

RAD tools Application overview



www.radtorque.nl



BOP'S





OIL & GAS





VALVE MANUFACTURING WITH 20DX-2 (WITH SPECIAL ARM)





MORE BOP – OIL & GAS





SPEEDLOCK



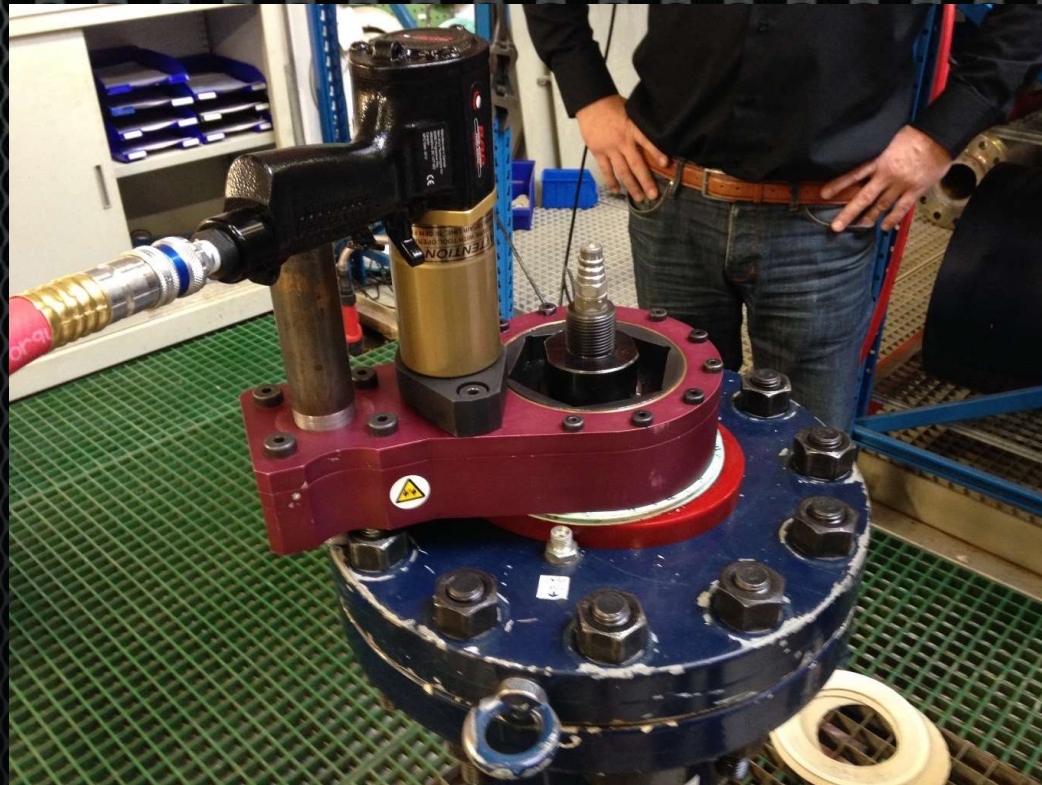


PIPE CLAMPING





HI PRESSURE PIPELINE PLUGS – TIGHTENED WITH 475 & OFFSET GEARBOX



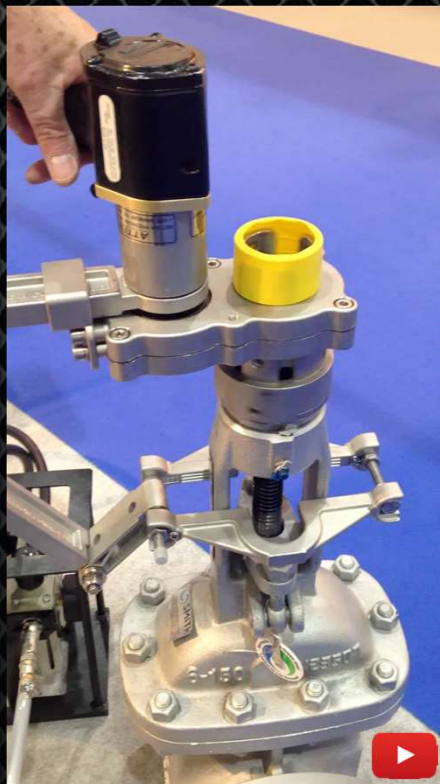


HIGH TORQUE BOLTS – LARGE VALVE PRODUCTION (CAMERON)





