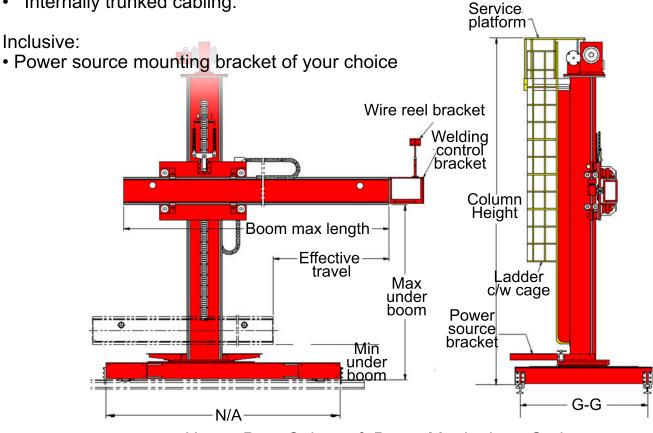


MV6060

Traveling Base

The Harbach Positioning Heavy 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° lockable rotation. ٠
- All vertical and horizontal rails are precisely machined in single runs giving unsurpassed ٠ 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 ٠ 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. •



Heavy Duty Column & Boom Manipulator Series

218 W. Richey Road Houston, TX 77090

Positioning.Har-Bach.com sales@har-bach.com

Phone: 281-440-1725 Fax: 281-440-1724



MV6060

Optional Features Include

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

MV series with Traveling Base

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

DIMENSION SPECIFICATIONS

| Model with Travelcar | 7070-TCM | 7575-TCM | |
|------------------------------|----------|----------|--|
| Column height | 8684 | 9184 | |
| Boom length | 9500 | 10000 | |
| Vertical under boom (max) | 7000 | 7500 | |
| Boom effective range | 7000 | 7500 | |

Heavy Duty Column & Boom Manipulator Series

Positioning.Har-Bach.com sales@har-bach.com



MV6060

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 | Gritblast to SA2.5 |
| Painting | 2 coats zinc phosphate, 1 coat polyurethane |
| Color | Red |

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

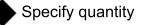
OPTIONS

| X-Y Slides 200mm slide | |
|------------------------|--|
| Slewing Drive | |
| Welding Control | |
| Welding Power Source | |
| Flux Recovery | |
| Walk way | |
| Cat Ladder | |

Specify requirement

Optional





218 W. Richey Road Houston, TX 77090 Positioning.Har-Bach.com sales@har-bach.com



MV6060

Manipulator Rail Gauge Table

MV series

| Boom Height | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 |
|----------------|----|------|---|-----|--------|-----|---|-----------------|--------|
| 4 | | | | | | | | GG30 | 00 c/w |
| 4.5 | | | | | | | | GG30 counter | weight |
| 5 | | | | | | | | | |
| 5.5 | | | | | | | | | |
| 6 | GG | 2000 | | | | | | | |
| 6.5 | | | | | GG2500 | | | GG3000 | |
| 7 | | | | | | | | | |
| 7.5 | | | | | | | | | |
| | | | | | | | | | |

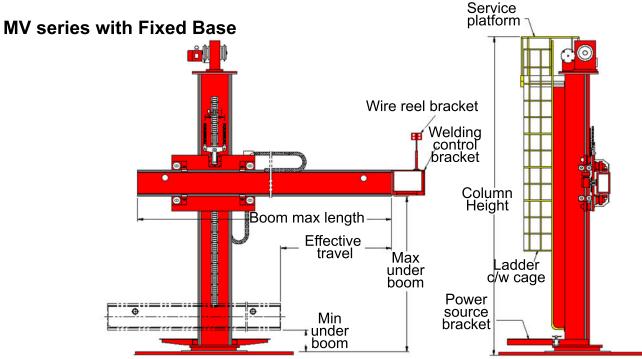
Notes:

