



Specification Data
Conventional Rotators
Capacity: 100/150 Tonnes
MODEL: PR100/150DM

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 520mm diameter 533mm width, replaceable hard-wearing polyurethane tyres mounted onto a cast steel drum for maximum durability and superior friction.

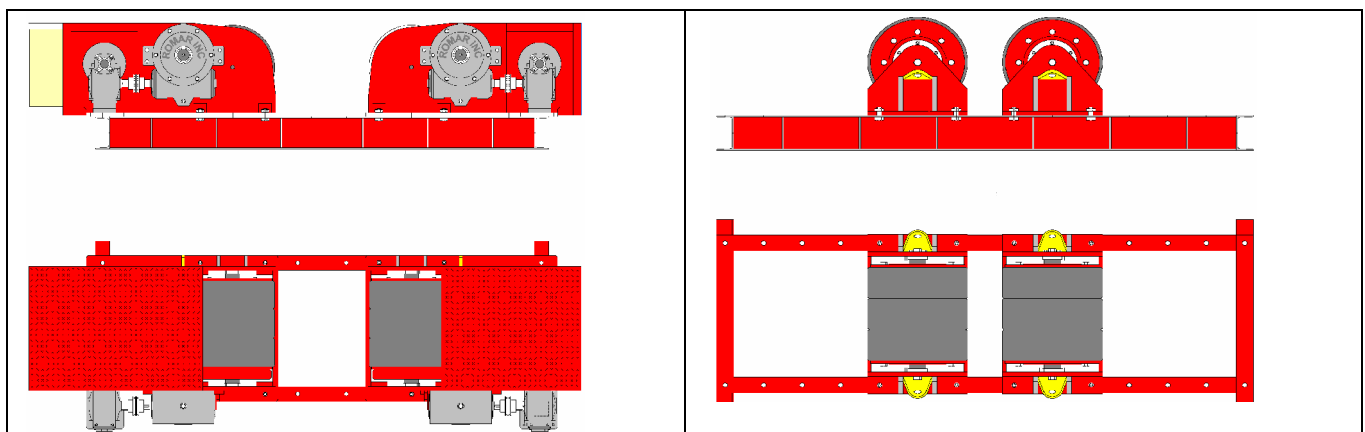
The powered drive unit drives all wheels synchronized using the AC gear motors via the latest inverter control. A hand held low voltage control pendant on a 15-metre cable provides the operator with full control of the rotator including a potentiometer for varying the speed, forward/reverse and stop.

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 dimension to match the powered drive unit. See GA drawing attached.

Power rolls specifications

| | |
|--------------------|--|
| Model: | PR 100/150 DM |
| Load Capacity: | 100 Metric ton (1 power & 1 idler) |
| Rotation Capacity: | 150 metric ton (1 power) |
| Rotation Speed: | 130 to 1295mm/min |
| Vessel diameter: | Min 995mm to Max 6193mm (at 3100mm C-C) @ 55 degree included angle |
| Incoming supply: | 400V/3Phase/32Amps/50/60/hz. (Specify input voltage when ordering) |
| AC Inverter: | 7.5KW inverter system |
| Motor rating: | 3KW x 2 |
| Control voltage: | DC 24 Volt control circuit. |
| Weight: | 3120Kg Drive Unit 1710Kg Idler Unit |



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PR100/150DM (100 Tonnes)

Guidelines for Vessel Diameter in mm (D)

| CC (mm) | Included Angle, q (in deg) | | | | | | | | | | | | |
|------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 700 | 2184 | 1807 | 1526 | 1308 | 1136 | 995 | 879 | 782 | 700 | 629 | 568 | 515 | 469 |
| 1100 | 3729 | 3137 | 2695 | 2354 | 2082 | 1862 | 1679 | 1527 | 1397 | 1286 | 1191 | 1108 | 1035 |
| 1500 | 5275 | 4468 | 3865 | 3399 | 3029 | 2728 | 2479 | 2271 | 2094 | 1943 | 1813 | 1700 | 1601 |
| 1900 | 6820 | 5798 | 5035 | 4444 | 3975 | 3594 | 3279 | 3016 | 2792 | 2600 | 2435 | | |
| 2300 | 8366 | 7128 | 6204 | 5489 | 4922 | 4460 | 4079 | 3760 | 3489 | 3257 | | | |
| 2700 | 9911 | 8458 | 7374 | 6535 | 5868 | 5327 | 4879 | 4504 | | | | | |
| 3100 | 11457 | 9788 | 8543 | 7580 | 6815 | 6193 | 5679 | | | | | | |

