



Manufacturing Capability

Fort Vale Engineering Ltd has over 40 years' experience and our highly qualified team has a wealth of expertise. From our new 72 acre state-of-the-art facility we can offer a wide range of manufacturing solutions including: **advanced design service with rapid prototyping; lost wax investment casting foundry; manual and CNC milling and turning; plasma cutting/profiling; manual, robotic and seam welding; CNC sawing; tool room; press shop; general fabrication and assembly; stainless steel shot blasting and electro-polishing.**

We predominantly manufacture in stainless steel and also have experience in working with titanium, aluminium, duplex, nickel alloys (Hastelloy®) and carbon steel.

In addition, Fort Vale has its own product range of valves and fittings for the bulk transportable liquids industry. The Fort Vale group of companies comprises six additional manufacturing entities, mostly in the engineering sector, with complementary skills including laser and water jet cutting, powder coating and CNC punch presses.

CNC Turning Centres

Model

Mori Seiki SL 65
Mori Seiki SL 400
Mori Seiki CL 200

Capacity Ø

Up to 820mm (32")
Up to 390mm (15")
Up to 150mm (6")

Mori Seiki CL 253B x2
Mori Seiki ZL 250
Mori Seiki CL 25

Up to 230mm (9")
Up to 230mm (9")
Up to 250mm (10")



Model

Mori Seiki NL2500
Mori Seiki SL 250
Mori Seiki SL 35
Mazak Quick Turn Nexus 250
Mazak Nexus 200 x3
Okuma LB15
Hitachi Seiki HT23

Capacity Ø

Up to 250mm (10")
Up to 230mm (9")
Up to 390mm (15")
Up to 250mm (10")
Up to 250mm (10")
Up to 150mm (6")
Up to 200mm (8")

Bar Feed

Okuma LCC15-2S
Okuma LU15
Lynx 220B
Citizen

Capacity Ø

Up to 38mm (1.5")
Up to 45mm (1.75")
Up to 50mm (2")
Up to 25mm (1")

CNC Machining Centres - Milling

Model

Mori Seiki SH630
Mori Seiki MH50
Okuma MA-50HB
Okuma MA500-HB

Capacity X Y Z 4th

840, 760, 840, 360
710, 600, 600, 360
800, 650, 750, 360
700, 900, 780, 360

Model

Okuma MA650 VB
Okuma MX 45 VAE
Mori Seiki M300

Capacity X Y Z

1500, 660, 600
762, 460, 450
400, 300, 496



Spline rolling/Thread rolling

Model

Ort RP 18B Thread Roller
Ort MS5 Spline Roller

Capacity

Up to Ø60 x 5mm pitch
Up to Ø45 x 115mm

Broaching

Model

Stenhøj & Cardinal

Capacity

Max.shaft Ø25 x 40mm

CNC Sawing

FORT VALE

Model

Kasto x 2
Kalteenbach x 2
Kasto Tec
Behringer

Capacity

Capable of holding
work up to 6m x
Ø450mm



Welding & Fabrications

FORT VALE

Facility

MIG/MAG – Fronius Transpluse 3200 GrNiEd x 7
TIG – Fronius Trantiz 3000 x 8; Magicwave 3000 x 1;
Master TIG x 2
PAW – SAF flatbed plasma welder 400 amps (1.3m
long); SAF Cir plasma welder 800mm o/d
Cloos-Romat® 310 twin head Robotic welders



Model

CNC Plasma Cutter
Messer Metal Master 6015

Capacity X Y Z

1.5m x 3m up to
25mm stock

Facility

Bending
Presses
Ring rolling

Size/Capacity

12mm thick, 2m length
12 off induction heating
4 off 40mm sq.section,
up to 12mm thick at
300mm depth
Up to 10mm thick, 2m
length
Up to 350 Kg
2500 Kg

Horizontal Press Break

Turntables
Floor Rolls

Quality & Inspection

FORT VALE

Facility

Mitutoyo Crystal CMM
Sigma Scope Shadow Graph
Pressure Testing Facility
UV-Dark facilities for oxygen clean service

In addition to these facilities, we have the following expertise:

- Material Scientist
- Qualified european welding engineer
- Qualified welding inspectors (CSWIP)
- Level II PCN and ASNT liquid penetrant inspectors



Stainless Steel Metal Finishing

FORT VALE

Facility

HF Pickling
Electro-polishing
Ultrasonic cleaning
Shot blasting
Dry blasting
Fettling



Accreditations

FORT VALE

Fort Vale Engineering Ltd. is accredited with the following:

ISO9001:2000



Pressure vessels or parts on request are built
in accordance with the requirements of ASME
Boiler and Pressure Vessel Code.



PED Module D & H
TPED & ATEX



TÜV HPO Approval

EN729-3



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