

Specification Data
Column & Boom Manipulators
MHD Series
Range up to 5.0 x 5.0 metres

The **A&N** MHD 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.
- Latest Inverter drives fitted for variable speed of horizontal boom arm travel and rail travel car (optional).
- Worm gearbox for 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.

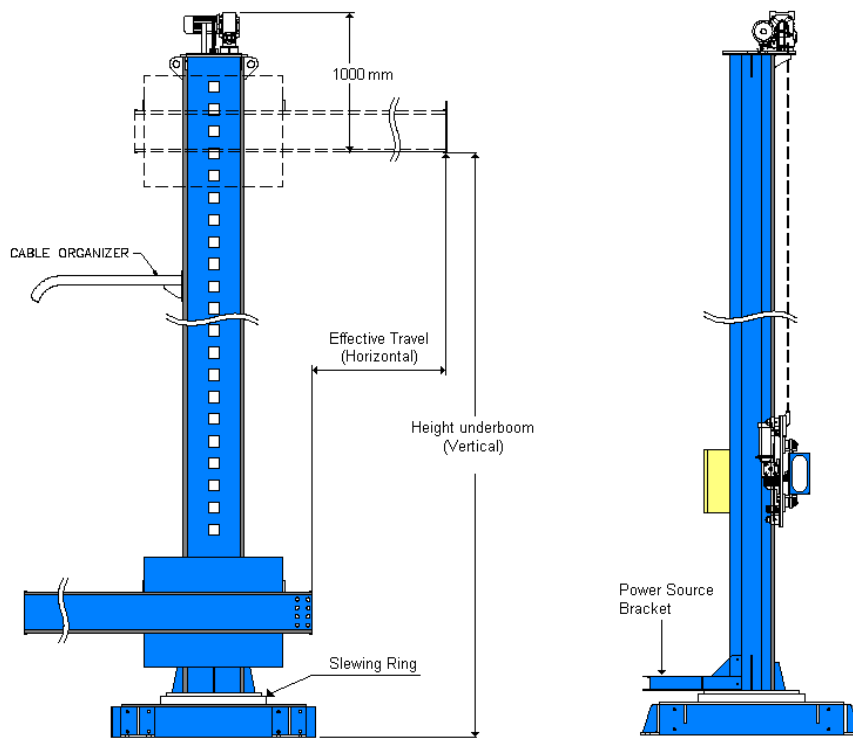
Inclusive:

- Power source mounting bracket of your choice

Optional features includes

- Travel car, manual or motorized variable speed operated via the same pendant station via selector switch.
- X-Y slide, manual or motorized, operated via the same pendant station.
- Compressed air operated flux recovery unit
- Welding power source & wire feeder controller system

All **A&N** 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.



MHD Series (Up to 5.0 x 5.0m) (C&B)

Specification

Input Voltage: 3-Phase Voltage (Specify 3 –phase voltage requirement before ordering)

Electrical Box: IP55 code

Vertical Travel Speed: 750mm/min

Boom Travel Speed: 200 to 2070 mm/min

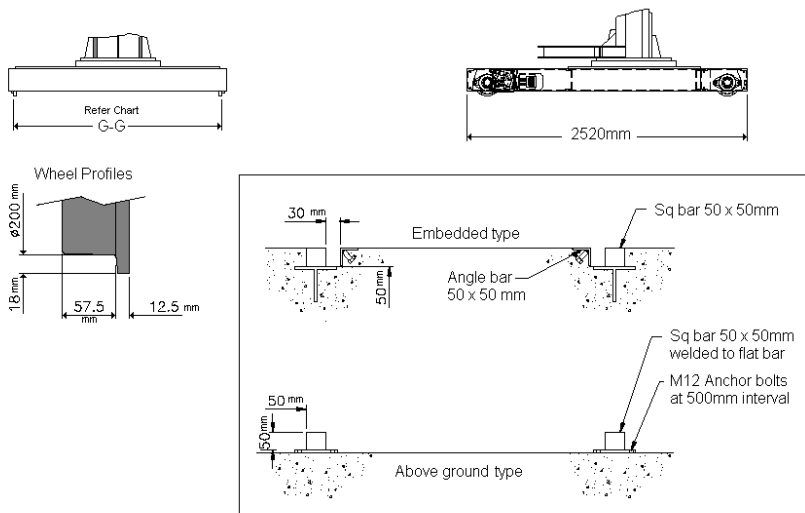
Carriage Travel Speed: 450 to 4500 mm/min (optional)

Model	Effective Travel (Horizontal) mm	Height Under Boom (Vertical) mm	Overall Height (mm)
RM2525 MHD	2500	2500	3500
RM3030 MHD	3000	3000	4000
RM3535 MHD	3500	3500	4500
RM4040 MHD	4000	4000	5000
RM5050MHD	5000	5000	6000

All dimensions are subject to change without prior notice.

All speed base on 50Hz.

Please advise welding power source/welding head to be use.



