

ADVANCED SHEET METAL AND TUBING

Innovative solutions in sheet metal and tubing

SERVICES OVERVIEW

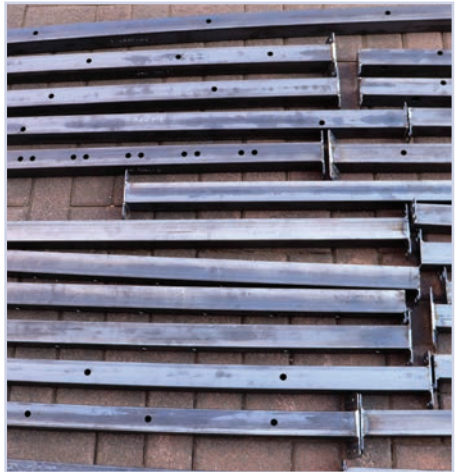
ABOUT US

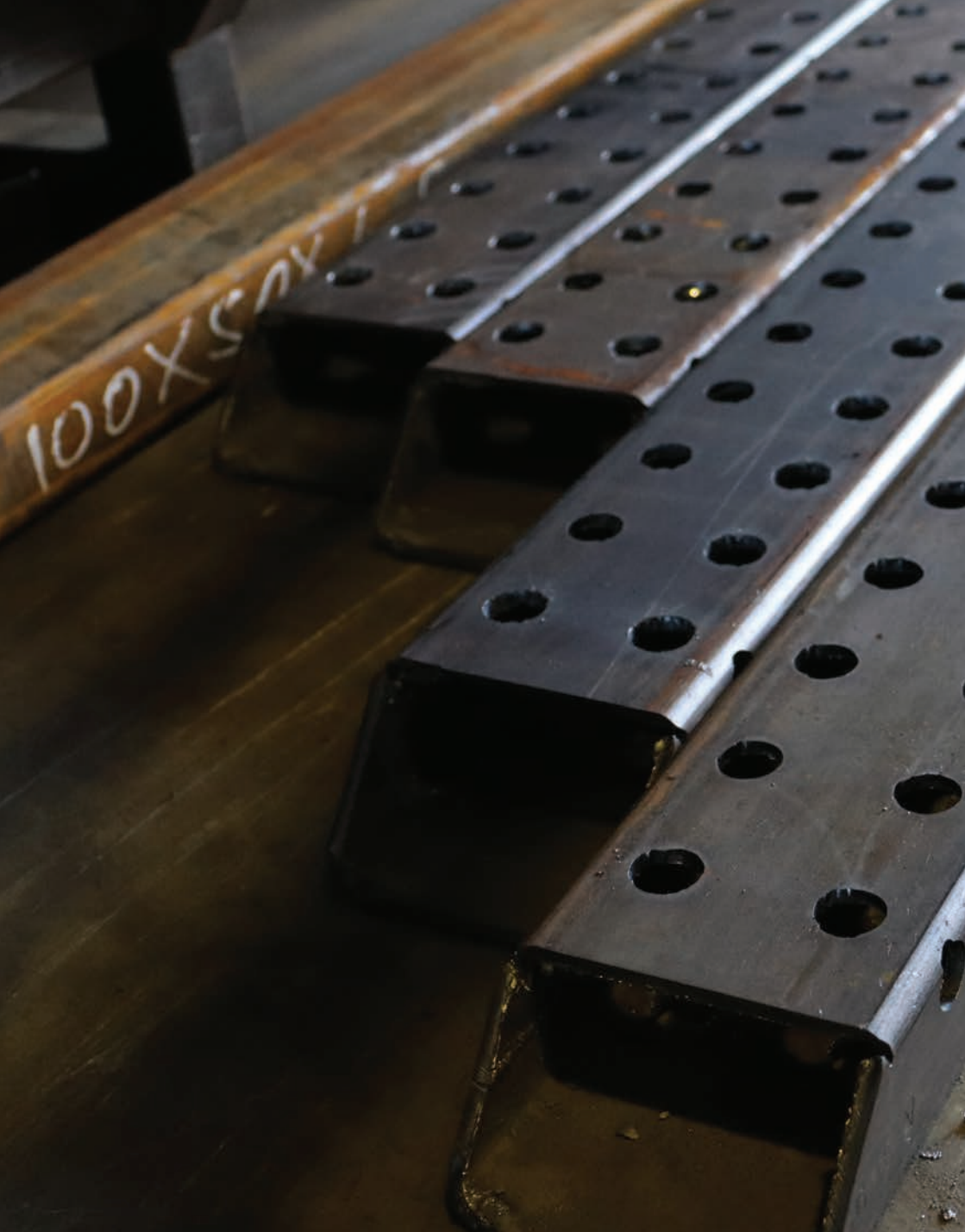
Advance Sheet Metal and Tubing is a unit within the Product Development Station. Along with our high-tech CNC machines, our trade extends to cutting, notching, and bending sheet metal and tubing. Our fabrication capabilities cover CNC Pipe cutting, CNC pipe Bending, and pipe fixtures.

