



REGENERATOR / REACTOR VESSEL HEAD REMOVAL USER LIST

Client Site	Plant Shutdown Date	Vessel Data	Shell Cutting Method	Internal Refractory Lining	Refractory Cutting Method	General Information
MOBIL Coryton Refinery England, UK	February 1996	Diameter: 9.4 m. Wall Thickness: 26mm. Material: C.S.	Type PM6 Milling M/c.	100mm thick	Electric cutters with diamond & abrasive disc.	Head re-used. Angle prep. machined to top and bottom.
BP Grangemouth Refinery Scotland, UK	September 1996	Diameter: 8.4 m. Wall Thickness: 16mm. Material: C.S.	Purpose built V8 electric grinder Cutter. Abrasive disc.	125mm thick	Electric cutters with abrasive disc.	Head replaced with new one. Straight cut only.
TOTAL Lindsey Oil Refinery England, UK (Mitsui Babcock)	October 1996	Diameter: 8.3 m. Wall Thickness: 20mm. Material: C.S.	Type PM7 Milling M/c.	125mm thick	Electric cutters with diamond & abrasive disc.	Head re-used. Angle prep. machined to top and bottom.
Netherlands Refinery Co. (NEREFCO / BP) Rotterdam, Holland	March 1998	Diameter: 9.4 m. Wall Thickness: 22mm. Material: C.S.	Type PM7 Milling M/c.	100mm thick	Air power cutter with diamond & abrasive disc.	Head replaced with new one. Angle prep (10°) machined to bottom side only.
Yambu Refinery Arabian C.B.I. Saudi Arabia (ARAMCO)	April 1998	Diameter: 13.6 m. Wall Thickness: 26mm. Material: C.S.	Type PM8 Milling M/c.	100mm thick	Electric cutters with diamond & abrasive disc.	Head re-used. Angle prep. machined to top and bottom.
TEXACO Milford Haven Refinery Wales, UK (Ledwood)	September 1999	Diameter: 13.3 m. Wall Thickness: 28mm. Material: C.S.	Type PM8 Milling M/c.	102mm thick (Gunite)	Electric cutters with diamond & abrasive disc.	Head replaced with new one. Straight cut only.
ESSO Refinery Rotterdam, Holland (Stork)	October 1999	Diameter: 11.5 m. Wall Thickness: 19mm. Material: C.S.	Type PM8 Milling M/c.	127mm thick (3BF with S.S. needles)	Electric and air cutters with diamond and abrasive discs.	Head replaced with new one. Straight cut only.
CONOCO Humber Refinery England, UK (Mitsui Babcock)	April 2001	Diameter: 8.1 m. Wall Thickness: 20mm. Material: C.S.	Type PM8 Milling M/c.	100mm thick	Electric cutters with diamond & abrasive disc.	Head replaced with new one. Angle prep (15°) machined to bottom side only.
SHELL Pernis Rotterdam, Holland	April 2002	Diameter: 12.75 m. Wall Thickness: 25mm. Material: C.S.	Type PM8 Milling M/c.	150mm thick	Electric and air cutters with diamond and abrasive discs.	Head re-used. Preps machined 15° bottom 45° top
Netherlands Refinery Co. (NEREFCO / BP) Rotterdam, Holland	October 2002	Diameter: 9.4 m. Wall Thickness: 22mm. Material: C.S.	Type PM8 Milling M/c.	100mm thick	Electric cutters with diamond & abrasive disc.	Head re-used. Preps machined 15° bottom 45° top
BP Coryton Refinery England, UK	February 2005	Diameter: 9.4 m. Wall Thickness: 26mm. Material: C.S.	Type PM8 Milling M/c.	100mm thick	Air powered cutters with diamond & abrasive discs.	Head re-used. Angle prep machined top & bottom. Original rails re-used as basis for new type tracks.
TOTAL Lindsey Oil Refinery England, UK (Mitsui Babcock)	September 2005	Diameter: 8.3 m. Wall Thickness: 20mm. Material: C.S.	Type PM8 Milling M/c.	100mm thick	Electric powered cutters with diamond & abrasive discs.	Head replaced with new one. Angle prep (15°). Machined to bottom side only.
ESSO Fawley Refinery England, UK	October 2006	Diameter: 17 m. Wall Thickness: 22mm. Material: C.S.	Type PM8 Milling M/c.	125mm thick	Electric & Air powered cutters with diamond & abrasive discs.	Head replaced with new one. Angle prep (10°). Machined to bottom side only.
STATOIL Mongstad Refinery Norway (Ledwood)	September 2008	Diameter: 11.65 m. Wall Thickness 25mm Material: C.S.	Type PM8 Milling M/c.	100mm thick	Electric & Air powered cutters with diamond & abrasive discs.	Head replaced with new one. Angle prep (10°) Machined to bottom side only.
ESSO Italiana Augusta Refinery Sicily	March 2009	Diameter: 6.93 m. Wall Thickness: 11mm. Material: C.S.	Type PM8 Milling M/c.	102mm thick	Electric & Air powered cutters with diamond & abrasive discs.	Head re-used. Angle prep machined top & bottom. Original rails re-used as basis for new type tracks.
PETROPLUS Coryton Refinery England, UK (Vessels & columns only)	October 2009	Diameter: 1 m - 4 m. Wall Thickness: 20mm - 43mm. Material: C.S.	Type PM8 & Ring Milling M/c.	25mm Hexmesh 100mm Resco	Electric powered cutters with diamond & abrasive discs.	Variety of straight cut only and single angle weld preps machined as required.
EXXON MOBIL Rotterdam, Holland (ERMO GmbH)	January 2010	Diameter: 11.5 m. Wall Thickness: 22mm. Material: C.S.	Type PM8 Milling M/c.	127mm thick	Electric & Air powered cutters with diamond & abrasive discs.	Reactor vessel head reused. Preps machined 15° bottom 45° top.

NOTE: In most cases the overhead lines were also cut by **Destec Engineering Ltd**
Material: C.S - Carbon Steel
PM6/7/8 - Portable Milling Machines

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