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

Heavy Duty Column & Boom Manipulator Series



MV6060



DIMENSION SPECIFICATIONS

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

| Model with TCM | 7070 | 7575 |
|------------------------------|------|-------|
| Column height | 8684 | 9184 |
| Boom length | 9500 | 10000 |
| Vertical under boom (max) | 7000 | 7500 |
| Boom effective range | 7000 | 7500 |

Heavy Duty Column & Boom Manipulator Series

Positioning.Har-Bach.com sales@har-bach.com



MV6060

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 |
| 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 | Gritblast 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 | |

Specify requirement
 Optional
 Standard
 Specify quantity

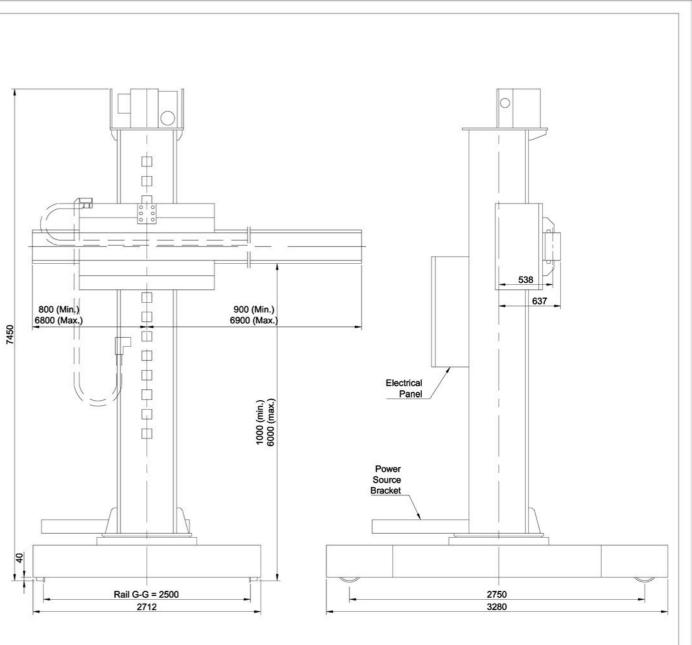
Heavy Duty Column & Boom Manipulator Series