Vessel Clearance from Skid in mm (C)

| CC (mm) | Included Angle, q (in deg) | | | | | | | | | | | | |
|------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 700 | 519 | 511 | 503 | 495 | 487 | 479 | 471 | 463 | 455 | 446 | 438 | 429 | 420 |
| 1100 | 493 | 480 | 468 | 456 | 443 | 430 | 418 | 405 | 392 | 378 | 365 | 351 | 337 |
| 1500 | 466 | 450 | 433 | 416 | 399 | 381 | 364 | 346 | 329 | 310 | 292 | 273 | 254 |
| 1900 | 440 | 419 | 397 | 376 | 354 | 333 | 310 | 288 | 265 | 243 | 219 | | |
| 2300 | 414 | 388 | 362 | 336 | 310 | 284 | 257 | 230 | 202 | 175 | | | |
| 2700 | 387 | 357 | 327 | 296 | 266 | 235 | 203 | 172 | | | | | |
| 3100 | 361 | 326 | 292 | 257 | 221 | 186 | 150 | | | | | | |

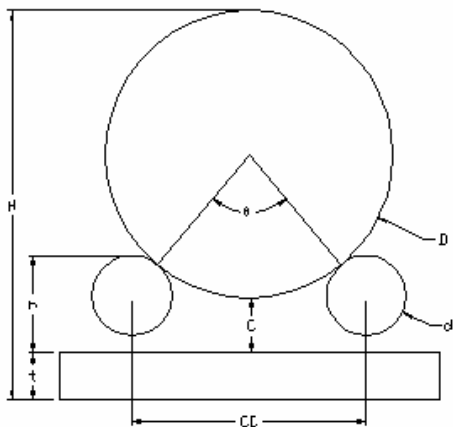
Overall Vessel Height in mm (H)

| CC (mm) | Included Angle, q (in deg) | | | | | | | | | | | | |
|------------|----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
| 700 | 2903 | 2518 | 2229 | 2004 | 1823 | 1675 | 1551 | 1445 | 1354 | 1275 | 1206 | 1144 | 1089 |
| 1100 | 4422 | 3818 | 3364 | 3009 | 2725 | 2492 | 2297 | 2131 | 1989 | 1865 | 1755 | 1659 | 1572 |
| 1500 | 5941 | 5117 | 4498 | 4015 | 3627 | 3309 | 3043 | 2817 | 2623 | 2454 | 2305 | 2173 | 2055 |
| 1900 | 7460 | 6417 | 5632 | 5020 | 4529 | 4127 | 3790 | 3504 | 3257 | 3043 | 2854 | | |
| 2300 | 8979 | 7716 | 6766 | 6026 | 5432 | 4944 | 4536 | 4190 | 3892 | 3632 | | | |
| 2700 | 10499 | 9015 | 7901 | 7031 | 6334 | 5761 | 5283 | 4876 | | | | | |
| 3100 | 12018 | 10315 | 9035 | 8037 | 7236 | 6579 | 6029 | | | | | | |

Note:

1. This chart is applicable to A&N ROTATOR using diameter 520mm (201/2") tyres.
2. Recommended Included Angle should **always** be greater the 45 degree unless vessel is true concentric.
3. Shaded portion is not recommended.

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Roller Dia. (d) = 520.7 mm
 Roller Ht. from Skid (h) = 565 mm
 Skid Ht. (t) = 200 mm

Ordering Information and system checklist

| Equipment | Part Number | Description | Qty | Price |
|---------------------------------------|--------------|---|-----|-------|
| Rotator | PR100/150DM- | 100-metric ton loading capacity / 150-metric ton turning capacity | | |
| Built-in with | EA- | 3-phase AC motor, Pendant control with 15m cable. | | |
| Base Frame Length Center to Center | 3100- | Base Frame center to center 3100mm(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 | | |

