



Specification Data
Conventional Rotators
Capacity: 5/7 Tonnes
MODEL: PR5/7DM

A&N rotators are a robust heavy duty design built to withstand the harsh and rugged environments expected in the world of welding and fabrication requirements. Our proven design uses 330mm diameter 115 width, replaceable hard-wearing polyurethane tyres mounted onto a cast steel drum for maximum durability and superior traction.

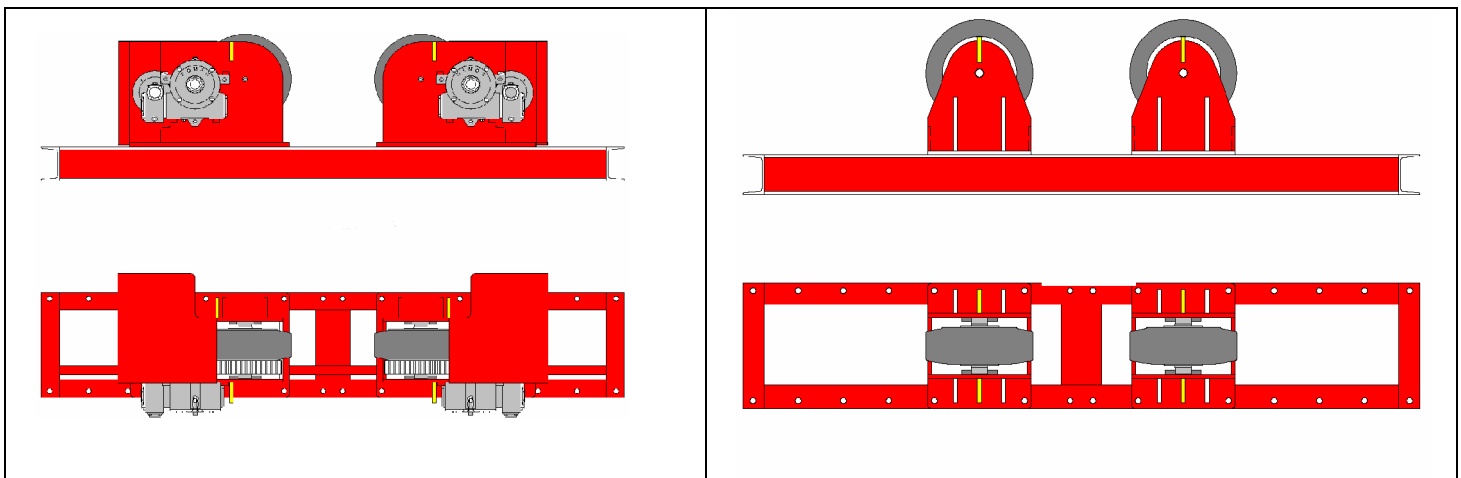
The powered drive unit drives all wheels synchronized using the AC gear motors via the latest inverter control. A hand held low voltage control pendant on a 15-metre cable provides the operator with full control of the rotator including a potentiometer for varying the speed, forward/reverse and stop.

All **A&N** rotators are grit blasted to SA 2.5 for all structural steel and polyurethane paintwork ensuring that your investment provides you with many years of reliable, trouble-free use.

The idler roll has the same dimensions to match the powered drive unit. See GA drawing attached.

Power rolls specifications

| | |
|--------------------|--|
| Model: | PR 5/7 DM |
| Load Capacity: | 5 Metric ton (1 power & 1 idler) |
| Rotation Capacity: | 7 metric ton (1 power) |
| Rotation Speed: | 102 to 1020mm/min |
| Vessel diameter: | Min 165mm to Max 4240mm @ 45 degree included angle |
| Incoming supply: | 220/240V/1 Phase/50-60/hz. (Specify input voltage when ordering) |
| AC Inverter: | 0.75KW inverter system |
| Motor rating: | 0.37KW x 2 |
| Control voltage: | 24 Volt control circuit. |
| Weight: | 420Kg Drive 280Kg Idler |



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PR5/7DM (5 Tonne)