VALVE ACTUATION SMITH FLOW CONTROL



<http://www.smithflowcontrol.com/valve-operation/easidrive-portable-valve-actuator-system/>

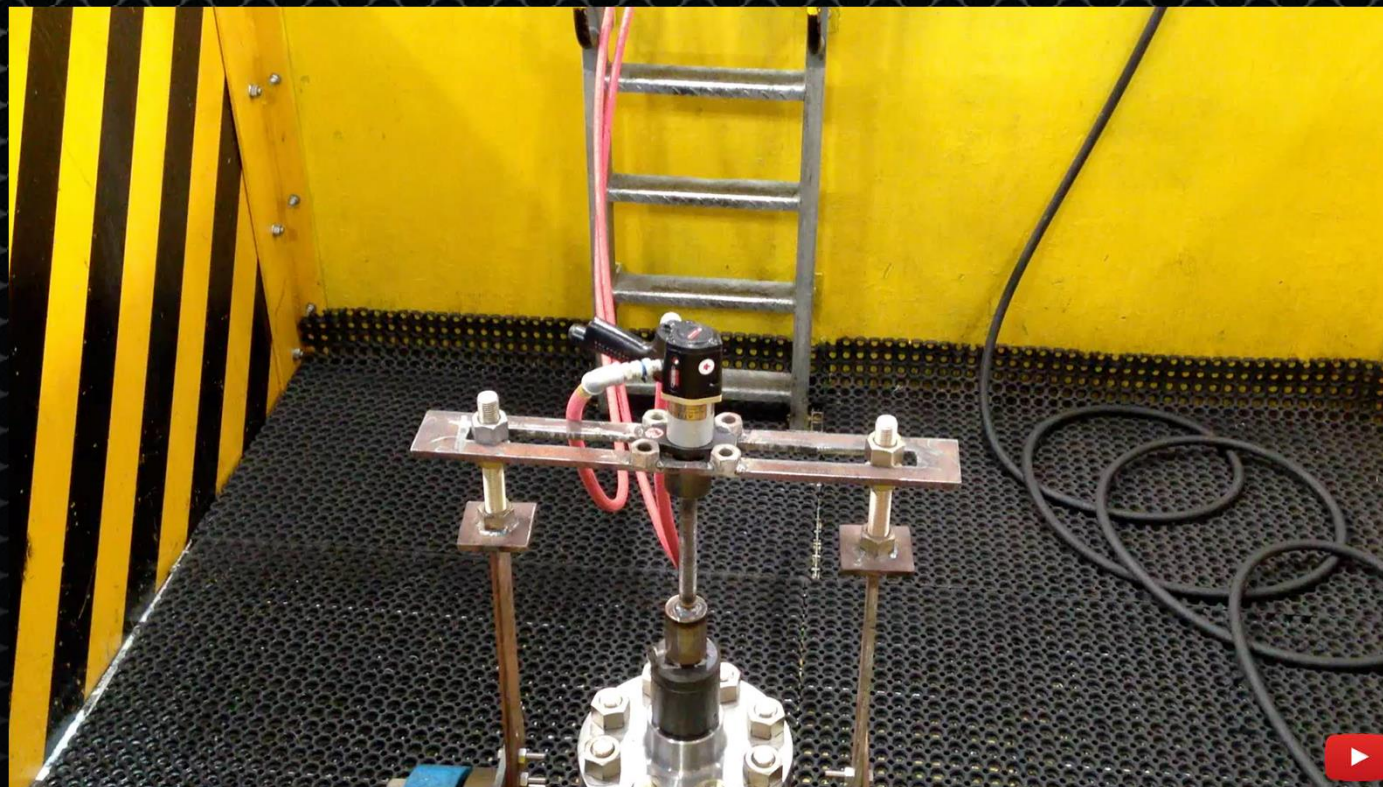


BOP VALVE TESTING – IN BUNKER AT HIGH PRESSURE, MONITORING TORQUE (WITH TRANSDUCER) AS GATE VALVE OPEN





VALVE TESTING – SPECIAL SIDE PORTED RAD GX – WITH REMOTE CONTROL





REMOTE OPERATED VALVE





TIGHTENING BLADE BOLTS - PRE TIGHTENING M72 @ 8000NM - FOR SPEED





WIND POWER



Flange roller system for Windpower
Enables almost weightless control.

