



5-axis Machining Centres										
Machine Type	Quantity of Machines	Control	Table (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Haas UMC-750 5S	1	Haas	630 x 500	762	508	508	15000	40	Yes	High Speed Contouring
Haas UMC-750	1	Haas	630 x 500	762	508	508	12000	40	Yes	-
Matsuura MX-850	3	Matsuura G-Tech 31i	630mm Diameter	900	780	650	12000	90	Yes	Full 5th Axis Simultaneous Machining, 4 Pallet System
Multi Axis Mill-Turn Machine Centres										
Machine Type	Quantity of Machines	Control	Max. Turning Diameter (mm)	Max. Turning Length (mm)	X-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Doosan MX3100	1	Fanuc 31i	670	1500	600	1500	3000 + 12000	40	Yes	C-axis, Steady (20-165) Live Centre
Doosan SMX3100	4	Fanuc 31i	670	1500	650	1500	3000 + 12000	41	Yes	C-axis, Steady (40-310) Live Centre
Twin Spindle Multi Axis Machine Centres										
Machine Type	Quantity of Machines	Control	Max. Turning Diameter (mm)	Max. Turning Length (mm)	X-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Doosan Puma 2100SY	1	Fanuc 32i	376	520	260	590	5000	24	Yes	Sub Spindle, Live Tooling
Doosan SMX2600	2	Fanuc 31i	500	1000	550	1250	3000 + 12000	41	Yes	Sub Spindle, Live Tooling
Multi Pallet Horizontal Machine Centres										
Machine Type	Quantity of Machines	Control	Pallet (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Doosan NP6300	1	Fanuc	630 x 630	950	825	800	12000	60	Yes	Twin Pallet System BT 50 Spindle
Hyundai KH63G	1	Fanuc	630 x 630	950	825	760	8000	60	Yes	Twin Pallet System, BT 50 Spindle
Vertical Machining Centres										
Machine Type	Quantity of Machines	Control	Table (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Haas VF4	2	Haas	1321 x 457	1270	508	635	7500	20	No	Renishaw Table Probe, 4th axis, High Torque Gearbox
Haas VF6	1	Haas	1626 x 711	1626	813	762	7500	40	Yes	4th axis, High Torque Gearbox
Haas VF9	1	Haas	2135 X 914	2134	1016	762	8100	24	Yes	4th axis, High Torque Gearbox
Haas VF9-40	1	Haas	2135 X 914	2134	1016	762	8000	40	Yes	Renishaw Table Probe, 4th axis, High Torque Gearbox
CNC Turning										
Machine Type	Quantity of Machines	Control	Max. Turning Diameter (mm)	Max. Turning Length (mm)	X-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
VTL Webster Bennett CNC	1	Fanuc Oi-TC	1550				250	5	No	Fully Retro-Fitted 2020
Takisawa EX-108	2	Fanuc 21iT	320	530	180	530	4000	12	Yes	Tailstock
Takisawa EX-110	1	Fanuc 21iT	400	710	220	710	3500	10	Yes	Tailstock
Takisawa EX-310	1	Fanuc 21iT	350	710	198	700	4000	12	Yes	Live Tooling
Haas ST-30	1	Haas	530	660	318	660	3000	12	Yes	Tailstock
Takisawa EX-122	1	Fanuc 31i	636	1650	700	1650	1200	10	No	180mm Dia Through Chuck
Haas ST25 Lathe	1	Haas	254	572	300	580	4500	10	Yes	Tool Probing, Automatic Tailstock
CMZ TD30Y 800	1	Fanuc 31i	550	898	600	898	4500	10	Yes	Y Axis, Live Tooling
XYZ Proturn	1	XYZ	360	1000	400	1000	4000	4	No	Semi Manual Intuitive Lathe



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Manual Milling									
Machine Type	Quantity of Machines	Control	Table (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Quill/Ram	Other Facilities
KRV EMX-2000	1	Proto-Trak 2 axis	1270 x 254	750	380	400	4200	127/450	2 Axis CNC Capability
KRV 2000	1	-	1270 x 254	750	380	400	4200	127/450	Digital Readout, Slotting Head, Tilting Head F/B +/-45 deg, L/R +/-90 deg

Manual Turning										
Machine Type	Quantity of Machines	Control	Max. Turning Diameter (mm)	Max. Turning Length (mm)	X-axis Travel (mm)	Z-axis Travel (mm)	Max. Spindle Speed (RPM)	Number of Tool Stations	Probe	Other Facilities
Colchester Triumph 2000	1	-	450	2000	230	2000	2000	1	-	Fully refurbished, 2021

EDM Machining										
Machine Type	Quantity of Machines	Control	Max Workpiece (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Other Facilities			
GF+ Cut-P550	2	AC CUT HMI 2	1000 x 700x 400	550	350	400	N/A	N/A	Yes	Taper Expert option. +/- 30 degrees
Unitek Spark Eroder	1	-	700 x 400 x 450	360	300	500	Orbiting Head			
Anatronic 500A (ECD)	1	-	600 x 400 x 400	-	-	-	Internal Deburring Machine			
Anatronic 150A (ECD)	1	-	600 x 400 x 650	-	-	-	Internal Deburring Machine			

3D Printer	
Equipment Type	Description
Fortus 450MC 3D Printer	406mm x 355mm x 406mm

