AFTER SALES SERVICE

Yourcustomersdonotalwayshaveidealconditionsinwhichto perform field maintenance of your products. Norbar is able to supplysuitableproductsforfielddisassemblyandreassemblyof threaded fasteners on your equipment:

SERVICE TOOLS

We can offer a wide range of Norbar branded or OEM branded tools in single piece or kit form. Ask us for details and help your equipment run longer and better after it leaves your facility.

"SPECIAL" ENGINEER TO ORDER PRODUCT SERVICE

Your designers are always finding ways to challenge manufacturing with smaller, lighter, more highly stressed components. If we have not got the right solution in our range, our Engineer To Order team will work with you and your distributor to specify, design and produce it in a cost effective manner.



GLOBAL SERVICE

Norbar is the only torque equipment manufacturer able to offer tool and instrument recalibration services to the original factory standard on four continents. The accredited laboratories in Australia, USA and Singapore use the same equipment and procedures as the factory's UKAS accredited laboratory in the UK. A further Norbar laboratory is in operation in Shanghai.



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NORBAR PRODUCT PORTFOLIO



Torque Wrenches

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Hand Torque Multipliers



Pneumatic Torque Multipliers



Torque Measurement





Torque Transducers



Ultrasonic Bolt Measurement



Calibration Services

Distributed by



PRECISION TOOLS FOR MANUFACTURING & ASSEMBLY

PRECISION TOOLS FOR MANUFACTURING & ASSEMBLY

NORBAR IN MANUFACTURING

Norbarequipmentisused by world class manufacturers around the globe. All of themseereliability and accuracy ascritical to their success. Our aim is to give you peace of mind that your bolted connections have been completed to your requirements.

Our torque wrenches have been developed with the input of customers' engineers, technicians and operators. This has created a product range that is ideal for many standard assembly line applications. Where your needs are more specialised we can work with you to design tooling to give consistent results in your application.

With a range of torque application tools from 1 to 300,000 N.m we have the widest range of torque tools in the world. The entire range is supported by our electronic torque measurement programme and all transducers up to 100,000 N.m can be provided with UKAS certification to ISO17025 to give you the level of traceability that every modern business will require.

Norbar distributors around the world are chosen for their ability to give you local support when you need it. Within our family of distributors we share applications and can often recommend solutions that have been tried and tested elsewhere.

Professional 'P' Type Torque Wrench



Pneutorque[®] PTM-72

ASSEMBLY LINE PRODUCTS

Your production facilities are constantly striving to improve performancewhetherincostreduction,traceabilityorconsistency. Norbarcanhelpwithyourcontinuousimprovementprojects in a number of ways:

ASSEMBLY TOOLS

We can offer a wide range of 'P'Type manual torque wrenches without scale for Production use. Thesewrencheshaveclearsoundandfeelwhentheyreachtorque.Alongwithgoodtechniquethis ensures the operator applies the correct torque. We can provide training courses for operators on the safe and accurate use of torque wrenches.

ForlargerfastenersthePneutorque^{*}rangeofpneumatictorquecontrolledtoolsprovidesaversatile solution to meet your torque, or torque & angle needs. Whether controlled by air pressure or transducer shutoff systems with data logging, we have a solution for you.

TOOL CHECKING, CALIBRATION AND MAINTENANCE

Many customers already have torque wrench testers for setting and verifying manual torque wrenches. Some of these systems are mechanical and not capable of the accuracy required today. Other, earlier electronic systems often have drift issues that cast doubt on the real torque values. Norbar is renowned for its cost effective torque tool testing systems. T-Box[™] is the latest Norbar measuring instrument, with it's TDMS software, designed to store trend data and assist you in setting appropriate recalibration or maintenance intervals.

HOW TIGHT IS TIGHT?

We can often offer solutions through your local distributor to assist your Process Capability studies. A combination of our torque measurement equipment and the distributors' knowledge can help improve your processes.

One of the key analysis tools is the USM-3 Ultrasonic Measurement Instrument. Thisdevicemeasures the change in length of the bolt due to the tight ening process and allows for detailed analysis of the torque versus tension relationship.

> USM-3 Ultrasonic Measurement Instrument

Take Pride – Torque Norbar





T-Box[™] torque and angle measuring instrument

CHANGEOVER AND MAINTENANCE

It is not just on the line that Norbar can help you. Your desire to reduce set-up or change over times can often be helped by our tools, as can your goal of reduced maintenance down-times:

SET-UP AND CHANGEOVER

Many fixtures are screwed in place. The use of torque wrenches to achieve the correct degree of fixture for sub-table clamping will give consistent results without guesswork or trial and error. Many customers also use torque wrenches or screwdrivers to clamp components into fixtures during processing or to prevent carbide cutting tool inserts from being overstressed.

MAINTENANCE

Tokeepmajoritemsofplantsuchaspowerpresses intopconditionitisvital tocarry out preventive maintenance. This often involves the loosening and tightening of large or awkward fasteners. Norbar specialise in small powerful torque multipliers that make short work of these difficult fasteners. With a Norbar Handtorque™ in your maintenance toolk it and the support of your local distributor for the design of specialised torque reaction arms, you can tackle those difficult jobs in less time and with more confidence.

Professional Torque Wrench with ring end fitting

Pneutorque^{*} PTM-52-IC featuresatorquetransducer andinternalsolenoidvalve to shut off the tool at the desired torque



Torque Screwdriver Tester (TST)