Specification Data Column & Boom Manipulator VHD Series Range up to 10 metres



TRAVELLING BASE

The **A&N** VHD 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.

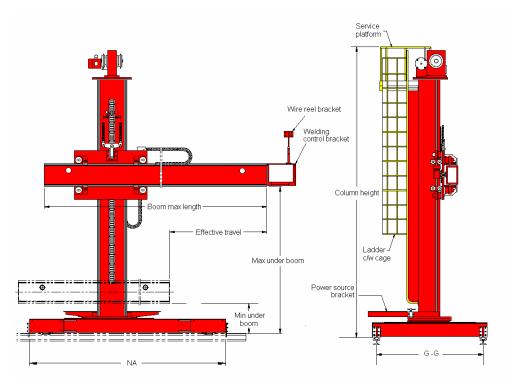
Inclusive:

• 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.



VHD series with Travelling Base

DIMENSION SPECIFICATIONS

Madal	4040 TOM	AFAF TON		~~~	FFFF	TOM	000		0.00	
Model with Travelcar	4040-TCM	4545-TCM	5050-T		5555	-TCM	606	50-TCM	050	5-TCM
Column height	5684	6184	6684		7184		768	34	818	4
Boom length	6500	7000	7500		8000		850	00	900	0
Vertical under boom	4000	4500	5000		5500		600	00	650	0
(max)										
Boom effective range	4000	4500	5000		5500		600	00	650	0
U	·									
Model with Travelcar	7070-	7575-	8080-	858	5-	9090-		9595-	1	00100-
	TCM	ТСМ	ТСМ	TCN	1	TCM		TCM	T	СМ
Column height	8684	9184	9684	1018	84	10684		11184	1	01684
Boom length	9500	10000	10500	1100	00	11500		12000	1	02500
Vertical under boom	7000	7500	8000	8500	0	9000		9500	1	0000
(max)										
Boom effective range	7000	7500	8000	8500	C	9000		9500	1	0000

DATA SPECIFICATIONS

Vertical Speed	1250mm/min
Boom Speed	150~1500mm/min
Travel Speed	200~2500mm/min
Vertical Drive	AC 2.2kw c/w brake
Boom Drive	AC 0.75kw c/w force cooling
Travel car Drive	AC 0.75kw c/w brake
Electrical Panel	IP55 class
Base Type	Motorized Travel car
Travel car G-G Rail	Factory advice
Slewing	Manual
Power Supply	3-phase line
Control Voltage	24Vac
Control Means	Push button pendant c/w M cable
Surface Preparation	Gritbast to SA2.5
Painting	2 coats zinc phosphate
	1 coat polyurethane
Color	RAL5015 blue

Note: Scope of cutting table, rail base support and civil works (By Others)

OPTIONS

X-Y Slides 200mm slide				
Slewing Drive				
Welding Control				
Welding Power Source				
Flux Recovery				
Walk way				
Cat Ladder				
	Ontional	C to a do ad		
Specify requirement	Optional	Standard	Specify quantity	

Table 4: VHD Type Travelcar Rails G-G in mm (300kg Payload)

VH	25	30	35	40	45	50	55	60	65	70	75	80
40						·						
45												3000 CW
50]		
55												
60			1650			2000		2500			3000	
65												
70												
75											·	
80												

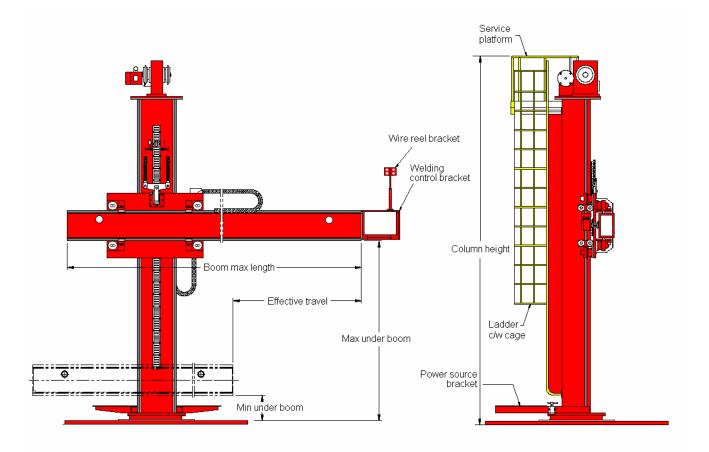
Notes:

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

CW denotes with Counterweight

VHD series with Fixed Base



DIMENSION SPECIFICATIONS

Model	4040	4545	5050	5555	6060	6565
Column height	5684	6184	6684	7184	7684	8184
Boom length	6500	7000	7500	8000	8500	9000
Vertical under boom	4000	4500	5000	5500	6000	6500
(max)						
Boom effective range	4000	4500	5000	5500	6000	6500

Model with TCM	7070	7575	8080	8585	9090	9595	100100
Column height	8684	9184	9684	10184	10684	11184	101684
Boom length	9500	10000	10500	11000	11500	12000	102500
Vertical under boom	7000	7500	8000	8500	9000	9500	10000
(max)							
Boom effective range	7000	7500	8000	8500	9000	9500	10000