We work very closely with other units in the PDTS to produce quality products and prototypes.

OUR CNC MACHINES	
TYPE OF MACHINE	MAKE AND MODEL
CNC Fibre Laser Tube Cutter	Bodor T230A
CNC Pipe Bender	Amob CH80CNC

At PDTS we can also laser cut and bend tubes in large in quantities. In the past, we did not offer mass production of parts. The aquisition of CNC Laser cutter and CNC Tube bender through the MedADD program, has made it possible for PDTS to produce parts in large quantities.





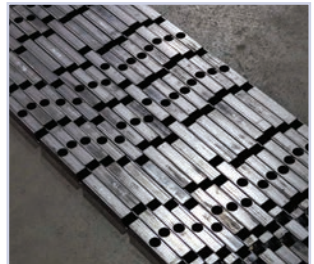
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FIBRE LASER TUBE CUTTING

Bodor T230A

A CNC laser tube cutter is a machine that uses computer numerical control equipment that uses a focused, high-powered laser beam to mark, cut, or engrave a material to form custom shapes on a metal tubing.

It is highly accurate, especially when cutting intricate shapes and small holes. Slotting, marking, notching, and hole marking are all combined in this machine, making it an ideal solution for many applications.



FEATURES OF THE FIBRE LASER TUBE CUTTER

Type of steel:	Mild steel & stainless steel
Tube cutting length:	6000 mm
Max pipe thickness:	8 mm mild steel, 5 mm stainless
Round tube cutting size:	∅ 20 mm – ∅ 230 mm
Square tube cutting size:	20 x 20 mm – 160 x 160 mm
Rectangular tube cutting size:	Edge Length 20 to 170 mm
X/Y axis positioning accuracy:	0.05 mm



CNC PIPE BENDER

Amob CH80CNC

Our CNC tube-bending machine fully automated and uses heavy-duty mechanical parts operated by a hydraulic system. CNC pipe benders can make complex bends to a very high degree of precision that hand-formed parts simply can't match.



FEATURES OF THE CNC PIPE BENDER

Type of steel:	Mild steel & stainless steel
Machine length:	3000 mm
Max pipe thickness:	19 x 1.6 mm with 35 mm bend radius
	25 x 1.6 mm with 75 mm bend radius
	25 x 2 mm with 75 mm bend radius
	32 x 1.6 mm with 75 mm bend radius
	32 x 2 mm with 75 mm bend radius
	38 x 1.6 mm with 75 mm bend radius
	38 x 2 mm with 75 mm bend radius
	50 x 1.6 mm with 100 mm bend radius
	50 x 2 mm with 100mm bend radius
	76 x 1.6 mm with 125 mm bend radius
	76 x 2 mm with 125 mm bend radius

