

KVENNA TORQUE TOOLS



KVENNA TORQUE TOOLS

- Kvenna offers large Torque Tools / Subsea Ball Valve Operators. We offer two different tools, the K-TT400 and the K-TT800, which can operate ball valves from 20" to 34".
- The K-TT400 is designed with three different replaceable adapters to fit the Kvenna top work interface flange for 20", 24" and 28" ball valves. The K-TT400 has a torque range from 20 - 400 kNm.
- The K-TT800 is designed with two different replaceable adapters to fit the Kvenna top work interface flange for 30" and 34" ball valves. The K-TT800 has a torque range from 20 - 800 kNm.
- Additional products such as Subsea Deployment Basket, Transportation Skid, Calibration Unit, Pressure Caps, Protection Caps and Control Systems are offered as a part of a package delivery.
- Torque Tools, Pressure Caps and Protection Caps are all designed to fit the Kvenna top work interface flange and the Kvenna stem adapter.

ABOUT KVENNA

Kvenna supplies services within engineering, manufacturing, assembly and testing for subsea, marine and power projects all over the world.

We have a range of our own-developed products which includes Soft Landing Cylinders and Torque Tools.

Kvenna

Kjøpmannsgata 23
6005 Ålesund, Norway

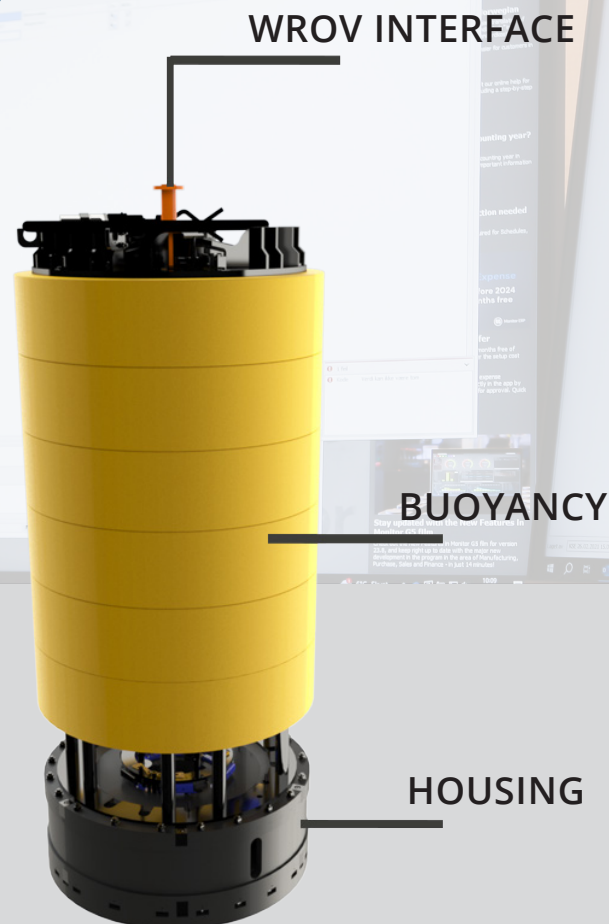
Contact

Tel: +47 70 10 11 00 | post@kvenna.no
www.kvenna.no

KVENNA TORQUE TOOLS

DESIGN PARAMETERS

DESCRIPTION	
Yoke	One Single machined piece
Tool housing	Bolted together
Socket	One single machined piece
Main cylinder	Hydraulic
Pawl cylinder	Hydraulic



TORQUE TOOL GENERAL INFORMATION

DESCRIPTION	K-TT400	K-TT800
Operator type	Hydraulic/ Mechanical	Hydraulic/ Mechanical
Location	Subsea	Subsea
Water depth	1500 m max.	1500 m max.
Design life	25 years	25 years
Torque range	20 - 400 kNm	20 - 800kNm
Torque in normal condition	200 kNm	400 kNm
Hydraulic operated ratchet	18° per stroke	18° per stroke
Operating temperature in air	-18°C to 55°C	-18 °C to 55 °C
Operating temperature in water	3.3 °C to 17 °C	3.3 °C to 17 °C
External medium	Air and sea water	Air and sea water
Outer diameter	1000 mm	1260 mm
Height without buoyancy	421 mm	458 mm
Height with buoyancy	2449 mm	2467 mm
Weight in air	1423 kg	2208 kg
Weight in water	25 kg +/- 5 kg	25 kg +/- 5 kg