DATA SPECIFICATIONS

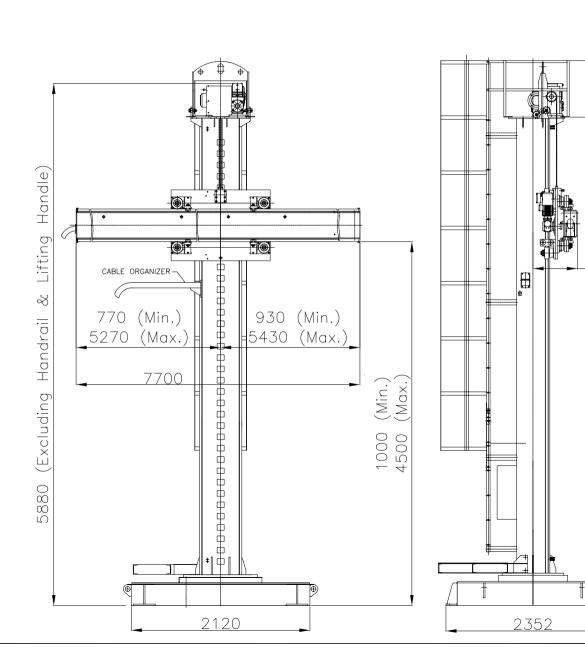
DATA SPECIFICATIO	
Vertical Speed	1250mm/min
Boom Speed	150~1500mm/min
Travel Speed	200~2500mm/min
Vertical Drive	AC 2.2kw c/w brake
Boom Drive	AC 0.75kw c/w force cooling
Electrical Panel	IP55 class
Base Type	Motorized Travel car
Slewing	Manual
Power Supply	3-phase line
Control Voltage	24Vac
Control Means	Push button pendant c/w M cable
Surface Preparation	Gritbast to SA2.5
Painting	2 coats zinc phosphate
	1 coat polyurethane
Color	RAL5015 blue

Note: Scope of cutting table, rail base support and civil works (By Others)

OPTIONS

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- ▲ Specify requirement
- Optional
- □Standard □ Specify quantity



Specification for Manipulator

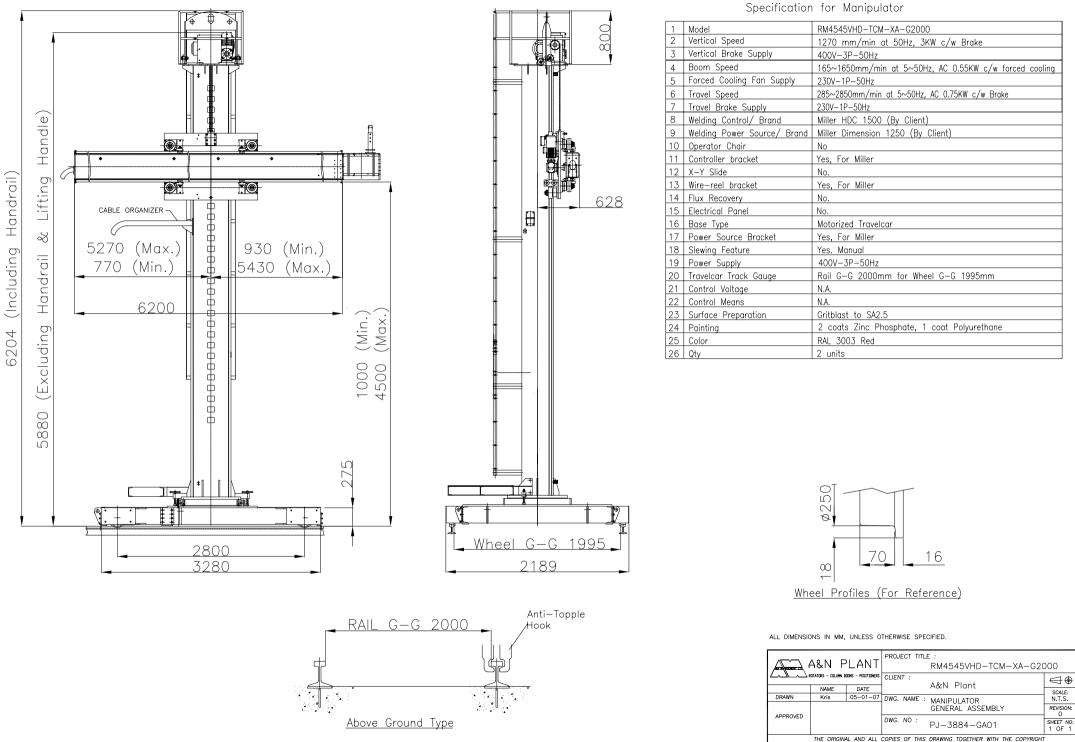
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1	Model	RM4545VHD-FB-XA
2	Vertical Speed	1060 mm/min at 50Hz, 2.2KW c/w Brake
3	Boom Speed	165~1650mm/min at 5~50Hz, AC 0.55KW c/w Force Cooling
4	Travel Speed	N.A.
5	Welding Control/ Brand	T.B.A.
6	Welding Power Source/ Brand	T.B.A.
7	Operator Chair	No
8	Controller bracket	Yes
9	X-Y Slide	No.
10	Wire-reel bracket	Yes
11	Flux Recovery	No.
12	Electrical Panel	Yes
13	Base Type	Fixed Base
14	Power Source Bracket	Yes
15	Slewing Feature	Yes. Manual
16	Power Supply	400V-3P-50Hz
17	Travelcar Track Gauge	N.A.
18	Control Voltage	24Vac
19	Control Means	Via Pendant Control c/w 14m cable
20	Surface Preparation	Gritblast to SA2.5
21	Painting	2 coats Zinc Phosphate, 1 coat Polyurethane
22	Color	RAL 3003 Red
23	Qty	T.B.A

ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.

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	rotators - column e		CLIENT :	_	€⊕				
	NAME	DATE			SCALE:				
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APPROVED			DWG. NO :	AN-RM4545VHD-FB-XA	SHEET NO: 1 OF 1				
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