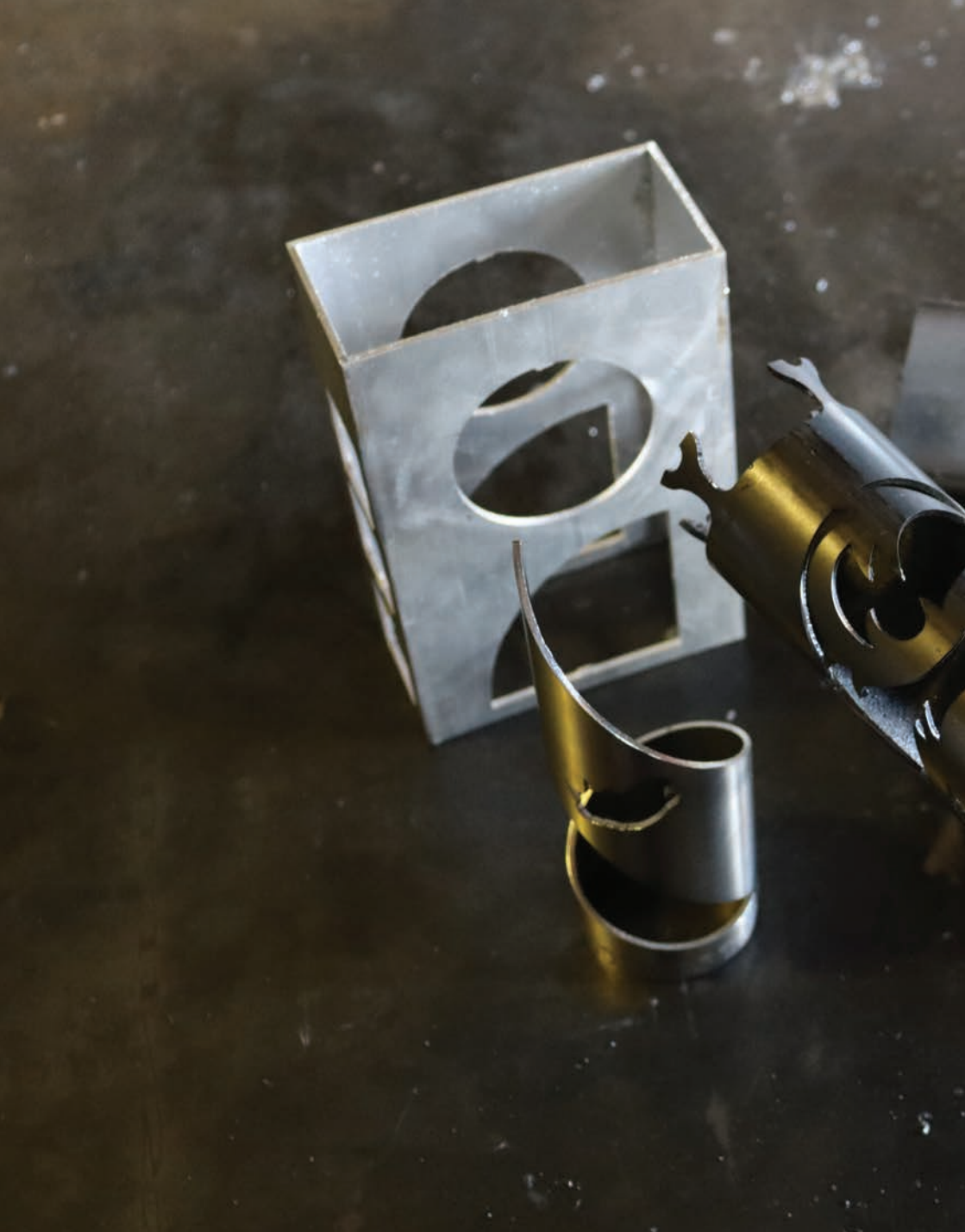


SHEET METAL FABRICATION

We specialise in sheet metal fabrication mastery, our trade extends to cutting, notching, bending and welding of sheet metal and tubing.











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PDTS is hosted by Central University of Technology, Free State

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An initiative of the Department of Science & Innovation



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