Torqueleader

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IFR CAMS FOR TORQUE LIMITING SCREWDRIVERS

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OVERVIEW

The patented design of Torqueleader Torque Limiting Screwdrivers enables pre-set torque values to be applied in both Left-hand and Right-hand directions. The screwdrivers are thus described as *"bi-directional"*.

As an option it is already possible to order "Single Direction" tools - which allows the screwdriver to apply the pre-set torque value in one direction of operation whilst *"locking"* in the reverse direction for undoing purposes.

The design action of these normal cammed screwdrivers is such that when the tool reaches its pre-set torque value the mechanism disengages from the drive thus limiting the torque applied. Further rotation of the screwdriver handle resets the mechanism ready for the next torqueing operation. During resetting the Operator may feel a small reaction, which, on certain applications, could be undesirable.

The introduction of torque screwdrivers fitted with IFR Cams eliminates this small reaction rendering the resetting of the mechanism impact free - hence IFR - *"Impact Free Resetting".*

GENERAL ARRANGEMENT

When specified, IFR Cams replace the cams normally fitted to Minor, Standard and TLS 1360 screwdrivers. Tools fitted with the IFR Cams are identified by a small groove around the outside diameter of the cam section of Minor handle and a small slot on the front face of Standard and TLS 1360 Cams

SCREWDRIVER OPERATION

When IFR Cams are fitted to torque screwdrivers the tools can only be used in one direction. (If used in the reverse direction a slow ratcheting action is felt). The direction of operation is normally torqueing right-hand - clockwise but opposite direction tools can be specified.

On reaching the pre-set torque value the tool mechanism disengages in the normal way, thus limiting torque applied, and further rotation of the handle resets the tool. However due to the cleverly designed "down-ramp" of the internal cam lobe the resetting operation is not apparent to the Operator or Work Assembly.

OPTIONS

Screwdrivers fitted with IFR Cams can also have the Single Direction Option specified.

AVAILABILITY

IFR Cams are not suitable for retrofitting to screwdrivers already supplied with bi-directional cams. Accordingly only complete screwdrivers fitted with IFR cams are available for order.

There is no current intention to offer IFR Cams fitted to TLS 0022 screwdrivers as the reset reaction of these tools is already minimal.

ORDERING DETAILS

Product	**Ordering Code**
Minor Male Blue - with IFR Cam	015115
Minor F/Hex Blue - with IFR Cam	015215
Minor Male Green - with IFR Cam	015135
Minor F/Hex Green - with IFR Cam	015235
Minor Male Red - with IFR Cam	015155
Minor F/Hex Red - with IFR Cam	015255
Minor Male Gold - with IFR Cam	015175
Minor F/Hex Gold - with IFR Cam	015275
Standard Male Blue - with IFR Cam	015515
Standard F/Hex Blue - with IFR Cam	015615
Standard Male Green - with IFR Cam	015535
Standard F/Hex Green - with IFR Cam	015635
Standard Male Red - with IFR Cam	015555
Standard F/Hex Red - with IFR Cam	015655
Standard Male Gold - with IFR Cam	015575
Standard F/Hex Gold - with IFR Cam	015675
TLS 1360 Male Black/Gold - with IFR Cam	015915
TLS 1360 F/Hex Black/Gold - with IFR Cam	015935
CRS 100 - 0135 F/Hex - with IFR Cam	015219
CRS 100 - 0406 F/Hex - with IFR Cam	015619

ORDERING
The normal description of the screwdriver should be used followed by “fitted with IFR Cam”. If Left-hand (anti-clockwise) torqueing is required this should also be stated.

Screwdrivers fitted with IFR Cams are made to order, normal despatch delay is 4 weeks but this should be confirmed with the Sales Office when ordering.

If you require further information on the above products please contact our sales department on 01483 892772 or email salesandrepairs@torqueleader.co.uk