



Specification Data

Column & Boom

Manipulators

Light Duty Series

Range up to 2.0 x 2.0 metres

Motorised Vertical Adjustment

Motorised Horizontal Adjustment



The **RedRock** standard duty series of Column & Boom Manipulators are specifically designed and built to withstand the harsh and rugged environments expected in the welding industry. It includes the following features:

- A slewing ring for column mounting, thereby providing a smooth 360-degree lockable rotation.
- All vertical and horizontal rails are precisely machined in single runs giving unsurpassed smooth and steady travel
- Non powered boom arm travel via easy glide manual hand wheel adjustment
- Motorised vertical travel via AC motor complete with brake for added safety
- High tensile roller chain used for vertical travel with the addition of a counter balance system provides smooth effortless vertical travel
- IP 55 control box and low voltage pendant control station
- Standard safety feature includes anti-fall device and limit switches for all functions
- Internally trunked cabling



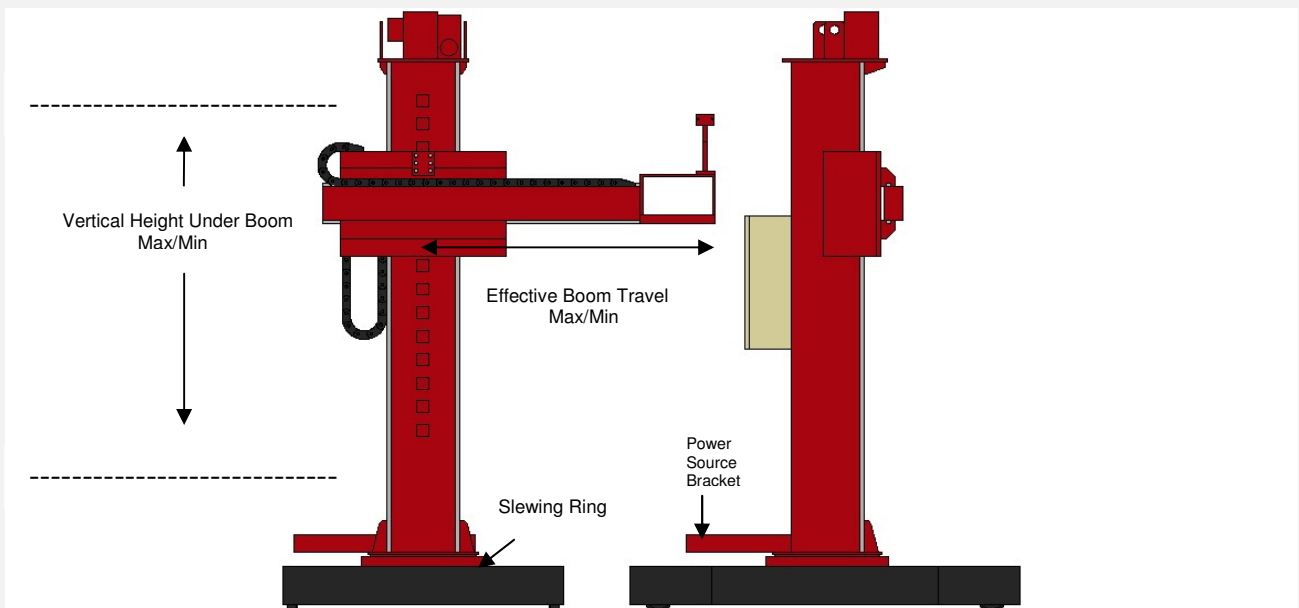
Specification Data

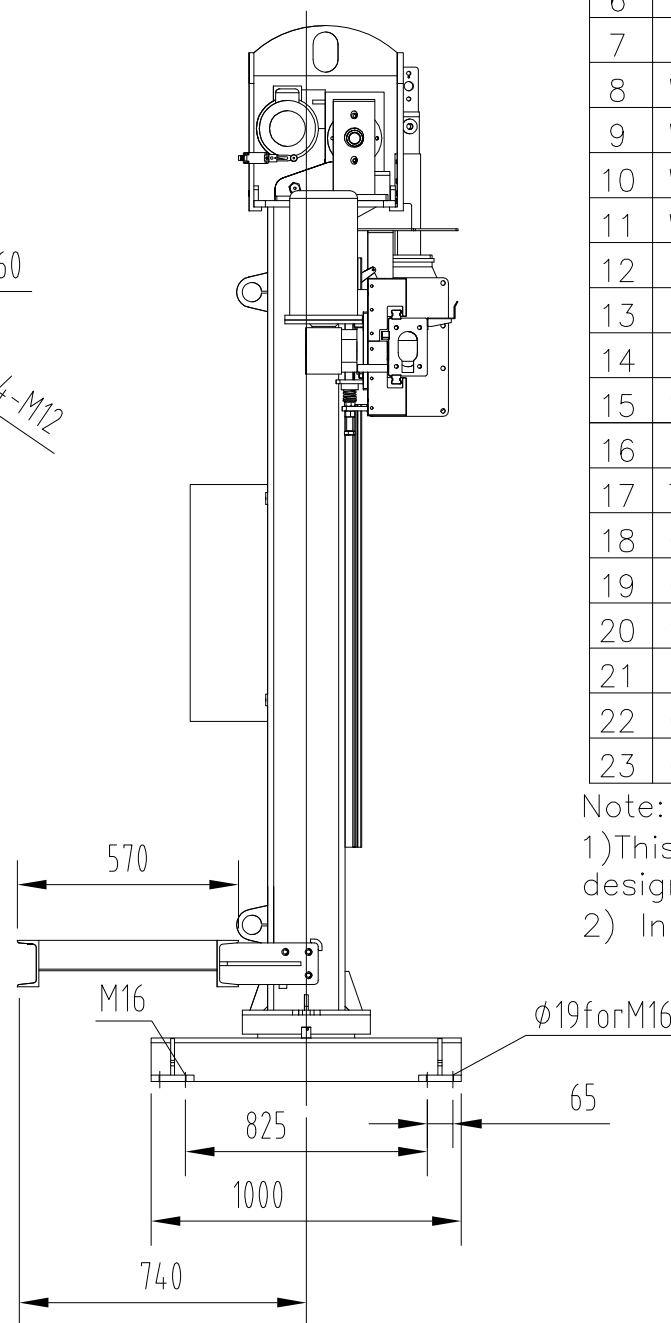
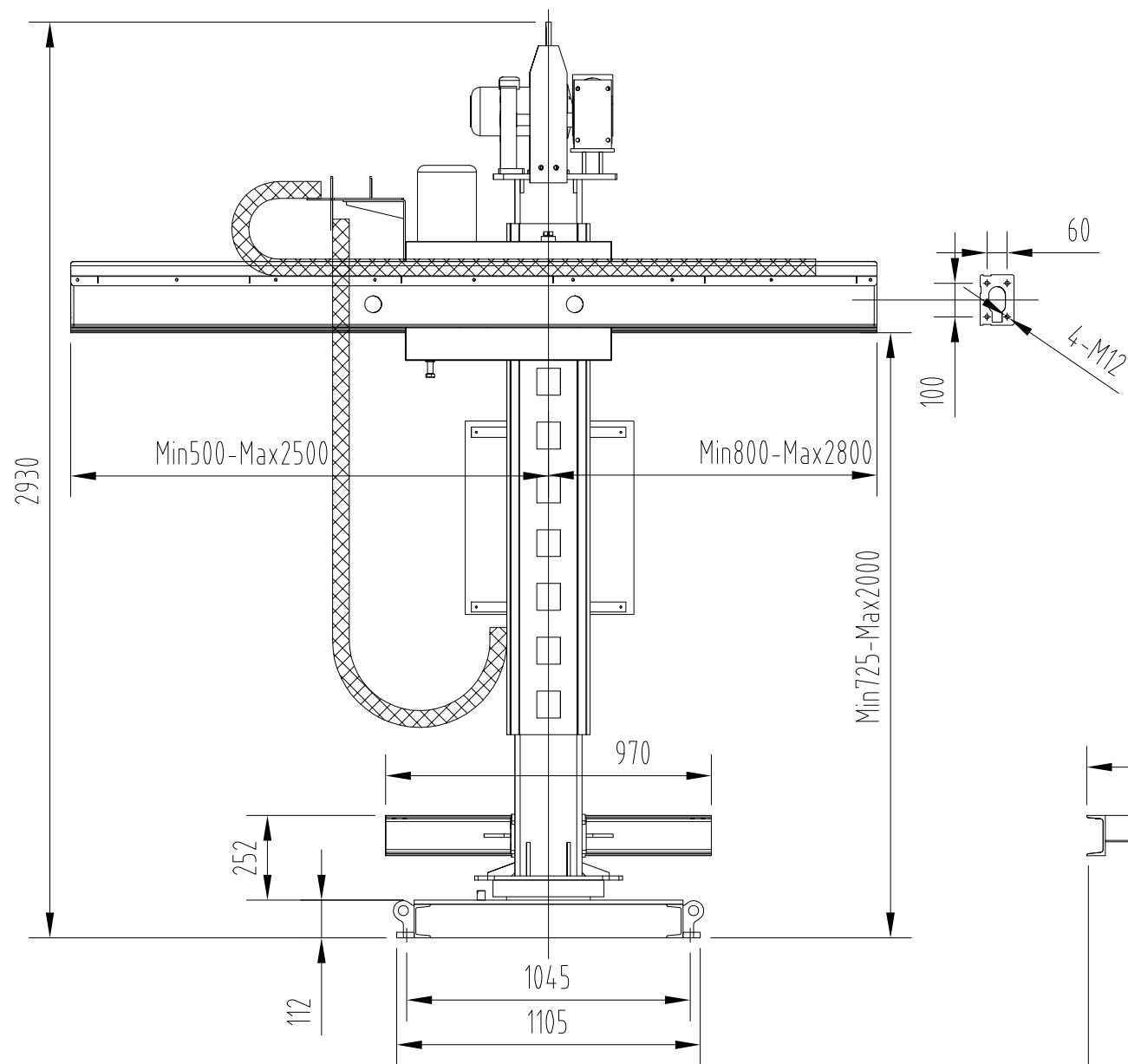
Column & Boom
Manipulators
Range up to 2.0 x 2.0 metres