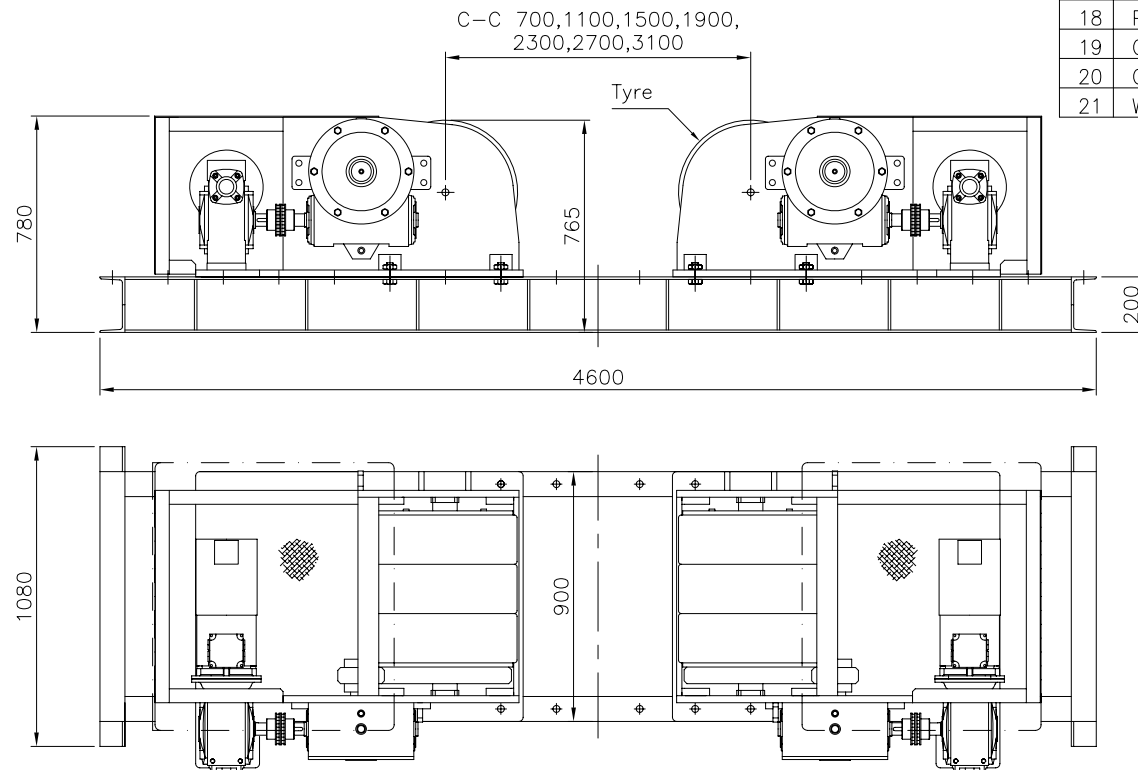
We reserve the right to alter specifications without prior notice

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PR100/150DM (100 Tonnes)

Specification for Rotator

| | | |
|----|---------------------------|--|
| 1 | Model | PR100/150DM-XA-3100 |
| 2 | Capacity (Loading) | 50 metric tons |
| 3 | Capacity (Turning) | 150 metric tons |
| 4 | Vessel Size (Min.) | ø466mm at 90° Included Angle |
| 5 | Vessel Size (Max.) | ø11457mm at 30° Included Angle ø7580mm at 45° Included Angle ø5679mm at 60° Included Angle |
| 6 | Tyre Type and Size | Polyurethane, ø20.5"x7", 3 tyres per drum |
| 7 | Electrical Panel | No |
| 8 | Roller Speed | 129 to 1295mm/min at 5 to 50Hz |
| 9 | Incoming Supply | 415V-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 3KW c/w Force Cooling |
| 14 | Forced Cooling Fan Supply | 415V-3P-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 | Weight | 2800 Kg |

