



**PRECISION ENGINEERS DESIGN - DEVELOPMENT -
MANUFACTURE**

R.E. THOMPSON & CO (VACUUM) LTDEVINGAR ROAD WHITCHURCH HAMPSHIRE RG28 7EU

TEL: +44 (0) 1256 893325

FAX: +44 (0) 1256 893623

E-mail: sales@rethompson.co.uk

PLANT LIST

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SUB CONTRACT SERVICES

SUMMARY

- 1) **DESIGN:** Our services offer design and draughting packages which can be generated from the customer's technical proposal, using AutoCAD and the latest 3D modelling facility. We are able to take information on electronic transfer via E-mail, CD or Floppy Disk.
- 2) **PROJECT MANAGEMENT** is part of the practice Thompson's offer to the customer, backed up by professional engineering services, thereby affording the client a comprehensive package.
- 3) **TOOLING & PROGRAMMING** forms a part of Thompson's manufacturing service. Our programmers and tooling specialists are versed in machining, manufacturing and assembly techniques.
- 4) **MANUFACTURE** Thompson's Plant is a purpose-built factory with the latest machinery and a workforce of craftsmen who carry out the following:-
 - a) Tooling

- b) Mould Tools
- c) Turning – CNC & Centre Lathe Turning
- d) Milling – CNC (3-4 Axis)
- e) Mill/Turn – Multi Axis Turning Centre (5 Axis)
- f) Assembly
- g) Prototyping, with the emphasis on fast turnaround. Using electronic transfer, our technical staff work with minimum customer involvement.

RE Thompson's has the complete confidence of many major international customers, carrying out a 'Zero Defect' policy on their behalf. We understand delivery scheduling on large and extended projects for our customer convenience.

Having been in the business of manufacturing and machining for some 50 years, R E Thompson's understands that good service and quality are paramount – always working to achieve the best
MACHINING CENTRES

HORIZONTAL – TWIN PALLET

1 OFF MORI-SEIKI NH5000 40 DCG

BT40 Tooling 14,000 rpm 40 Tool Positions

Working Surface:	Twin Pallets: 500mm x 500mm	
Load per Pallet:	300 kg	
Traverse:	(x)	730mm
	(y)	730mm
	(z)	850mm

3 OFF MORI-SEIKI SH400 [1 off with full 4th AXIS]

BT40 Tooling 12,000 rpm 60 Tool Positions

Working Surface:	Twin Pallets: 400mm x 400mm	
Load per Pallet:	300 kg	
Traverse:	(x)	560mm
	(y)	510mm
	(z)	510mm

2 OFF HITACHI SEIKI HC500

with FANUC System 6MB and FANUC 11M Controls BT50 Tooling 3,500 rpm 60 Tool Positions

Working Surface: Twin Pallets: 500mm x 500mm Load per pallet: 700kg

Traverse: (x) 710mm

(y) 630mm

(z) 560mm

1 OFF HITACHI SEIKI HG 400III

with Fanuc System 15MB Control BT40 Tooling 12,000 rpm 120 Tool Positions

Working Surface: Twin Pallets: 400mm x 400mm Load per Pallet 400kg

Traverse: (x) 560mm

(y) 580mm

(z) 510mm

MULTI AXIS TURNING CENTRE

1 OFF MORI-SEIKI MT2002S

with Fanuc 16 iTA Mapps Control

CAPTO C6 Tooling 120 Tool Positions

Headstock 250mm Chuck 4200 RPM Max Tailstock 200mm Chuck
5000 RPM Max Tool Spindle ('B' Axis) 12000 RPM Max

Max Dia 850 mm Max Length 1148 mm

Axis Travel (x) 565mm with Optical Scale

(y) 160mm

(z) 1077mm

(b) +/- 120 Degrees with Optical Scale

(c) Full 360 Degrees

VERTICAL – TWIN PALLET

2 OFF HITACHI SEIKI VM-4011

with Seicos System MY-II Control

BT40 Tooling 8,000 rpm 30 Tool Positions
Working Surface: Twin Pallets 760mm x 410mm
Load Per Pallet 350kg
Traverse: (x) 560mm
 (y) 410mm
 (z) 410mm

1 OFF MATCHMAKER B10V (1000)
with Heidenhain TNC155 Control
BT45 Tooling 3,000 rpm

Working Surface: 1200mm x 500mm
Loading Capacity: 1000kg
Traverse: (x) 1000mm
 (y) 500mm
 (z) 500mm

2 OFF MATCHMAKER 800
with Posidata CNC Controls

ISO40 Tooling 3,500 rpm
Working Surface: 1300mm x 330mm
Loading Capacity 500kg
Traverse: (x) 815mm
 (y) 460mm
 (z) 140mm

1 OFF JONES & SHIPMAN POWERED ROTARY TABLE
Available for Matchmaker 800 machine

CNC LATHE

1 OFF MORI SEIKI MILL TURN SL-150MC
with Fanuc 18iAII Conversational Control

680mm Swing over bed 445mm Swing over cross slide 560mm Between centres 430mm
Max. turning diameter 170 mm Standard turning diameter 519mm Max. turning length
45mm Bar work capacity 001° C Axis indexing angle

Spindle Speed 5000 rpm 12 Rotary Tools available

CENTRE LATHES

1 OFF OKUMA LS
540mm Swing
1250mm Between Centres
Head Stock 50mm Ø Max

1 OFF HARDINGE Model HLV-HS
254mm Swing
457mm Between Centres

JIG BORING

1 OFF SOCIÉTÉ GENEVOISE SIP 3KT with
Heidenhain Control ND960 with Digital Readout
and Touch Probe Function

Working Surface: 648mm x 470mm Loading
Capacity: 363kg

Traverse (x) 450mm (y) 350mm (z) 620mm

MILL

1 OFF THIEL DUPLEX 158S – Universal Mill

Working Surface: 750mm x 280mm

OVEN **[Bonding]**

1 OFF **MIDO/6/CLAD/F/DT 20° - 250°C 660/700 x 470 x 510 Deep Page 7**

CUTTER GRINDING

1 OFF CLARKSON MKII

Plus various other items of equipment necessary in a modern machine shop, e.g:

1 OFF ENGRAVER (Taylor Hobson)

1 OFF VACUUM BEAD BLASTER

1 OFF 84 LTR TORNADO TUB MACHINE (For Finishing)

BENCH DRILLS, PEDESTAL DRILLS, TAPPERS, BENCH GRINDERS, etc

INSPECTION DEPARTMENT

1 OFF CMM MITUTOYO B241

Working Surface: 800mm x 1500mm

Traverse: (x) 700mm

(y) 1000mm

(z) 450mm

CMM COMPUTER, CONTROLLER, PROBES AND SOFTWARE

1. DELL OPTIPLEX G X A
2. MAG COUNTER
3. EASIPAK V6.01 and COSMOS 1.2R4
4. PROBE HEAD MH8 AND PROBE TP2

1 OFF CMM EURO C574 APEX CNC

Working Surface: 500mm x 700mm x 400mm

Traverse: (x) 500mm

.(y) 700mm

.(z) 400mm

CMM COMPUTER, CONTROLLER, PROBES AND SOFTWARE

1. DELL OPTIPLEX GX1
2. CMMC F APEX CONTROLLER
3. PROBE HEAD PH9 AND PROBE TP200
4. ACCESSORIES SCR200 PROBE CHANGER

1 OFF ELEY METROLOGY VERTEX 500mm x 800mm MKIII DIGITAL HEIGHT GAUGE

1 OFF MITUTOYO PJ303 OPTICAL COMPARATOR