Rotator Selection Chart :- Standard 5~10MT

Guidelines for Vessel Diameter in mm (D)

| CC (mm) | Included Angle, θ (in deg) | | | | | | | | | | | | |
|------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 350 | 1022 | 834 | 693 | 584 | 498 | 428 | 370 | 321 | 280 | 245 | 214 | 188 | 165 |
| 630 | 2104 | 1765 | 1512 | 1316 | 1161 | 1034 | 930 | 842 | 768 | 705 | 650 | 602 | 561 |
| 910 | 3186 | 2696 | 2330 | 2048 | 1823 | 1641 | 1490 | 1363 | 1256 | 1165 | 1086 | 1017 | 957 |
| 1190 | 4268 | 3627 | 3149 | 2779 | 2486 | 2247 | 2050 | 1885 | 1745 | 1625 | 1521 | 1431 | 1353 |
| 1470 | 5349 | 4558 | 3968 | 3511 | 3148 | 2853 | 2610 | 2406 | 2233 | 2085 | 1957 | 1846 | 1749 |
| 1750 | 6431 | 5489 | 4786 | 4243 | 3811 | 3460 | 3170 | 2927 | 2721 | 2544 | 2392 | 2260 | 2145 |

Vessel Clearance from Skid in mm (C)

| CC (mm) | Included Angle, θ (in deg) | | | | | | | | | | | | |
|------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 350 | 392 | 388 | 384 | 380 | 376 | 372 | 368 | 364 | 360 | 356 | 351 | 347 | 343 |
| 630 | 374 | 367 | 359 | 352 | 345 | 338 | 331 | 323 | 316 | 308 | 300 | 293 | 285 |
| 910 | 355 | 345 | 335 | 324 | 314 | 304 | 293 | 282 | 272 | 261 | 249 | 238 | 227 |
| 1190 | 337 | 323 | 310 | 297 | 283 | 269 | 256 | 242 | 227 | 213 | 198 | 184 | 169 |
| 1470 | 318 | 302 | 285 | 269 | 252 | 235 | 218 | 201 | 183 | 166 | 147 | 129 | 111 |
| 1750 | 300 | 280 | 261 | 241 | 221 | 201 | 181 | 160 | 139 | 118 | 97 | 75 | 53 |

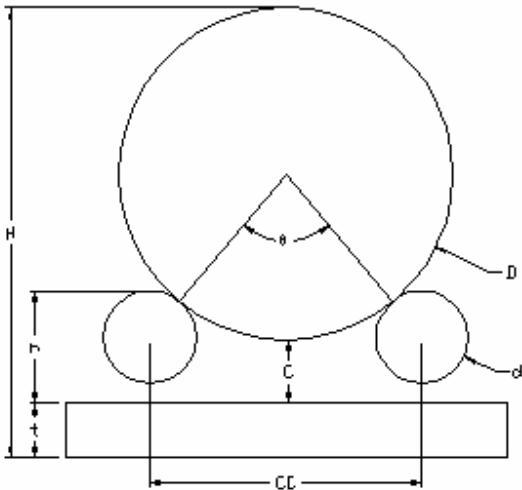
Overall Vessel Height in mm (H)

| CC (mm) | Included Angle, θ (in deg) | | | | | | | | | | | | |
|------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 350 | 1539 | 1347 | 1202 | 1090 | 999 | 925 | 863 | 810 | 765 | 725 | 691 | 660 | 632 |
| 630 | 2602 | 2256 | 1996 | 1793 | 1631 | 1497 | 1385 | 1291 | 1209 | 1138 | 1075 | 1020 | 970 |
| 910 | 3666 | 3166 | 2790 | 2497 | 2262 | 2069 | 1908 | 1771 | 1653 | 1550 | 1460 | 1380 | 1308 |
| 1190 | 4729 | 4076 | 3584 | 3201 | 2894 | 2641 | 2430 | 2251 | 2097 | 1963 | 1845 | 1740 | 1646 |
| 1470 | 5793 | 4985 | 4378 | 3905 | 3525 | 3213 | 2953 | 2731 | 2541 | 2375 | 2229 | 2100 | 1984 |
| 1750 | 6856 | 5895 | 5172 | 4609 | 4157 | 3786 | 3475 | 3212 | 2985 | 2787 | 2614 | 2460 | 2322 |

Note:

1. This chart is applicable to A&N ROTATOR using diameter 330mm (13") tyres.
2. Recommended Included Angle should **always** be greater than 45-degree unless vessel is true concentric.
3. Shaded portion is not recommended

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Roller Dia. (d) = 330 mm
 Roller Ht. from Skid (h) = 415 mm
 Skid Ht. (t) = 125 mm

Ordering Information and system checklist

| Equipment | Part Number | Description |
|---------------------------------------|-------------|---|
| Rotator | PR5/7DM | 5 metric ton loading capacity / 7 metric ton turning capacity |
| Built-in with | EA- | 3-phase AC motor, Pendant control with 15m cable. |
| Base Frame Length Center to Center | 1750- | Base frame maximum center to center distance 1750mm(C-C) |