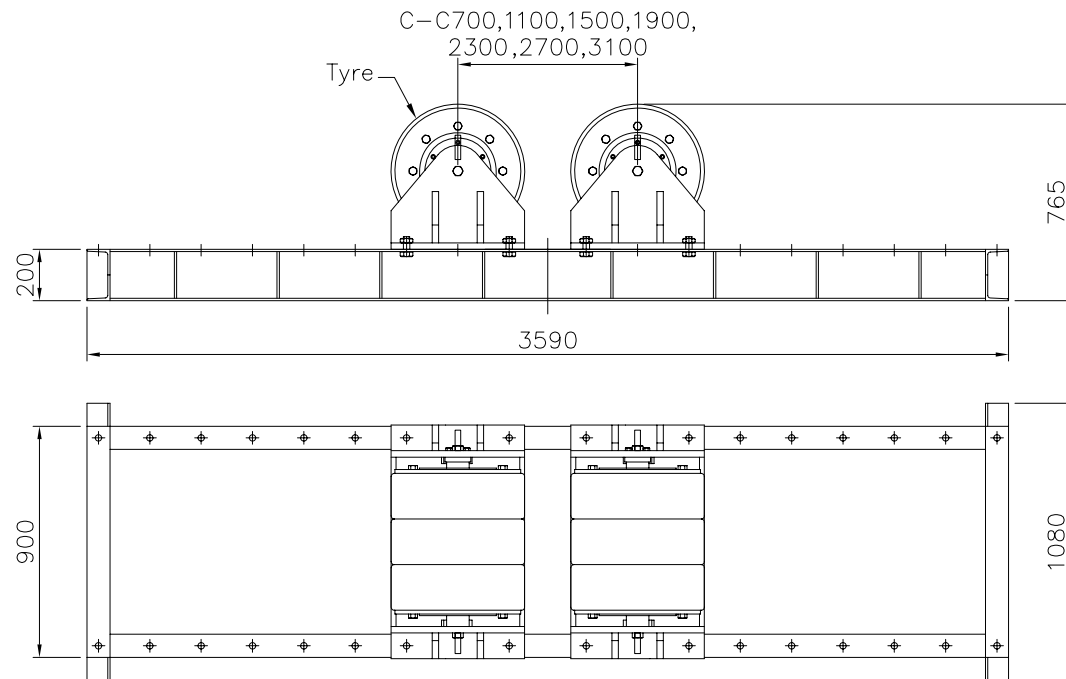


ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.


| | | | | |
|--|--|--|-------------------------|----------|
| A&N PLANT <small>ROTATORS - COLUMN BOOMS - POSITIONERS</small> | | | PROJECT/MODEL : | |
| | | | PR100/150DM-XA-3100 | |
| DRAWN | | | NAME | DATE |
| | | | Kris | 15-11-06 |
| APPROVED | | | CLIENT : | |
| | | | - | |
| | | | DWG. NAME : | |
| | | | GENERAL ARRANGEMENT | |
| | | | DWG. NO. : | |
| | | | SD-PR100/1500DM-XA-3100 | |
| | | | | |
| | | | SCALE: | |
| | | | N.T.S. | |
| | | | REVISION: | |
| | | | 0 | |
| | | | SHEET NO.: | |
| | | | 1 OF 1 | |
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Specification for Rotator

| | | |
|----|---------------------|--|
| 1 | Model | IR100-3100 |
| 2 | Capacity (Loading) | 50 metric tons |
| 3 | Capacity (Turning) | N.A. |
| 4 | Vessel Size (Min.) | ø466mm at 90° Included Angle |
| 5 | Vessel Size (Max.) | ø11457mm at 30° Included Angle ø7580mm at 45° Included Angle ø5679mm at 60° Included Angle |
| 6 | Tyre Type & Size | Polyurethane, ø20.5" x 7", 3 tyres per drum |
| 7 | Travelcar (Bogie) | No |
| 8 | Travelcar Speed | N.A. |
| 9 | Surface Preparation | Gritblast to SA2.5 |
| 10 | Painting | 2 coats Zinc Phosphate, 1 coat Polyurethane |
| 11 | Color | RAL 3003 Red |
| 12 | Qty | T.B.A. |
| 13 | Weight | 1620 Kg |



ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.

| | | | |
|---|------|-----------------|---|
|  A&N PLANT <small>ROTATORS - COLUMN BOOMS - POSTIONERS</small> | | PROJECT/MODEL : | |
| | | IR100-3100 | |
| DRAWN | NAME | DATE | CLIENT : - |
| | Kris | 24-12-06 | |
| APPROVED | | | DWG. NAME : ROTATOR GENERAL ARRANGEMENT |
| | | | DWG. NO. : SD-IR100-3100 |
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