

WORKSHOP CAPACITIES

<u>TURNING</u>	4,100mm dia x 10,000mm lg	
<u>GRINDING</u>	Cylindrical	1,000mm dia x 10,000mm lg
<u>BORING - HORIZONTAL / VERTICAL</u>	Single work pieces	200 tonne.
<u>HIGH VOLUME PRODUCTION MACHINERY</u>	Computer Numerical Control Turning and Machining.	
<u>GEAR CUTTING</u>		
Climate controlled environment.	Accuracy to DIN 5 (AGMA 12)	
Gears external	15,000mm dia x 2,500mm face width	
Gears internal	15,000mm OD x 500mm face width	
Worms & worm gears	4,000mm dia x 30 module	
Bevel gears	2,350mm dia x 310mm face width	
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	
Maag CNC 3 off	SH 500 with internal hard cutting	5000mm dia x 900mm face
<u>GEAR GRINDING</u>		
Climate controlled environment	Accuracy to DIN 2 (AGMA 15)	
Hofler CNC form grinder (internal & external)	2000mm dia x 1500mm face width	
Niles method - Generating grinders	3500mm dia x 1600mm face width	
<u>GEAR INSPECTION</u>		
Climate controlled environment	Klingelnberg PSFU	2,500mm dia x 1,000 face width
	3D Co-ordinate measuring machine with gear lead involute and pitch software	14,000mm dia x 1,000mm face width
	Portable CMM with Gear Inspection	
<u>FINE INSPECTION</u>		
Climate controlled environment.	Co-Ordinate Measuring Machine.	
	Envelope dimensions	2,200mm x 1,200mm x 800mm
	CAD, CAM & FEA applications.	
	Full metalurgical laboratory for failure analysis	
	<u>Gas carburising:</u>	
	- Pit furnaces and fluidised bed.	1900mm dia x 5000 long.
	<u>Induction hardening:</u>	
	- Tooth by tooth induction hardening	5 off machines
	Gears, pinions, track pads.	Full contour profile up to 15000mm
	<u>Quench and tempering:</u>	
	- Oil tank 30,000L	1900mm x 5000mm long
	- Water/polymer quench	
	<u>Nitriding:</u>	
	- Carbo nitriding	Furnace 900mm dia x 1800mm
	- Nitro carburising	Furnace 900mm dia x 1800mm
	<u>Tool Steels:</u>	
	- Fluidised bed 1200°C	Furnace 900mm dia x 1800mm
	<u>Tempering</u>	Furnace 6000mm dia x 3000mm
	<u>Stress relieving</u>	Furnace 6000mm dia x 3000mm
	<u>Marquench</u>	
	<u>Shot peening</u>	
	<u>Sand blasting</u>	
<u>FABRICATION / WELDING</u>	Fabricated gears, transmission boxes and mining equipment - 200 tonnes.	
	Plate rolls	5000 T, 3650mm width x 220mm
<u>PRODUCT SUPPORT AND FIELD SERVICE</u>		
<u>LUBRICATION AND CONDITION MONITORING</u>		
<u>QUALITY ASSURANCE</u>	Accredited to ISO9001 by Bureau Veritas	
<u>LIFTING and HANDLING</u>	23 Overhead Gantry Cranes to 200 tonnes	
	2 Yard Cranes	
	5 Forklifts	
<u>FACTORY SPACE</u>	Over 26,624m ² (approx. 6.6 acres) under roof	
The above capacities are indicative only, please contact us with your specific requirements.		

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