

ROV / DIVER TORQUE MULTIPLIER GEN-2

TORQUE & TURNS FEEDBACK
MULTICLASS END EFFECTOR
SUBSEA TORQUE ADJUSTMENT



Descriptions

The Torque Multiplier Tool Gen-2 is a compact and ROV friendly multiclass torque tool designed for operating Class 1-4 subsea valves and MQC plates up to 1200 Nm torque applications.

The Torque Multiplier Tool (TMT) is a fully mechanical ROV manipulator/diver torque tool that require no hydraulic or electric power- and communication. Reducing the risk of hydraulic fluid spill, hose management and electrical cables.

The tool comes with a mechanical latch system for standard API 17D bucket.

Torque & Turns display is powered by batteries and is turned on/off or reset using flashing illumination.

The Torque Setting System (calibration/operation) enables the operator to both adjust and verify torque output when subsea.

The Torque Multiplier Tool has a built-in memory function that enables logging of valve operations when required. The logging files is transferred to laptop thru USB adaptor cable.

Other end effector available upon request (paddle valves)

Typical Operations

- ▣ Class 1-4 valve operations up to 1200 Nm
- ▣ Paddle valve operations
- ▣ MQC plate latch / de-latch
- ▣ ROV / Diver Intervention works

Features

- ▣ Mechanical torque Tool.
- ▣ Class 1 – 4 multiclass end effector.
- ▣ No hydraulic power required (No leakage).
- ▣ No electric power & communication required.
- ▣ Torque and Turns feedback display.
- ▣ ROV adjustable clutch for safe valve operations.
- ▣ Mechanical latch mechanism.
- ▣ ROV and diver operable.
- ▣ Environmental Friendly compensation fluid.

SPECIFICATIONS

INTERVENTION TORQUE MULTIPLIER

General technical specification

Type	ROV TOOLING
Part number	2203099
Weight (in air / Submerged)	40 kg / 30 kg
Dimensions (L x H)	780 x 310 (incl. grabber bar, flex joint and fishtail)
Minimum torque range	30-1200 Nm
Max running torque	1000 Nm
Max breakout torque	1200 Nm
Output interface	API Class 1 - 4
Latch Mechanism	Spring Force
Gear Ratio	1:5,29

Environmental data

Design Lifetime	25 Years
Depth Rating	ROV Working Depth
Operating Temperature	- 15 / +50 °C
Storage Temperature	- 15 / +70 °C
Compensation Fluid	Panolin Atlantis
Compensation Volume	0,995 ml

Design codes and standards

ISO	ISO13628-1.....
NORSOK	NORSOK E-001/M-001/R-002...
API	API 17D

Display

Supply Voltage	AA Battery
COMS - (transferring log) Optional	USB

ROV interface

Operation & handling	ROV / Diver
	Fish tail / D handle
	API Class 1 - 4