MHD Type Travelcar Rails G-G in mm (250kg Payload)

V ^H	25	30	35	40	50
25	1650				
30					
35					
40					
50					
			2000		

Notes:

V denotes Max. Under Boom Height (Vertical), in hundreds of mm. i.e. 20 = 2000mm

H denotes Effective Boom Travel (Horizontal), in hundreds of mm. i.e. 20 = 2000mm

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MHD Series (Up to 5.0 x 5.0m) (C&B)

Ordering Information Checklist

Equipment	Part Number	Description	
Column & Boom Manipulator	RM25/25MHD RM30/30MHD RM35/35MHD RM40/40MHD RM50/50MHD	2.5 x 2.5-metre Column & Boom 3 x 3-metre Column & Boom 3.5 x 3.5-metre Column & Boom 4.0 x 4.0-metre Column & Boom 5.0 x 5.0-metre Column & Boom (Comes with standard fixed Base unless specified)	
Base	[Blank] TC- TCM-	Fixed base (Standard) Travel car Manual Travel car Motorized	Standard Optional Optional
Electrical Control	EA- SA-	Panel & 3-phase AC motor Panel, step-over & 3-phase AC motor	Standard Optional

Welding System Accessories

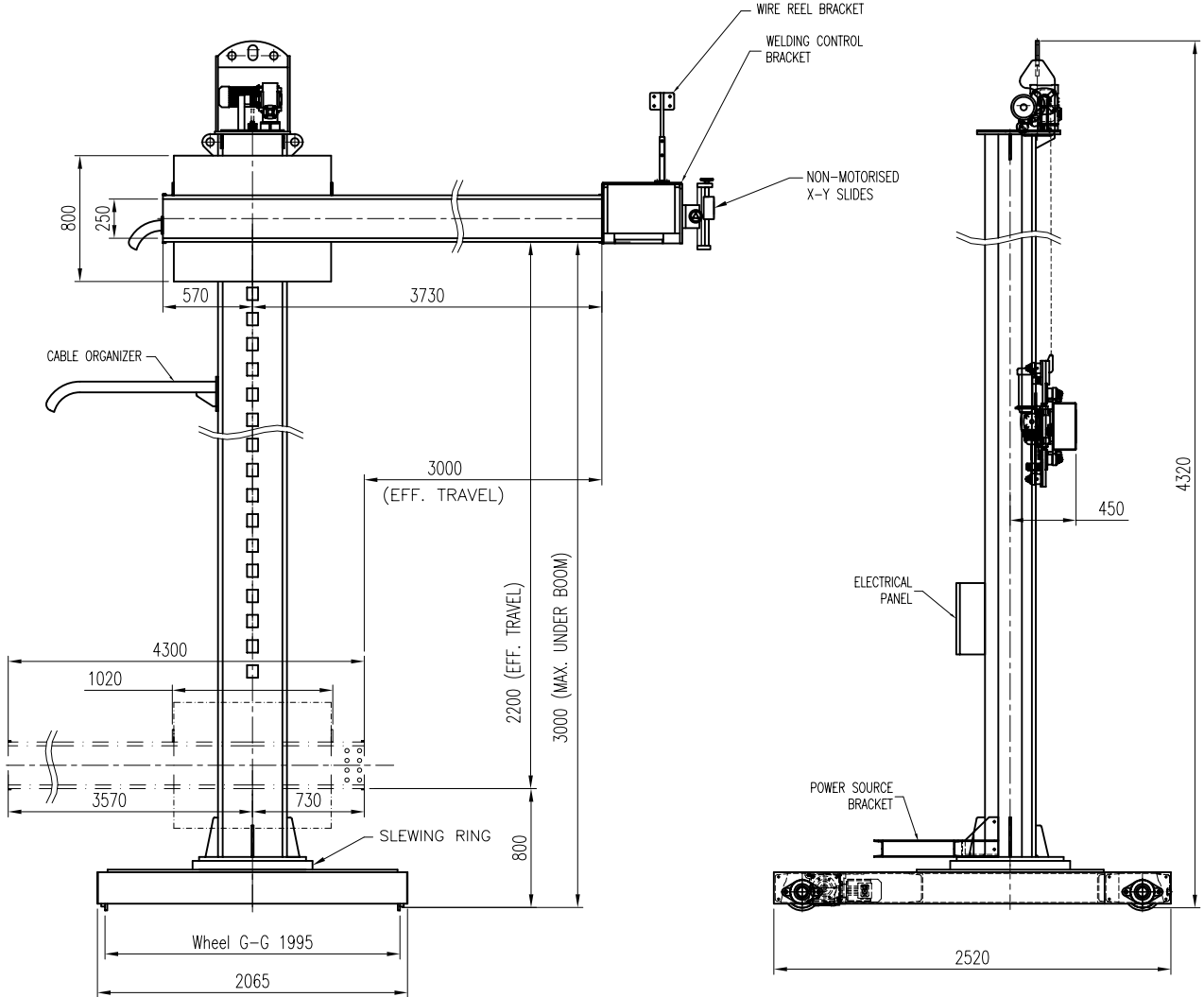
<p>Option One</p> <ul style="list-style-type: none"> • Lincoln NA3s Controller • K208A weld head • Drive roll kit • Wire reel • 600 amps nozzle • Cable kit Assemble • 10-Metre ground Cable with clamp • DC 1000 power source <p>Optional:</p> <p style="padding-left: 40px;">Rotary Clamp 1000 amp</p>	<p>Option Two</p> <ul style="list-style-type: none"> • Lincoln NA5 Controller • K346A weld head • Drive roll kit • Wire reel • 600 amps nozzle • Cable kit Assemble • 10 Metre ground Cable with clamp • DC 1000 power source <p>Optional:</p> <p style="padding-left: 40px;">Rotary Clamp 1000 amp</p>	<p>Option Three</p> <ul style="list-style-type: none"> • Miller HDC 1500 Controller • RAD Weld head • Flux hopper • Drive roll kit (Specify wire size) • Wire straightener • 600amps Nozzle • Wire reel • Cable kit assembly • 10 Metre ground Cable with clamp • Dimension 1000 power source <p>Optional:</p> <p style="padding-left: 40px;">Rotary Clamp 100 amp</p>
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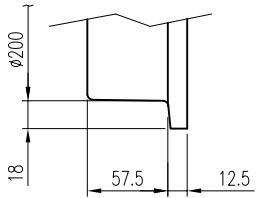
MHD Series (Up to 5.0 x 5.0m) (C&B)