Positioning.Har-Bach.com sales@har-bach.com

| 1 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | | Spe | ecifications for Manipulator |
|--|----|----------------------------|--|
| a Effective Boom Travel 6000mm 4 Vertical Speed 1250mm/min running at 50Hz 5 Boom Speed 165~1650mm/min running at 5~50Hz 6 Travel Speed 333~3335mm/min running at 5~50Hz 7 Vertical Drive 3.0KW AC Motor c/w Brake 8 Boom Drive 0.55KW AC Motor c/w Brake 8 Boom Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Voltage 24Vac 2 </th <th>1</th> <th>Model</th> <th>MV6060-PT2500-WE</th> | 1 | Model | MV6060-PT2500-WE |
| 4 Vertical Speed 1250mm/min running at 50Hz 5 Boom Speed 165~1650mm/min running at 5~50Hz 6 Travel Speed 333~3335mm/min running at 5~50Hz 7 Vertical Drive 3.0KW AC Motor c/w Brake 8 Boom Drive 0.55KW AC Motor c/w Brake 8 Boom Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg | 2 | Max. Under Boom Height | 6000mm |
| boom Speed 165-1650mm/min running at 5~50Hz 6 Travel Speed 333-3335mm/min running at 5~50Hz 7 Vertical Drive 3.0KW AC Motor c/w Brake 8 Boom Drive 0.55KW AC Motor c/w Brake 8 Boom Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coa | 3 | Effective Boom Travel | 6000mm |
| 6 Travel Speed 333-3335mm/min running at 5~50Hz 7 Vertical Drive 3.0KW AC Motor c/w Brake 8 Boom Drive 0.55KW AC Motor c/w Brake 9 Travel Car Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coa | 4 | Vertical Speed | 1250mm/min running at 50Hz |
| 7 Vertical Drive 3.0KW AC Motor c/w Brake 8 Boom Drive 0.55KW AC Motor c/w Force Cooling 9 Travel Car Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Voltage 24/Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 250kg 25 Surface Preparation Gritblast to SA2.5 26 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethange 27 | 5 | Boom Speed | 165~1650mm/min running at 5~50Hz |
| 8 Boom Drive 0.55KW AC Motor c/w Force Cooling 9 Travel Car Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Feature NA. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Voltage 24 Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethange 27 Colour RAL3003 Red & RAL9005 Black for | 6 | Travel Speed | 333~335mm/min running at 5~50Hz |
| 9 Travel Car Drive 0.75KW AC Motor c/w Brake 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz ¹ 22 Control Voltage 24Vac 23 Control Voltage 24Vac 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 7 | Vertical Drive | 3.0KW AC Motor c/w Brake |
| 10 Drive Control Inverter (Toggle between Boom & Travel Car) 11 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 8 | Boom Drive | 0.55KW AC Motor c/w Force Cooling |
| 1 Welding Controller/Feeder T.B.A. (by Others) 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 9 | Travel Car Drive | 0.75KW AC Motor c/w Brake |
| 12 Welding Power Source/Brand T.B.A. (by Others) 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 10 | Drive Control | Inverter (Toggle between Boom & Travel Car) |
| 13 Electrical Panel Yes 14 Base Type Travel Car Motorized 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 11 | Welding Controller/Feeder | T.B.A. (by Others) |
| Indication Travel Car Motorized 15 Travel Car Rail G-G 2500mm 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 12 | Welding Power Source/Brand | T.B.A. (by Others) |
| 15 Travel Car Rail G-G 2500mm 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 13 | Electrical Panel | Yes |
| 16 Slewing Feature Manual, ±180° 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 14 | Base Type | Travel Car Motorized |
| 17 Slewing Drive N.A. 18 X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 15 | Travel Car Rail G-G | 2500mm |
| X-Y Slides No 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 16 | Slewing Feature | Manual, ±180° |
| 19 Operator Chair No 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 17 | Slewing Drive | N.A. |
| 20 Flux Recovery No 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 18 | X-Y Slides | No |
| 21 Incoming Supply 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethand 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 19 | Operator Chair | No |
| 22 Control Voltage 24Vac 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 20 | Flux Recovery | No |
| 23 Control Means Via Push Button Pendant c/w 11m Cable 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 21 | Incoming Supply | 380/400/415V-3P-50Hz or 440/460/480V-3P-60Hz 1 |
| 24 Payload 250kg 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 22 | Control Voltage | 24Vac |
| 25 Surface Preparation Gritblast to SA2.5 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 23 | Control Means | Via Push Button Pendant c/w 11m Cable |
| 26 Painting Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 24 | Payload | 250kg |
| 27 Colour RAL3003 Red & RAL9005 Black for Travelcar only 28 Qty 1 Unit | 25 | Surface Preparation | Gritblast to SA2.5 |
| 28 Qty 1 Unit | 26 | Painting | Lead free, 2 Coats Zinc Phosphate, 1 Coat Polyurethane |
| | 27 | Colour | RAL3003 Red & RAL9005 Black for Travelcar only |
| 29 Weight ~7350kg | 28 | Qty | 1 Unit |
| | 29 | Weight | ~7350kg |

Note:

Input terminals are wired for 400V by default.
 This drawing is accurate at the time of preparation and maybe subject to final design change.



| | All dimensions in mm unless otherwise s | pecified. REV DATE DESCRIPTION | EDIT BY REMARKS |
|-------------------|---|---|---|
| CUSTOMER APPROVAL | CHECKED BY: DRAWN BY: S | CUSTOMER: | SCALE: N.T.S. |
| | | DRAWING NAME: Very Heavy Duty Man | |
| | | DRAWING NO.: MV6060-PT2500- | WE 0 |
| | 17-08-2010 | THE ORIGINAL AND ALL COPIES OF THIS DOCUMENT TOGETHER WITH THE COPYRIGHT THEREOF ARE THE SOLE PROPER PRIOR NOTICE. | RTY OF HARBACH MARKETING, INC. DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT SHEET: 1 OF 1 |