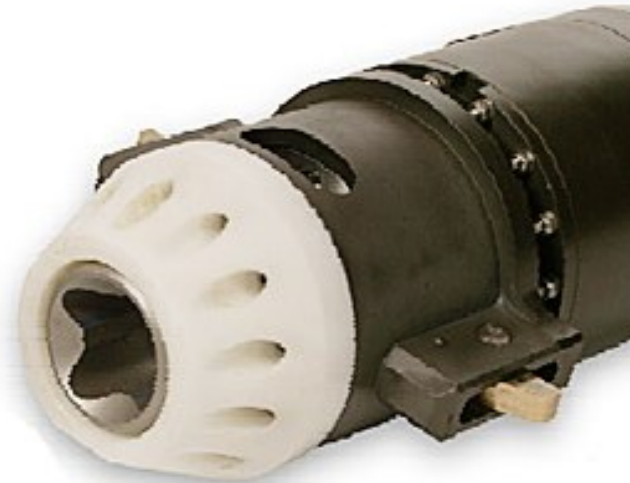


# Class 1-2 Torque Tool

This torque tool has been specifically developed to provide the highest level of performance. It has integral torque and turns counting sensors. When matched with a FORUM supplied torque tool control manifold, it can provide precise feedback on torque response of any sub-sea operation. These can alternately be utilized by connecting a FORUM Universal Subsea Display, which would give a visual read-out of live torque feedback and turns count. USD sold separately.

The tool conforms to the ISO 13628-8 Fig 18 Class 1 and 2 bucket interface used extensively in the subsea industry for valve overrides operated by ROV. The tool can also be supplied with a socket to operate paddle and t-bar style interfaces to ISO 13628-8 Fig.13 (a), (b), (c).

The sensor section directly measures the torque between the reaction lugs of the tool and the driven shaft. The sensor is a strain gauge bridge optimized for torsion measurement. When the tool is fitted with the paddle type socket, the torque reaction is taken through the manipulator handle but still measured by the sensor.



## Technical Specifications

Torque Interface:	ISO 13628-8:2001 (E) Fig 18 & 13
Torque Range:	30-160 Nm (22-120 ft lbs)
Typical Repeatability:	+/- 6% (geroter variation at full load)
Socket sizes:	11/16" Sq Class 1 & 2 Socket
	Paddler/T-bar to ISO fig 13 Socket
	26/18 kg
Weight (air/water):	8 Pin Burton
Electrical Connector:	Dual Sensor Inductive Turns count sensor
Sensors:	Internal Strain Gauge
Hydraulic:	Mineral Oil