CNC Pipe Bender										
Machine Type	Quantity of Machines	Software	Max Pipe O.D mm	Max Pipe Length	Max Bending Radius mm	Max Bending Radius/Square Tube	Max. Bending Angle Degree	Max. Pressure kgf/cm	Probe	Other Facilities
CNC50TSR Pipe Bender	1	Dynamic Simulation supports IGES/STEP	50.8	2200	30-220	30-190	30-190	kgf/cm	Yes	Full CNC Supports IGES/STEP Files



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## CMM (Co-ordinate Measuring Machine)

Machine Type	Quantity of Machines	Software	Max Workpiece (mm)	X-axis Travel (mm)	Y-axis Travel (mm)	Z-axis Travel (mm)	Other Facilities
DEA Global	1	PC-DMIS	680 x 680 x 600	700	700	660	Fully CNC Capable, Server & IPI Software link
GLOBAL S CNC CMM	1	PC-DMIS	1200 x 2200 1000	1200	2200	1000	Fully CNC Capable, Server & IPI Software link
MicroExcel Pfx	1	PC-DMIS	630 x 980 x 390	650	1000	450	Fully CNC Capable, Server & IPI Software link
Kemco CMM	1	-	380 x 330 x 230	400	350	250	-
Merlin 750	1	-	780 x 530 x 430	800	550	450	-
Global Evo CMM	1	PC-DMIS	900 x 2000 x 1000	900	2000	800	Full 3d scanning head, IPI Software Link

## Inspection Equipment

Equipment Type	Description
Hommel Opticline C514i Non Contact Measuring Machine	Capable of Scanning Parts up to $\varnothing$ 140mm x 500mm in Length
Hommel Opticline C914 Measuring Machine	140mm x 900mm
Smartscope MVP 300 Optical Gaging System	Capable of Scanning and Probing Parts up to 300mm x 300mm x 150mm
Multiple Borescopes	-
IPI Visual FAIR Software	-

## Pressure Testing Equipment

Equipment Type	Description
Pressure Test and Flushing Rig	Range of 0 - 25,000 PSI, Complete with a Pressure Chart Recorder and Pamas Particle Counter (Cleanliness Testing/Certified to NAS 1638)

## Clean Room (Grade A,B & C)

Certification	Description
Rolls Royce SABRe Approved	Certified Grade A Cleaning Facility, Ultrasonic Cleaning Tanks, Ferritic Examination

## Clean & Pack

Equipment Type	Description
Audion Packaging Machine Speedpack V2	Capacity bags up to 40cm wide Any Length
Mecwash MWX 400	Drum Size 400mm wide x 450mm high x 700mm deep Rinse 650 Litre Wash 650 Litre
Allendale Ultrasonic Cleaning Tanks Model US-CU-BU-3	3 Litre Capacity
Allendale Ultrasonic Cleaning Tanks Model US-CU-BU-9	9 Litre Capacity
Audionvac VMS 133	Vacuum Sealer
Audionvac VMS 53	Vacuum Sealer
Pressure Test and Flushing Rig	Range of 0 - 25,000 PSI, Complete with a Pressure Chart Recorder and Pamas Particle Counter (Cleanliness Testing/Certified to NAS 1638)

## Welding

Equipment Type	Description	Capacity	Other Facilities
PURGEYE NANO 300	MONITORING O <sup>2</sup> LEVEL WITHIN WELDS	≥999 - 10 PPM O <sup>2</sup>	
PURGEYE NANO 300	MONITORING O <sup>2</sup> LEVEL WITHIN WELDS	≥999 - 10 PPM O <sup>2</sup>	
PURGEYE NANO 300	MONITORING O <sup>2</sup> LEVEL WITHIN WELDS	≥999 - 10 PPM O <sup>2</sup>	
KEMPPER PROFIMASTER	FUME & PARTICLE EXTRACTION UNIT	MAX AIRFLOW 1100M <sup>3</sup> /H	
KEMPPER PROFIMASTER	FUME & PARTICLE EXTRACTION UNIT	MAX AIRFLOW 1100M <sup>3</sup> /H	
KEMPPER PROFIMASTER	FUME & PARTICLE EXTRACTION UNIT	MAX AIRFLOW 1100M <sup>3</sup> /H	
FRONIUS TPS 400i	MIG/MAG & FCAW WELDING CS & SS	10 - 400 AMPS DC	
FRONIUS TPS 400i	MIG/MAG & FCAW WELDING CS & SS	10 - 400 AMPS DC	
FRONIUS TPS 400i	MIG/MAG & FCAW WELDING CS & SS	10 - 400 AMPS DC	
TECARC TT600	MANIPULATION OF WORKPIECE @ VARIABLE SPEEDS	1KG - 60KG	
TECARC TT600	MANIPULATION OF WORKPIECE @ VARIABLE SPEEDS	1KG - 60KG	
TECARC TT600	MANIPULATION OF WORKPIECE @ VARIABLE SPEEDS	1KG - 60KG	
KOWOLUX X3 ECO	LED X-RAY FILM VIEWER	80 X 450MM FILMS MAX	
FRONIUS MAGICWAVE 4000	TIG WELDING OF ALL METALS	10 - 400 AMPS AC/DC	
FRONIUS MAGICWAVE 4000	TIG WELDING OF ALL METALS	11 - 400 AMPS AC/DC	
FRONIUS MAGICWAVE 4000	TIG WELDING OF ALL METALS	10 - 400 AMPS AC/DC	
LINCOLN 300TPX	TIG WELDING OF CS & SS	10 - 300 AMPS	