Specification for Manipulator

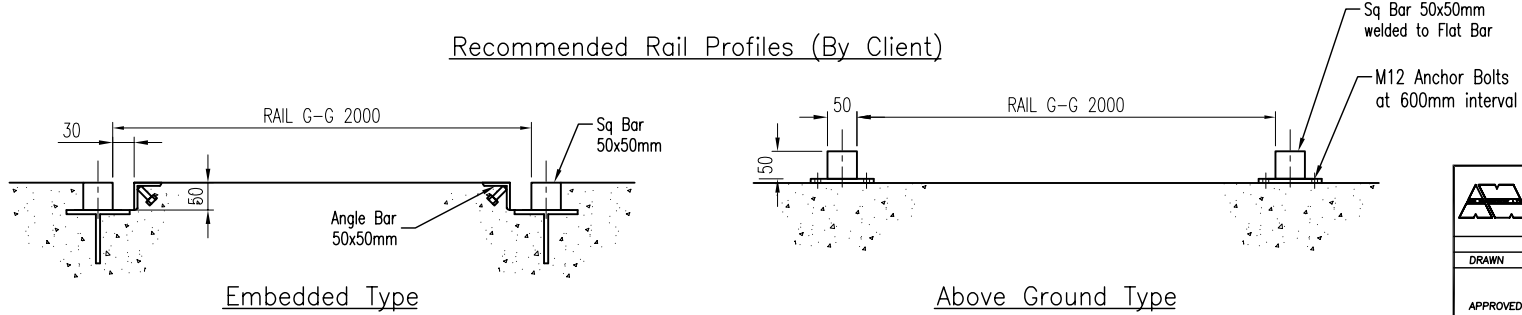
1	Model	RM3030MHD-TCM-EA-G2000
2	Max. Under Boom Height	3000mm
3	Effective Boom Travel	3000mm
4	Vertical Speed	754mm/min running at 50Hz 904mm/min running at 60Hz
5	Boom Speed	248~2484mm/min running at 6~60Hz
6	Travel Speed	538~5388mm/min running at 6~60Hz
7	Vertical Drive	AC 0.75kW c/w Brake
8	Brake Supply	230V-1P-50Hz
9	Boom Drive	AC 0.55kW c/w Force Cooling
10	Forced Cooling fan Supply	230V-1P-50Hz
11	Travelcar Drive	AC 0.75kW c/w Brake
12	Welding Control/Brand	T.B.A
13	Welding Power Source/Brand	T.B.A.
14	Electrical Panel	Yes
15	Base Type	Motorised Travelcar
16	Travelcar G-G	1995mm for G-G 2000mm Rails
17	Slewing Feature	Manual, 360°
18	Slewing Drive	N.A.
19	X-Y Slides	Manual, 200mm Stroke
20	Flux Recovery	No
21	Power Supply	415v-3P-50Hz
22	Control Voltage	24Vac
23	Control Means	Push Button Pendant c/w 8m Cable
24	Surface Preparation	Gritblast to SA2.5
25	Painting	2 coats Zinc Phosphate, 1 coat Polyurethane
26	Color	RAL5015 Blue
27	Qty	1 unit



Wheel Profiles (For Reference)



Recommended Rail Profiles (By Client)



A&N PLANT <small>ROTATORS - COLUMN MOUNTS - POSITIONERS</small>			PROJECT/MODEL : RM3030MHD-TCM-EA-G2000	
DRAWN : Kris			CLIENT : -	
DATE : 29-08-06			SCALE : N.T.S.	
APPROVED :			DWG. NAME : MANIPULATOR GENERAL ARRANGEMENT	
			DWG. NO. : SD-RM3030MHD-TCM-EA-G2000	
			REVISION : 0	
			SHEET NO. : 1 OF 1	

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