**COG CHRISTIE OFFSET GEARBOXES** 

**Christie Offset Gearboxes** 

## Why use a Christie Offset Gearbox?

Christie Offset Gearboxes are designed for the tightening and un-tightening of fasteners with overhead obstructions, or nuts with protruding threads.

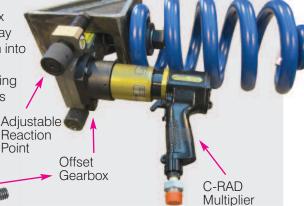
## **Problem 1**

Obstruction above nut - unable to fit a tool directly onto Nut

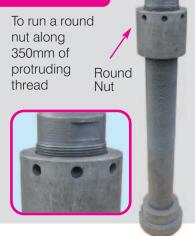
## **Solution 1**

The 4 stage gearbox projects the tool away from the obstruction into an area with more clearance, overcoming the overhead access problem





## **Problem 2**



**Solution 2** 

Air Nut

Runner Offset Gearbox Offset gearbox with 2 stage gear system overcomes thread protrusion and is able to grip the round nut

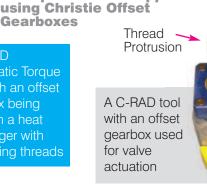


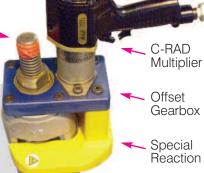




A C-RAD Pneumatic Torque Tool with an offset used on a heat exchanger with protruding threads

Gearboxes







**Examples of other applications**