

Flange and valve machining technology

THE TU Series of machines offer a number of technological solutions and feature standard and custom-built, portable equipment. The machines are equally well utilised at the job site or in the fabrication shop. All machines in this series are high performance and are engineered for safety. They offer solutions for the repair and maintenance of valves and flanges, but additionally are designed for the repair and maintenance of virtually any component: grooves, safety valves, sealing surfaces, hole surfaces, high pressure valves, bolt extraction, flat or conical seats, manholes, diesel engine repair, flanges and RTJ grooves.

The TU machines have been used in many diverse industries: power plants (nuclear, thermal and hydraulic), refineries, petrochemical, chemical pharmaceutical, food and beverage, shipbuilding and manufacturing.

The TU-200 machine, for example, is small and lightweight to provide easy access in confined areas. Additionally,

this series offers portable boring and surfacing machines, as well as portable equipment for conical machining, grinding machines and grooving benches. All the TU Series machines are cost effective and reflect over 40 years of Protem's experience and worldwide technical expertise.

The machines all work on the same principle. They are set up and clamped by a columns/arm system, which is connected to the machining area. An optional chain clamping system, FC, secures the TU machine to allow complete machining of sealing faces and studs.

Conical machining operations can be performed with the optional AC38 or the RTJ device where the radial and axial feeds are interconnected. Optional UR40/UR45 grinding units are also available to ensure a perfect surface finish. With a precision of 1/100mm and a surface



The TU600 on site

finish up to Ra 1.6 depending upon the material to be machined, the TU machine assures high quality and precision for surfacing and boring operations.

The machine is designed to be set up easily even in the most severe working conditions. Since the column height and the concentricity adjustment are independent of each other, it takes only two steps to accurately set up and adjust the machine for it to be ready to operate.

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