

### Parallel lathes · 6

Turning, facing, boring, drilling, bar turning, threading, conventional machining.

| Make       | Centre height | Between centres | Power  |
|------------|---------------|-----------------|--------|
| AVM        | 125 mm        | 500 mm          | 2 kW   |
| COLCHESTER | 165 mm        | 1000 mm         | 2.5 kW |
| COLCHESTER | 165 mm        | 750 mm          | 5 kW   |
| COLCHESTER | 165 mm        | 1050 mm         | 5 kW   |
| KERN       | 215 mm        | 1500 mm         | 7.5 kW |
| GEMINI     | 340 mm        | 2000 mm         | 15 kW  |

### CNC lathes · 3

Turning, facing, boring, drilling, bar turning, threading, automatic CNC machining.

| Make                   | X stroke | Z stroke | Power       |
|------------------------|----------|----------|-------------|
| Mori Seiki             | 195 mm   | 1000 mm  | 7.5 / 11 kW |
| Mazak Quick Turn 35N   | 275 mm   | 1500 mm  | 22 / 30 kW  |
| Colchester Tornado 110 | 100 mm   | 350 mm   | 7.5 kW      |

### Knee-type milling machines · 4

Vertical and horizontal milling, surfacing, drilling, boring, tapping, contouring, profiling, thread milling.

| Make   | X stroke | Y stroke | Z stroke | Power   |
|--------|----------|----------|----------|---------|
| AUER   | 200 mm   | 150 mm   | 150 mm   | 1.51 kW |
| SIXIS  | 450 mm   | 170 mm   | 400 mm   | 2 kW    |
| KONDIA | 630 mm   | 380 mm   | 480 mm   | 3 kW    |
| TOSS   | 900 mm   | 300 mm   | 550 mm   | 6 kW    |

### CNC milling machines · 2

Vertical and horizontal milling, surfacing, drilling, boring, tapping, contouring, profiling, thread milling, 3D and helical CNC machining.

| Make       | X stroke | Y stroke | Z stroke | Power |
|------------|----------|----------|----------|-------|
| FEHLMANN   | 450 mm   | 350 mm   | 470 mm   | 3 kW  |
| REIDEN BF3 | 1250 mm  | 800 mm   | 750 mm   | 15 kW |

Machining centres · 2

Vertical milling, surfacing, drilling, boring, tapping, contouring, profiling, thread milling, 3D and helical CNC machining.

| Make             | X stroke | Y stroke | Z stroke | Power        |
|------------------|----------|----------|----------|--------------|
| MORI SEIKI MV40B | 800 mm   | 410 mm   | 550 mm   | 5.5 / 7.5 kW |
| HAAS VF 6        | 1626 mm  | 813 mm   | 762 mm   | 15 kW        |

Jig borer · 1

Centering, drilling, high-precision boring, tapping, chamfering, light milling and surfacing.

| Make | X stroke | Y stroke | Z stroke | Power |
|------|----------|----------|----------|-------|
| SIP  | 950 mm   | 750 mm   | 650 mm   | 5 kW  |

Grinding machines · 3

Surface grinding, external and internal cylindrical grinding, conventional and semi-automatic machining.

Surface grinder

| Make                 | X stroke | Y stroke | Z stroke | Power  |
|----------------------|----------|----------|----------|--------|
| JACOBSEN automatique | 700 mm   | 400 mm   | 350 mm   | 7.5 kW |

External and internal cylindrical grinder

| Make         | Between centres | Z stroke | Max. diameter | Power |
|--------------|-----------------|----------|---------------|-------|
| FORTUNA 1000 | 1180 mm         | 1000 mm  | 360 mm        | 8 kW  |

Universal tool grinder

| Make      | Between centres | Z stroke | Max. diameter | Power |
|-----------|-----------------|----------|---------------|-------|
| HABIB S6Y | 600 mm          | 500 mm   | 250 mm        | 2 kW  |

Slotting machine · 1

Slotting, keyways, multiple profiled splines and special external, internal and conical profiles, conventional machining.

| Make  | Cutting length | X stroke | Y stroke | Z stroke |
|-------|----------------|----------|----------|----------|
| THULE | 150 mm         | 400 mm   | 300 mm   | 300 mm   |

Drilling machines · 2

| Make      | Equipment                            | Power |
|-----------|--------------------------------------|-------|
| ALZMETALL | Morse taper 4, Ø 600 mm rotary table | 3 kW  |
| METZNER   | Morse taper 2, bench drill           | 1 kW  |

Miscellaneous equipment

Electric TIG 250 A and gas welding · Brazing, tinning · Hacksaw and circular sawing · 30 t workshop press · IFANGER tool grinder, belt grinder · Small portable machines: drills, grinders · Removal of broken tools by EDM · Small furnace for heat treatment of metals · Electrolytic polishing of stainless parts, 200 × 200 mm max.

## Inspection

**Measurement:** External, internal and depth micrometers with digital readout · TRIMOS digital height gauge, programmable, with printed measurement report · Surface plates, V-blocks, squares · 3D coordinate measuring machine · LASER engraving, 70 mm × 70 mm maximum

**Hardness:** Brinell, Rockwell, Vickers

**Roughness:** Digital roughness tester: Ra, Ru, Rz