

| <u>MILLING</u> | EQUIPMENT | DESCRIPTION | X AXIS (MM) | Y AXIS (MM) | Z AXIS (MM) | NOTES |
|-------------------------------------|------------|------------------|-------------|-------------|-------------|--|
| Horizontal Machining Centre | Okuma | Okuma MA-500-HII | 700 | 900 | 780 | 60 Tool Stations Table size 500 x 500 |
| Vertical Machining Centre 5 Axis | Mikron | Mikron 800 | 800 | 800 | 550 | Table size Ø500 |
| Vertical Machining Centre 5 Axis | Mikron | Mikron 710 | 710 | 500 | 500 | Table size 1200 x 600 |
| Vertical Machining Centre 3 Axis | DMG | DMC 103 V | 1000 | 600 | 600 | Table size 1200 x 600 |
| Manual Mill | XYZ | XYZ 1500 | 660 | 305 | 406 | Table size 1069 x 228 |
| Manual Mill | Bridgeport | - | 550 | 250 | 280 | |

| <u>TURNING &</u> | EQUIPMENT | DESCRIPTION | MIN DIA (MM) | MAX DIA (MM) | MAX LENGTH (MM) | NOTES |
|---------------------------|------------|----------------------------|--------------|--------------|-----------------|-----------|
| 2 axis CNC Turning Centre | Doosan | 2000SY | 20 | 330 | 580 | Mill/Turn |
| Manual Turning Centre | Colchester | Colchester Student 1800 | 2 | 240 | 500 | |

| <u>EDM</u> | EQUIPMENT | DESCRIPTION | X AXIS (MM) | Y AXIS (MM) | Z AXIS (MM) | NOTES |
|--------------|------------|-------------|-------------|-------------|-------------|--|
| Wire Eroder | Agie | Challenge | 350 | 250 | 256 | Max workpiece dimensions 750 x 550 x 250 |
| Spark Eroder | Agie | Mondo 30 | 360 | 310 | 260 | |
| Spark Eroder | Charmilles | Form 2LC | 300 | 200 | 200 | Table size 500 x 350 |

| <u>GRINDING</u> | EQUIPMENT | DESCRIPTION | MIN DIA (MM) | MAX DIA (MM) | MAX LENGTH (MM) | NOTES |
|-----------------|-----------|---------------------|--------------|--------------|-----------------|-------|
| Manual Grinder | Grinder | Jones & Shipman 540 | 400 | 150 | 180 | |
| Manual Grinder | Grinder | Jones & Shipman 540 | 400 | 150 | 180 | |

| <u>INSPECTION</u> | EQUIPMENT | DESCRIPTION | MAX X TRAVEL (MM) | MAX Y TRAVEL (MM) | MAX Z TRAVEL (MM) | NOTES |
|-------------------|-----------|------------------|-------------------|-------------------|-------------------|-------|
| CMM | Mitutoyo | Crysta Apex C574 | 505 | 705 | 405 | |

| <u>TURNING & MILL/TURN</u> | EQUIPMENT | DESCRIPTION | MIN DIA (MM) | MAX DIA (MM) | MAX LENGTH (MM) | NOTES |
|---|-----------|--------------------------|--------------|--------------|-----------------|------------------------------------|
| Twin Spindle 9 Axis CNC Mill/Turn Centre | Mazak | Integrex 400 ST | 10 | 254 | 1619 | 80 Tool Stations Mill/Turn |
| Twin Spindle, Twin Turret, 8 Axis CNC Centre | Mazak | Hyper Quadrax 200 MSY | 10 | 344 | 863 | Twin Spindle/Twin Turret Mill/Turn |
| 2 Axis CNC Turning Centre with C-Axis Milling | Okuma | Genos L300 | 10 | 300 | 450 | Mill/Turn |
| Twin Spindle CNC Lathe 4 Axis | Mazak | Super Quick Turn 200 MSY | 10 | 210 | 675 | Mill/Turn |
| CNC Lathe 4 Axis | Mazak | Nexus 200 MY | 10 | 250 | 541 | Mill/Turn |
| CNC Sliding Head Lathe | Citizen | A32 | 6 | 32 | 320 | |
| CNC Sliding Head Lathe | Citizen | L32 | 6 | 32 | 320 | |
| CNC Sliding Head Lathe | Citizen | L25 | 3 | 25 | 250 | |

| <u>HONING</u> | EQUIPMENT | DESCRIPTION | MIN DIA (MM) | MAX DIA (MM) | MAX LENGTH (MM) | NOTES |
|----------------------|-----------|-------------|--------------|--------------|-----------------|-------|
| Horizontal CNC Honer | Delepena | E2000S | 3 | 80 | 320 | |

| <u>MILLING</u> | EQUIPMENT | DESCRIPTION | X AXIS (MM) | Y AXIS (MM) | Z AXIS (MM) | NOTES |
|---|-----------|-------------|-------------|-------------|-------------|----------------------|
| Vertical Machining Centre | Kiwa 1 | Excel 510 | 501 | 406 | 457 | Table size 685 x 432 |
| Vertical Machining Centre 3 Axis plus 1 C Axis | Kiwa 2 | Excel 510 | 501 | 406 | 457 | Table size 685 x 432 |
| Vertical Machining Centre 3 Axis plus 1 C Axis | Enshu | VMC 40 | 560 | 400 | 650 | Table size 900 x 400 |

| <u>THREAD ROLLING</u> | EQUIPMENT | DESCRIPTION | MIN DIA (MM) | MAX DIA (MM) | MAX LENGTH (MM) | NOTES |
|-----------------------|-----------|-------------------|--------------|--------------|-----------------|-------|
| Thread Roller | Steinle | S10 Thread Roller | 2 | 10 | 65 | |

| <u>INSPECTION</u> | EQUIPMENT | DESCRIPTION | MAX X TRAVEL (MM) | MAX Y TRAVEL (MM) | MAX Z TRAVEL (MM) | NOTES |
|-------------------|-----------|--------------------|-------------------|-------------------|-------------------|-------|
| CMM | Mitutoyo | Crysta Apex-S 7106 | 705 | 1005 | 605 | |