with a PSSL Torque Tool Control System, it can provide precise feedback on torque response of any subsea operation.

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 ROV. The tool has 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 motor shares casing oil with the gearbox therefore avoiding the need for a separate compensator.

Note that for applying torques less than 80 ft lbs we recommend the class 1&2 tool.

Features.

- ISO 13628-8 Class 1-4 Torque.
- 80-400ft lbs/ 400-2000ft lbs dual range.
- Torque Feedback.
- Turns Counter.
- Latching Wings.



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

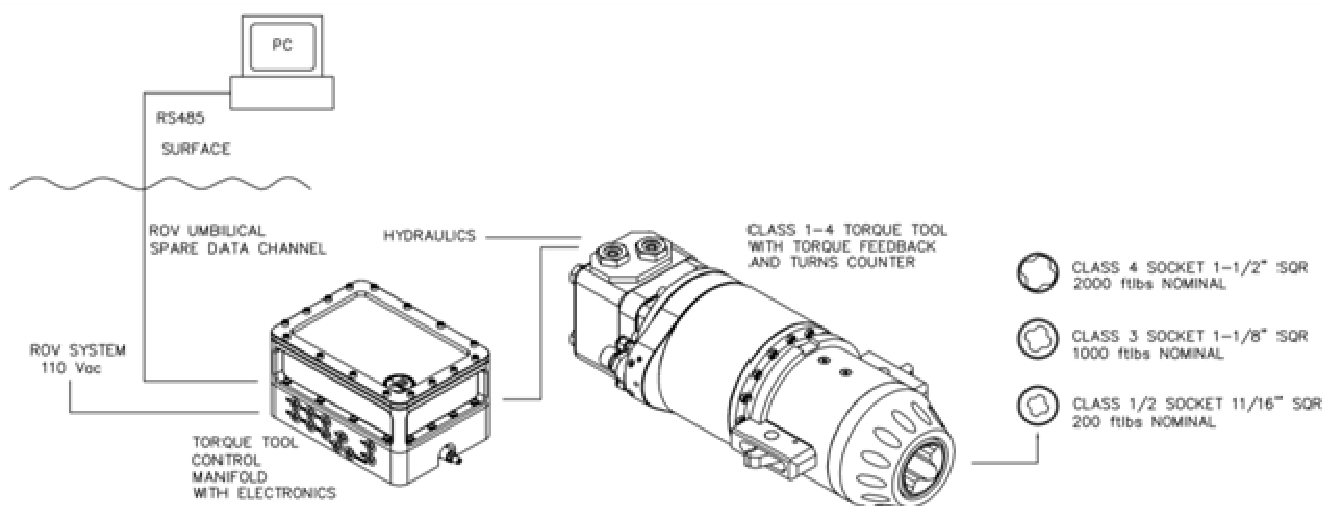
What's in the box.

A019-959-959/01

- 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



Torque Tool & Control System Configuration.

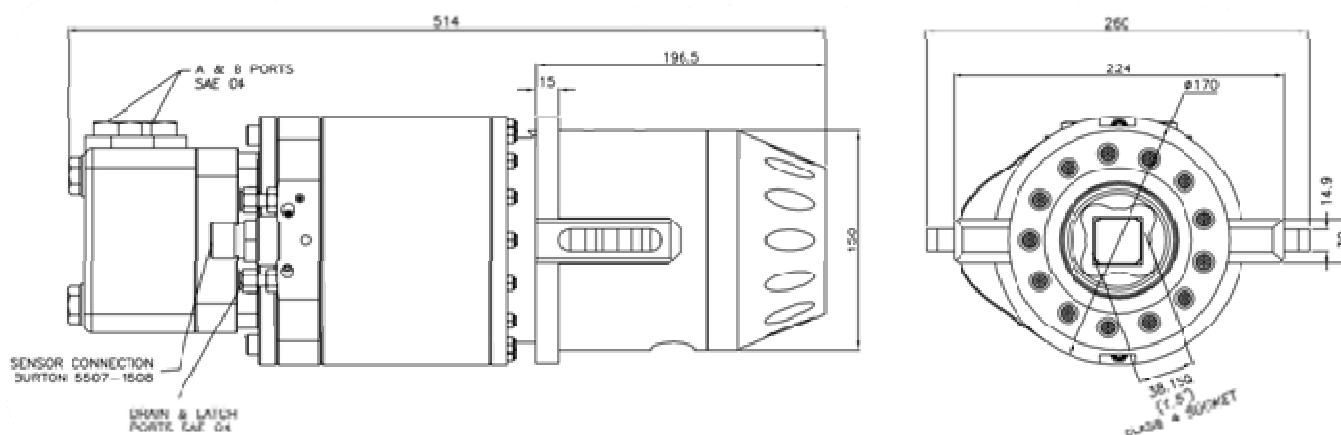


Part Numbers & Options

- A019-959-959/01 Torque Tool System with sockets, case, hoses, handle.
- A019-959-959/02 Torque Tool System with sockets, case, hoses, handle and USD.
- A019-959-202/01/S Spares Kit.
- TX00105-100-00 Surface Verification Unit.
- TL0011-0000-00 Subsea Verification Unit.
- TL0017-0000-00 Flying Lead Tool
- A286-001-050/04 Torque Tool Control System.
- A019-901-102 3 Stage Manifold. (Use instead of Torque Tool Control System).
- A019-959-150 17H (High Torque) Nose Adapter.
- A019-959-400 Petrobras Nose Adapter Kit .

Data Sheet: A001-350-006 issue 10

Overall Dimensions.



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.