Optional features include:

- Travel car, manual can be fitted for rail mounting
- X-Y slide, manual or motorized, operated via the same pendant station
- Welding power source & wire feeder controller system

All Column & Boom Manipulators are grit blasted to SA2.5 and two coats of zinc phosphate paint followed by one coat of polyurethane paintwork will ensure that your investment provides you with many years of uninterrupted service.





1	Model	ML2020-FM-WE-DC
2	Payload	100 kg at 300mm from the front end of boom
3	Vertical Speed	580 mm/min at 50Hz, 0.37KW c/w Brake
4	Boom Speed	317~3170mm/min, 0.37KW c/w Forced Cooling
5	Travel Speed	NA
6	Max. Under Boom Height	2000mm
7	Effective Boom Travel	2000mm
8	Welding Controller/Feeder	N.A.
9	Welding Controller Bracket	N.A.
10	Welding Power Source/Brand	N.A.
11	Welding Powersource Skid	Yes
12	Electrical Panel	Yes
13	Base Type	Floor Mounted Fixed Base
14	X-Y Slide	NA
15	Slewing Feature	Yes. Manual +/-180°
16	Power Supply	380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz
17	Travelcar Rail GG	N.A.
18	Control Voltage	24Vac
19	Control Means	Via Push Button Pendant c/w 7m Cable
20	Surface Preparation	Gritblast to SA2.5
21	Painting	Lead free, 2 coats Zinc Phosphate,1 coat Polyurethane
22	Color	RAL3003 Red & RAL9005 Black for fixed base
23	Quantity	1 unit

Note:

1)This drawing is for illustration only and subjected to final design and site confirmation.

2) Input terminals are wired for 400V by default.

ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.



CUSTOMER APPROVAL:

DATE:

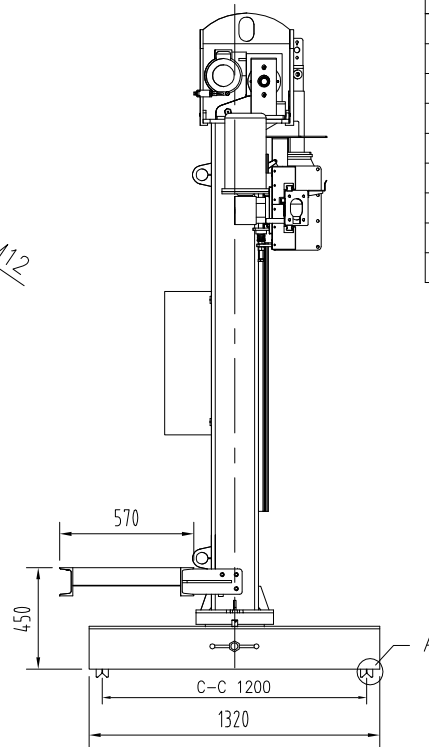
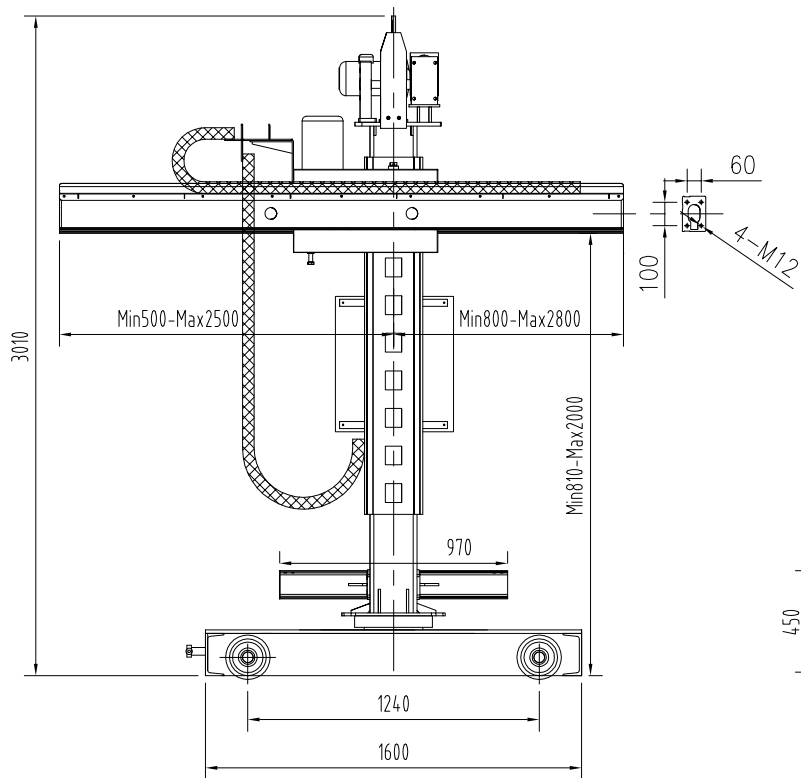
CHECKED BY:

DATE:

DRAWN BY: IC

DATE: 09-02-2011

REV	DATE	DESCRIPTION	EDIT BY	REMARKS
CUSTOMER:				
DRAWING NAME:		Light-Duty Manipulator		SCALE: N.T.S.
DRAWING NO.:		ML2020-FM-WE-DC		REV: 0
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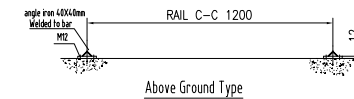
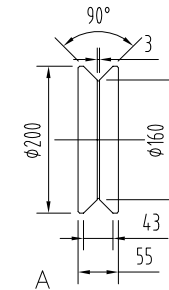


Specification for Manipulator

1	Model	ML2020-MT1200-WE-DC
2	Payload	100kg at 300mm from the front end of the boom
3	Vertical Speed	Max. 580mm/min 0.37 kw at 50Hz with brake
6	Boom Speed	317 to 3170 mm/min 0.37kw at 5 to 50Hz With Force Cooling
7	Max.Under Boom Height	2000mm
8	Effective Boom Travel	2000mm
9	Welding Controller/Feeder	N.A.
10	Welding Controller Bracket	N.A.
11	Welding Powersource/Brand	N.A.
12	Welding Powersource Skid	Yes
13	Electrical Panel	YES
14	Slewing Feature	Yes,Manual on slew ring
15	Power Supply	380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz
16	Control Voltage	24V AC
17	Control Means	Via push button pendant on 6m cable
18	Travelcar	Yes.Manual push trolley
19	Travelcar Rail G-G	1200mm
20	Surface Preparation	Gritblast to SA2.5
21	Painting	Powder coating
22	Color	RAL3003 Red & RAL9005 Black for travelcar only
23	Qty	1 unit

Note :

- 1) Input terminals are wired for 400V by default.
- 2) This drawing is accurate at time of preparation and may be subjected to final design.



ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.



CUSTOMER APPROVAL

CHECKED BY:

DRAWN BY: IC

31-08-2011

REV	DATE	DESCRIPTION	EDIT BY	REMARKS
CUSTOMER:				
DRAWING NAME:		Manipulator 2.0x2.0 on Manual travelcar		
DRAWING NO.:		ML2020-MT1200-WE-DC		
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				SCALE: N.T.S.
				REVISION: 0
				SHEET: 1 OF 1