

# **THE SHADOW CN**

## **PORTAL FRAME MACHINE**



A dedicated CNC profile cutting machine for the smaller workshop, the Shadow portal frame system offers maximum productivity from a very compact work space. A choice of oxy-fuel gas or plasma torches makes the system ideal for the company with a mixed throughput of carbon steel and non-ferrous materials.

Systems options include:-  
upto 4 oxy-fuel gas torches  
Low current plasma-arc torch  
A choice of CNC systems  
Vertical and bevelled cut ( X & Y Axis)

# THE SHADOW CN

## SPECIFICATION:

The SHADOW CN PORTAL incorporates all the features included on the SHADOW range of cutting machines but with many more features. Fitted with BURNY CNC units this robust and precision manufactured portal machine is designed to run up to speeds of 6 metres per minute. A combination of both oxy/fuel gas cutting and plasma cutting provides a cost effective production tool. The SHADOW CN PORTAL features ease of plate loading since one rail is high and the other low thereby ensuring the plate does not hit the rail during the loading process.

## DESIGN FEATURES

**RUNNING TRACK:** 100mm rectangular section is precision ground to give a guiding accuracy of +/- 0.2mm measured over a 10 metre length. Secured to this by means of fixing screws and split pins is a 50mm x 12mm guiding/ running strip. Mounted to the guide rail is the precision rack for the drive system. The machine carriage is fixed to pre- fabricated stand assemblies. The split level running track incorporates ease of plate loading. The rails are mounted on pedestals giving the track maximum rigidity.

## MACHINE CONSTRUCTION

Manufactured from 150mm x 100mm rectangular section providing maximum rigidity with vibration free high speed travel, which gives accurate reproduction of profile shapes. The cross carriage is precision ground to enable component parts to be accurately assembled ensuring minimal wear to long production cycles with low maintenance related down time. The system runs on hardened steel drive wheels utilising, as always, sealed bearings of the highest quality.

## DRIVE SYSTEM

The SHADOW CN PORTAL is fitted with either the BURNY 1250 drive system for single torch plasma cutting, or the BURNY 1400 drive system for multiple torch gas or plasma cutting applications.

<u>MACHINE SIZES</u>	<u>1500</u>	<u>2000</u>	<u>2500</u>
Plate Width	1500mm	2000mm	2500mm
Cutting Speed	upto 6 metres per minute		
Basic track length	4250mm	4250 mm	4250mm
Working length (basic track)	3000mm	3000 mm	3000mm
Overall width	2260mm	2780mm	3280mm
Connection voltage		220/240v	

## **ADVANCED CUTTING SYSTEMS**

**GOODWIN PARK, SANDWICH INDUSTRIAL ESTATE, SANDWICH, KENT, CT13 9LN**

TEL: 01304 612522      FAX: 01304 617512      E. MAIL: [sales@advancedcutting.co.uk](mailto:sales@advancedcutting.co.uk)