

WORKSHOP CAPACITIES

MAXIMUM CAPACITY

TURNING	4,100mm dia. x 10,000mm long / 1,870mm dia. x 35,000mm long
GRINDING	Cylindrical Roll Grinding to 1,000mm dia. x 10,000mm long
HORIZONTAL BORING	22,000mm x 5,000mm x 2,000mm
VERTICAL BORING	15,000mm diameter
HIGH VOLUME PRODUCTION MACHINERY	5-axis CNC Machining Centres up to 22,000mm x 5,000mm
GEAR GRINDING	
Climate controlled environment	Accuracy to DIN 2 (AGMA 15)
CNC Gear Form Grinders	Internal and external gears to 2,400mm dia. x 1,500mm face width
GEAR CUTTING	
Climate controlled environment:	Accuracy to DIN 5 (AGMA 12)
External Gears:	15,000mm dia. x 2,500mm face width (3 units; 15m, 14m, 11m dia.)
Internal Gears:	15,000mm OD x 500mm face width
Worms & worm gears:	4,000mm dia. x 30 module
Bevel gears (Spiral/Slew/Straight):	4,000mm dia. x 310mm face width (DIN 3)
Sprockets:	15,000mm dia.
Crown Gear Couplings:	2,000mm dia. x 1,000mm face width
Double helical gears:	14,000mm dia. x 2,500mm face width
INSPECTION	
Climate controlled environment	Full gear inspection. Measuring Accuracy MPEp (ISO 10360-2) = 2.0µm. Envelope dimensions: 3,000mm x 1,500mm x 1,000mm plus 16t rotary table Portable CMM's with Gear Inspection software Laser Scanners
DESIGN & ENGINEERING SERVICES	CAD, CAM and FEA including SolidWorks and Kisoft Gear Design Software
HEAT TREATMENT	Full metallurgical laboratory for failure analysis
Atmosphere controlled:	Gas carburising: - Pit furnaces and fluidised bed. 1,900mm dia. x 5,000mm Induction hardening: - Tooth by tooth induction hardening machine. Gears, pinions, track pads. Full contour profile up to 15,000mm dia. Quench and tempering: - Oil tank 30,000L 1,900mm x 5,000mm long - Water/polymer quench Nitriding: - Carbo nitriding Furnace 900mm dia. x 1,800mm - Nitro carburising Furnace 900mm dia. x 1,800mm Tool Steels: - Fluidised bed 1200°C Furnace 900mm dia. x 1,800mm Tempering Furnace 6,000mm dia. x 3,000mm Stress relieving - Gas Furnace 15,000mm x 15,000mm wide Stress relieving - Electric Furnace 12,000mm dia. x 2,000mm Marquench Shot-peening Sandblasting
FABRICATION/WELDING	Fabricated gears, transmission boxes and mining equipment - 200 tonnes. Plate Rolls 6,000t, 3,650mm width x 220mm thick 4,000t, 3,200mm width x 150mm thick
PRODUCT SUPPORT AND FIELD SERVICE	
LUBRICATION AND CONDITION MONITORING	
QUALITY ASSURANCE	Certified to ISO9001 and AS9100 by Lloyds
LIFTING & HANDLING	Overhead Gantry Cranes to 200 tonnes Yard Cranes & Straddle Carrier Forklifts

The above capacities are indicative only, please contact us with your specific requirements.
Information supplied is subject to change without notice.