Will be suiteable for E-RAD:
8000
10.000
15.000Nm





OFFSHORE WIND TOWER FOUNDATIONS. TIGHTENING @ 15.000NM FOR M64 BOLTS.





WINDPOWER – SPECIAL VESTAS TOOLING – E-RAD 3400-90 & E-RAD 950 WITH INTEGRATED OFFSET GEARBOX





BOLTING OF TRANSPORT FRAMES – SIEMENS. DB-RAD WITH SMARTSOCKET FOR CHECKING





WINDPOWER - MAIN SHAFT CONNECTION – MAIN SHAFT BEARING – TOWER FLANGE M48 @6500NM





SHRINK DISK WITH E-RAD 3400-90



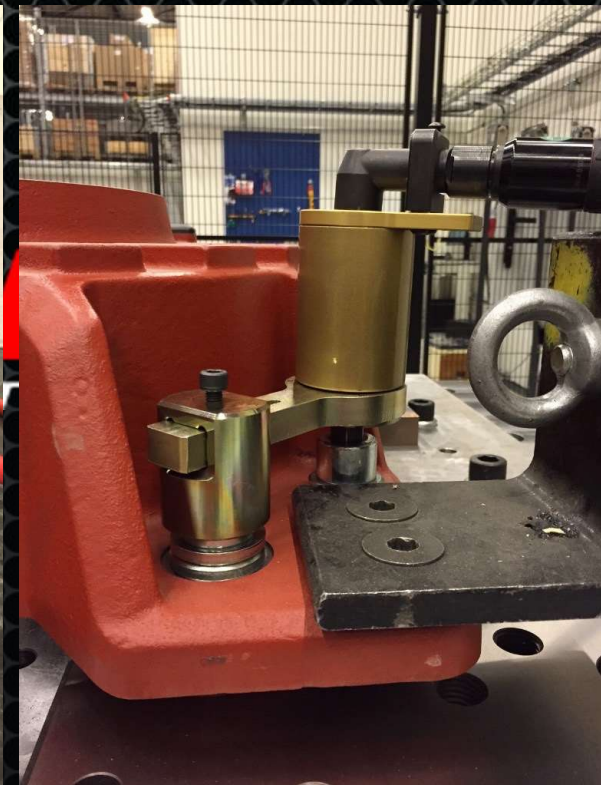


WINDPOWER – HYDRAULIC WRENCH VERSUS E-RAD



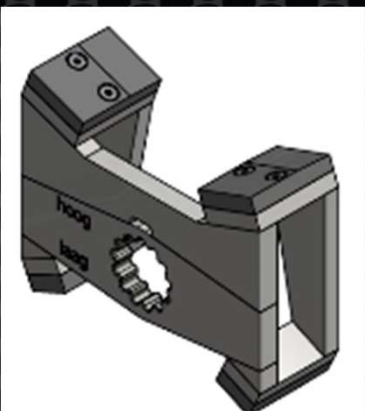


SDM LOW PROFILE ON ABB PRODUCTION ROBOT





RAIL WAY – UNDER CARRIAGE BOLTING





RAIL SERVICE COMPANY (VOESTALPINE) – CONNECTING TRAIN TRACKS



Demo was made with DV 1400, but they bought 14GX-2. Beware of special kit is used during assembly! 14GX came back for service like this after 1,5 yrs (tool was still ok but needed cleaning).



ROAD CONSTRUCTION - EXCHANGING CUTTER HEADS – WIRTGEN ASPHALT STREET MILLING MACHINE





GE GAS TURBINE – LOOSENING 19MM BOLTS WITH SPECIAL RAD VASCOMAX 19MM ALLEN DRIVE



Special 19mm one piece
Vascomax 1"hex drive
Prevents GE from drilling
out all bolts.