Optional item

| | | |
|------------|-------------------|---|
| Devices | AC- ACM- Y- | Anti-creep device manual Anti-creep device motorized Lead-screw type C-C adjustment |
| Travel car | TC- TCM- | Travel car Manual Travel car Motorized |

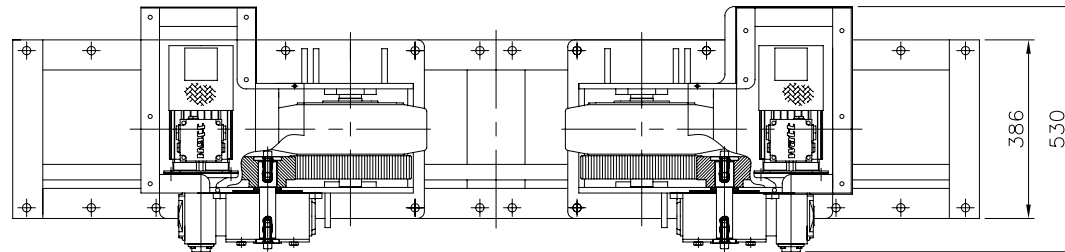
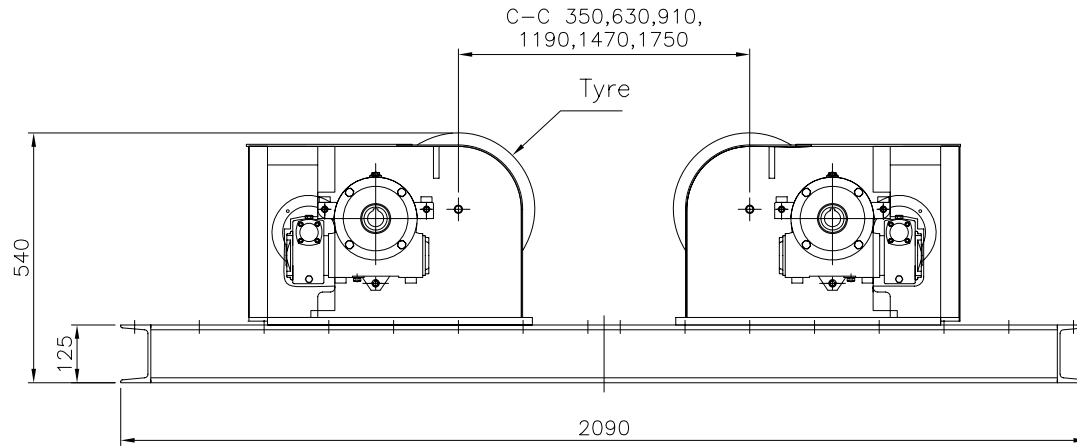
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PR5/7DM (5 Tonne)

Specification for Rotator

| | | |
|----|---------------------------|---|
| 1 | Model | PR5/7DM-XA-1750 |
| 2 | Capacity (Loading) | 2.5 metric tons |
| 3 | Capacity (Turning) | 7 metric tons |
| 4 | Vessel Size (Min.) | Ø165mm at 90° Included Angle |
| 5 | Vessel Size (Max.) | Ø6430mm at 30° Included Angle Ø4240mm at 45° Included Angle Ø3170mm at 60° Included Angle |
| 6 | Tyre and Size | Polyurethane, Ø13"x4-1/2" |
| 7 | Electrical Panel | No |
| 8 | Roller Speed | 102 to 1020mm/min at 5 to 50Hz |
| 9 | Incoming Supply | 400V-3P-50Hz |
| 10 | Control Voltage | N.A. |
| 11 | Roller Drive Control | N.A. |
| 12 | Control Means | N.A. |
| 13 | Roller Drive Motor | 2 x AC 0.37KW c/w Force Cooling |
| 14 | Forced Cooling Fan Supply | 230V-1P-50Hz |
| 15 | Travelcar (Bogie) | N.A. |
| 16 | Travelcar Speed | N.A. |
| 17 | Surface Preparation | Gritblast to SA2.5 |
| 18 | Painting | 2 coats Zinc Phosphate, 1 coat Polyurethane |
| 19 | Color | RAL 3003 Red |
| 20 | Qty | T.B.A. |
| 21 | Est. Weight | 380KG |