TORQUE TOOL PRODUCT FAMILY

TORQUE TOOLS



K-TT400



K-TT800

TRANSPORTATION & DEPLOYMENT BASKET



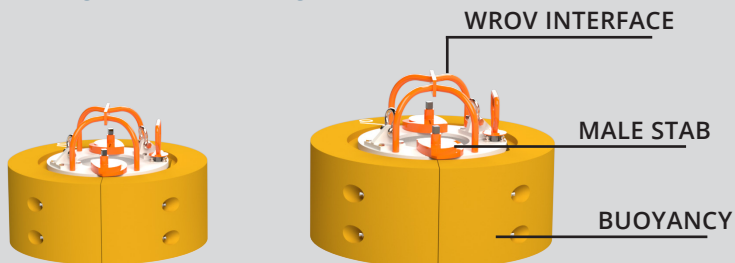
TRANSPORTATION SKID



DEPLOYMENT SKID

PRESSURE CAPS

Designed to protect the top work from any damages and marine growth.

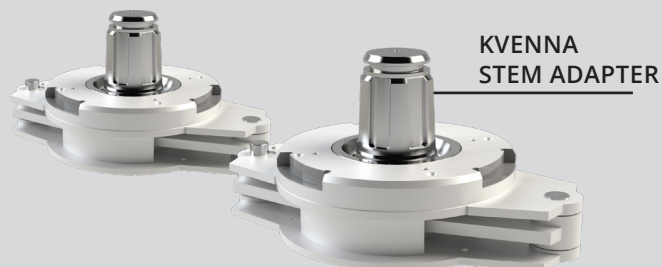


K-PC400

K-PC800

CALIBRATION UNIT

For easy calibration of Torque Tools.



K-CU400

K-CU800

PROTECTION CAPS

Designed to protect the top work from any damages and marine growth.



K-PTC400

K-PTC800

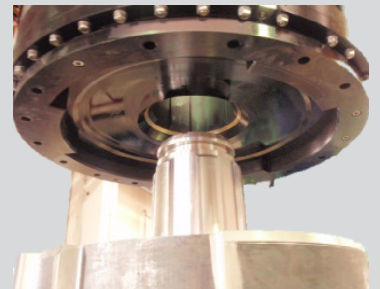
CONTROL SYSTEM



REFERENCES

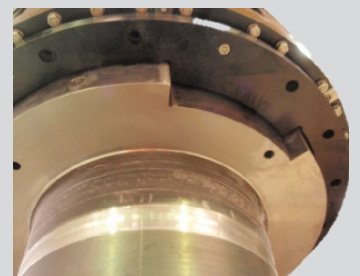
QUANTITY	PROJECT	CLIENT	YEAR
1 off PC400 and 1 off PC800 w/Kvenna Top Work Design	Gorgon	Baker Hughes	2022
2 off PC400 w/ Kvenna Top Work Design	Gorgon	Baker Hughes	2020
2 off PC400 w/ Kvenna Top Work Design	Gorgon	GE Oil & Gas (Chevron)	2011
2 off PC800 w/ Kvenna Top Work Design	Gorgon	GE Oil & Gas (Chevron)	2011

QUANTITY	PROJECT	CLIENT	YEAR
6 off PTC400 and 2 off PTC800 w/Kvenna Top Work Design	Gorgon	Baker Hughes	2022
6 off PTC400	Gorgon	Baker Hughes	2020
4 off PTC400 w/ Kvenna Top Work Design	Gorgon	Gorgon	2011
17 off PTC800 w/ Kvenna Top Work Design	Gorgon	GE Oil & Gas (Chevron)	2011



KVENNA STEM DESIGN

KVENNA REPLACABLE ADAPTER RINGS



INTERFACE FLANGE
KVENNA TOP WORK