GENERAL BOLTING





FERRIS WHEEL CONSTRUCTION – (D)B-RAD ARE IDEAL FOR THIS AS THEY ARE FOR OTHER AMUSEMENT PARK CONSTRUCTIONS



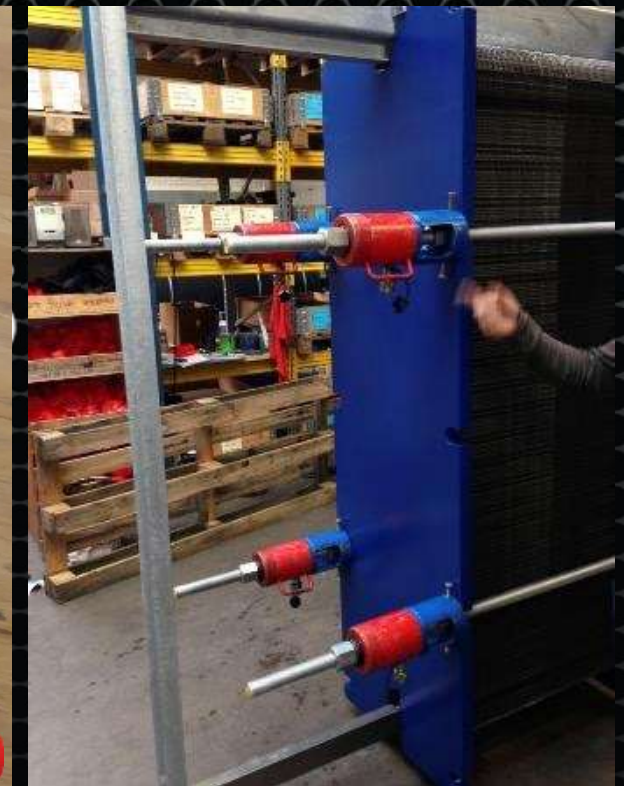


COMMERCIAL VEHICLES – SPECIAL 14GX WITH 2 FIXED PRESSURE SETTINGS. WITH COMPLETE DESIGNED BALANCER KART.





OFFSET GEARBOX 16550



14GX2, 20GX2 and 34GX2 are very effective for plate heat exchangers and can be connected in pairs with reaction bar



WHEEL NUT BOLTING – TRUCK AND TRAILER MANUFACTURING





STEEL CONSTRUCTION OF NEW ZOO (EMMEN ZOO – REPTILE HALL)



Data collection
was required



CABLE CARROUSEL – FOR CABLE LAYING VESSEL

E-RAD 3400-90

E-RAD 4000

E-RAD 8000

Used to construct & test system,
dissassemble in NL and reassemble in S-
Korea E-RAD cut bolting time in half.





ENGINE BLOCKS



Engine Block applications:
Truck, Ships, Trains, MAN,
MTU, Wartsila, Cat etc.





GENERATOR HOUSING ABB

A big advantage of RAD, many times forgotten, is the small diameter of the gearbox. An other competitor's tool did





BREAKLOOSE - DEMOLITION APPLICATION





OFFSHORE ALIGNMENT SYSTEM





TRACK PADS



RAD tool could replace impact:

- One man job instead of 3
- People could hear each other again
- Much better ergonomic position
- No vibrations
- Precise torque
- More power – less bolts needed to be torched





BOTLEK BRIDGE – HIGH VOLUME BOLTS – TORQUE + ANGLE





STEEL FACTORY – HOT AIR FURNACHE BLOWERS



These hot air blowers need to be replaced from time to time.

Fast tool needed for high temperature – 14GX-2 (for top bolts).





FOUNDRY – TIGHTENING FORMS FOR LARGE CASTS



Very aggressive environment Cast for Wind turbine Components. Similar at other foundries.





ELECTRICITY MAST

Electricity mast

Flanges with M48 – 6500nm

Tool: E-RAD 8000

+/- 300 towers – 1 installation
per day with 2 E-RADs.

Inside and outside flange





COMBUSTION CHAMBER GAS TURBINE - RAD 6800 PNEUMATIC TOOL





CONNECTING PONTOONS

Connecting Pontoons

- (B-RAD), V-RAD or E-RAD
- B-RAD was getting too hot for this.