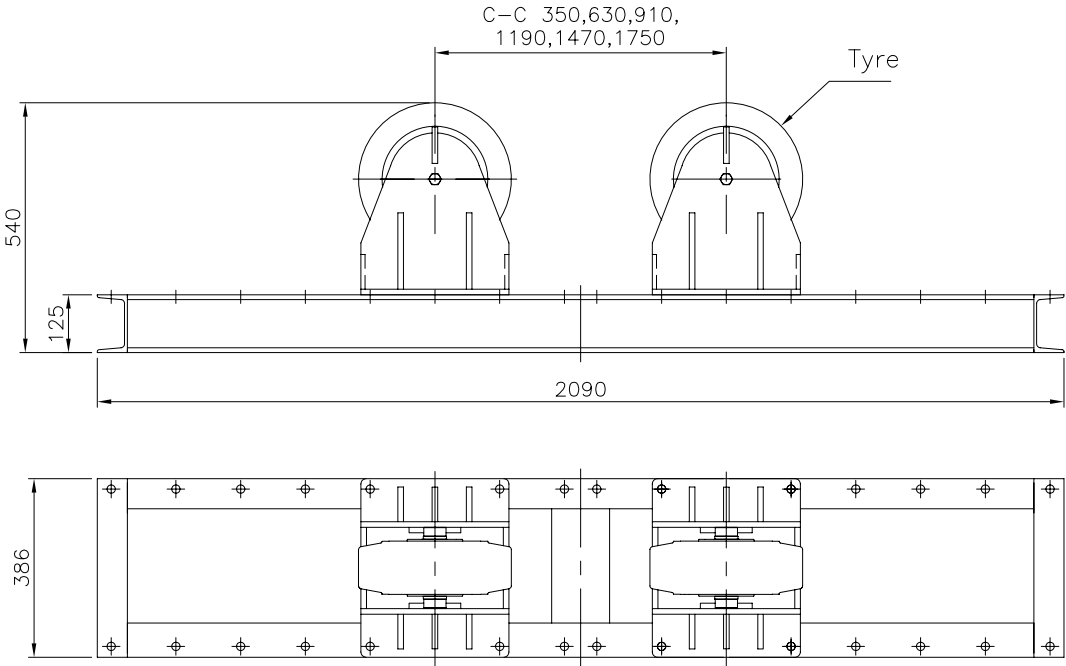




ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.

| | | | | |
|--|--|--|---|------------------|
|  A&N PLANT <small>ROTATORS - COLUMN BOOMS - POSITIONERS</small> | | | PROJECT/MODEL : PR5/7DM-XA-1750 | |
| DRAWN | | | NAME Kris | DATE 28-11-06 |
| APPROVED | | | CLIENT : - | |
| | | | DWG. NAME : ROTATOR GENERAL ARRANGEMENT | |
| | | | DWG. NO. : SD-PR5/7DM-XA-1750 | |
| | | | SCALE: N.T.S. REVISION: 0 SHEET NO: 1 OF 1 | |
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Specification for Rotator

| | | |
|----|---------------------|---|
| 1 | Model | IR5-1750 |
| 2 | Capacity (Loading) | 2.5 metric tons |
| 3 | Capacity (Turning) | N.A. |
| 4 | Vessel Size (Min.) | Ø165mm at 90° Included Angle |
| 5 | Vessel Size (Max.) | Ø6430mm at 30° Included Angle Ø4240mm at 45° Included Angle Ø3170mm at 60° Included Angle |
| 6 | Tyre Type and Size | Polyurethane, Ø13"x4-1/2" |
| 7 | Electrical Panel | N.A. |
| 8 | Travelcar (Bogie) | N.A. |
| 9 | Travelcar Speed | N.A. |
| 10 | Surface Preparation | Gritblast to SA2.5 |
| 11 | Painting | 2 Coats Zinc Phosphate, 1 Coat Polyurethane |
| 12 | Color | RAL3003 Red |
| 13 | Qty | T.B.A. |
| 14 | Est Weight | 200 KG |



| | | | | |
|--|--------------|------------------|--|--|
|  A&N PLANT <small>ROTATORS - COLUMN BOOMS - POSITIONERS</small> | | | PROJECT/MODEL : IR5-1750 | |
| CLIENT : A&N PLANT & EQUIPMENT | | |  | |
| DRAWN Kris | NAME Kris | DATE 17-04-07 | DWG. NAME : ROTATOR GENERAL ARRANGEMENT | |
| APPROVED | | | DWG. NO. : SD-IR5-1750 | |
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