

ENGINEER TO ORDER

SPECIAL PROJECT INFORMATION SHEET



Project Description	Offset gearbox for steel blast furnace maintenance		
Date created	16 July 2013	Project Number	Q2567

INTRODUCTION & APPLICATION

Steel manufacturing plant requires blast furnace bolts tightened to 950 N.m torque, in a high temperature environment, and where tool access is restricted. There are 20 x M24 bolts on an 810mm PCD.



SOLUTION

Special 2-gear offset gearbox and torque reaction fitted to a Pneutorque PTM-72-1350. The gear casing nose only extends 38mm past the output gear axis and the main casing is only 50mm thick to suit the available access space. Special high melting point grease lubrication is utilised.



TECHNICAL SPECIFICATION / DATA HIGHLIGHTS

Offset distance: 68.6mm (input to output).

Drives: Input 1" square / Output 36mm A/F hexagon through output gear.

Output: Mechanical advantage 1:1 (nominal).

Torque reaction point: reacts on alternate bolt heads.

Torque reaction type: quick release / interchangeable – fits both sides of gearbox for tighten / untighten.