

DARWIN SHEETMETAL & LASER CUTTING

Machinery Capabilities 2026

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A practical capability summary for sheet metal, laser cutting, folding, rolling, welding and material handling. For unusual specifications, please contact DSM to confirm suitability before quoting or production.

General Machinery Capability Summary

Machine	Size / Type	Length / Capacity	Black or Galv Thickness	Stainless Steel Thickness	Aluminium Thickness
Rollers	Small hand rollers	From 80mm diameter 1250mm wide max	1mm	1mm	1mm
Rollers	Medium	From 120mm diameter 1840mm wide max	1.2mm	1.2mm	1.2mm
Rollers	Large	From 200mm diameter 1200mm wide max	6mm	3mm	6mm
Various CNC Press Folders	Heavy duty 200T	4050mm	8mm half length 6mm full length	6mm half length 4mm full length	8mm half length 6mm full length
Panbreak Folders	Medium duty	3200mm	3mm	2mm	3mm
Magna Bend	Light duty	2000mm	1.2mm	1.2mm	1.6mm
Guillotines	Medium duty	4050mm	5mm	3mm	10mm
Tube Laser	6kW fibre with tapping / thread	9.2m infeed 6.5m outfeed	14mm	10mm	10mm
Various Flatbed Lasers	3048mm x 1524mm	Accuracy and speed 0.02mm	25mm	16mm	12mm
Horizontal Folder	150mm wide	Suits saddles and brackets	16mm	12mm	20mm
Automated Bandsaw	Medium duty	12m length max 200mm SHS max 227mm CHS max 200mm flat bar max			
Steel, Stainless & Aluminium Welding	Any	Any	Any	Any	Any
Forklifts	Combilift CB 3T Caterpillar 3T Caterpillar 2.5T Caterpillar 2.5T	Please call for anything out of the ordinary			

Trumpf 7000 Series TruLaser Tube

6kW fibre tube laser capability with automatic loading/unloading, tapping, drilling and advanced part identification.

Capability	Details
Laser Power	6,000 watts - 6kW
Material Types	Mild Steel, Stainless Steel, Aluminium, Copper, Brass
Max Tube Length (Infeed)	9.2m automatic loading via LoadMaster
Max Part Length (Outfeed)	6.5m automatic unloading
Min Remaining Tube Length	120mm
Tube Shapes Supported	Round, square, rectangular, oval, H/I beams
Diameter / Size Range	Round: 12mm - 254mm OD Square: up to 180 x 180mm Rectangular: up to 220mm side
Max Part Weight	40kg per metre
Tapping & Drilling	Flow drilling, thread cutting, twist drilling on-machine
Bevel Cutting	Up to 45 degrees
Marking	Dot matrix part identification
Automation	Auto loading / unloading, program-controlled sorting
Camera Monitoring	Integrated Machine View Camera
Material Handling Capacity	Up to 6,500kg bundle loading
Accuracy	+/-0.12mm positioning / +/-0.015 degrees rotational

Max Wall Thickness

Material	Gas Type	Max Thickness
Mild Steel	Oxygen (O2)	14mm
Stainless Steel	Nitrogen (N2)	10mm
Aluminium	Nitrogen (N2)	10mm
Copper	Oxygen (O2)	5mm
Brass	Nitrogen (N2)	5mm

CBC Pipe Bender Capabilities

Capability	Details
Pipe diameters	Dies available for: 25mm OD, 32mm OD, 40mm OD, 50mm OD
Wall thickness	Minimum 3mm wall thickness is critical. Maximum 6-8mm wall thickness.
Bend radius to centreline	25mm OD = 75mm radius 32mm OD = 96mm radius 40mm OD = 120mm radius 50mm OD = 150mm radius
Square hollow section	25mm square die now in stock at DSM