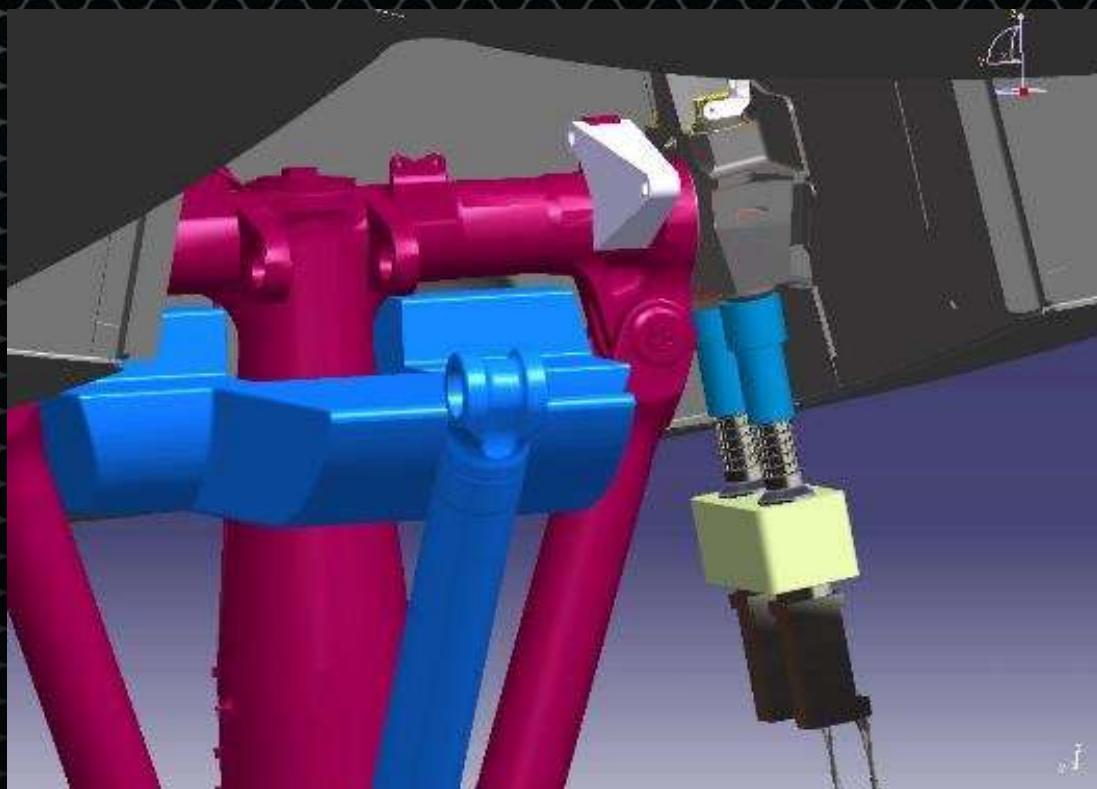


WATERMANAGEMENT – OPENING AND CLOSING LOCKS



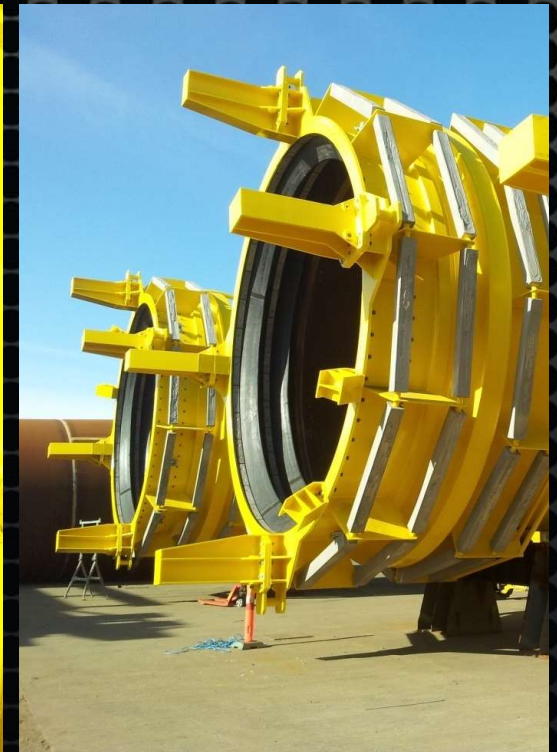


E-RAD DOUBLE SPINDLE FOR LANDING GEAR BOEING 747 /777/ 787





OFFSHORE WIND TOWER TRANSITION PIECES. SEVERAL APPLICATIONS: TIGHTENING RUBBER SLEEVES, GUIDEBLOCKS





SPECIAL KIT FOR: CAT 797 - 797 TIE ROD BOLT - 777 FRONT STRUT





BUS AND SEMI-TRAILER WHEELS

Passenger safety is very important. We have also had request for data logging and torque verification.

Tool:

- 10 GX-R
- 10GX-R TV





EP-RAD – Caterpillar Peoria (IL-USA)

Pneumatic tool with built in transducer with actively shuts off when torque is reached.
Communicates with Caterpillar's pinpoint system to report about torque cycle (pass/fail/error etc)

