

Weld Automation Systems

Red-D-Arc Welding Positioners, Manipulators, Turning Rolls and other weld automation products are available for sale, lease and rent through Red-D-Arc's global distribution network. All our standard weld automation products come with UL/CSA and CE certification for electrical controls and operational capacities.

Turnkey Packages

We can design and build turnkey weld automation packages with all welding and positioning equipment including integrated controls - such as digital touch-screen interfaces and camera systems - for your complete project requirements, regardless of your geographic location. Our team of engineers can also provide you with weld process recommendations as well as set up all your equipment for optimized reliability, functionality and productivity.



Automated TIG Weld Cladding Systems for Pipes and Valves

Red-D-Arc manufactures automated TIG Vertical Cladding Systems (VCS), Compact Cladding Systems (CCS), and Continuously Rotating Systems (CRS) for vertical valve cladding as well as Horizontal Pipe Cladding Systems (PCS) for horizontal pipe cladding with either a standard TIG power source for cold-wire TIG (GTAW) welding or with a pulsed TIG power source for hot-wire TIG (GTAW-P) welding when increased deposition rates are preferred. These systems are supplied as complete turn-key packages including specified power sources, wirefeeders and control systems.

Manipulators

RDA MD 6X6 NA

Capacity 441 lb (200 kg) with 6 ft vertical and 6 ft horizontal travel
Optional Travel Car
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant (up/down/in/stop/out/speed control/estop)
Push Button Pendant for Optional Travel Car (forward/stop/reverse/speed control/estop)
Weight 3306 lb (1500 kg) without travel car



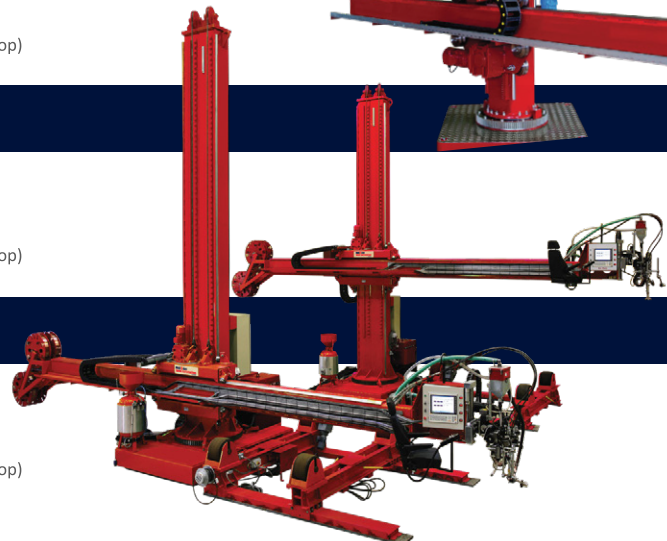
RDA MD 9X9 NA

Capacity 441 lb (200 kg) with 9 ft vertical and 9 ft horizontal travel
Optional Travel Car
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant (up/down/in/stop/out/speed control/estop)
Push Button Pendant for Optional Travel Car (forward/stop/reverse/speed control/estop)
Weight 4299 lb (1950 kg) without travel car



RDA MD 12X12 NA

Capacity 441 lb (200 kg) with 12 ft vertical and 12 ft horizontal travel
Optional Travel Car
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant (up/down/in/stop/out/speed control/estop)
Push Button Pendant for Optional Travel Car (forward/stop/reverse/speed control/estop)
Weight 6614 lb (3000 kg) without travel car



RDA HD 16X16 NA

Capacity 926 lb (420 kg) with 16 ft vertical and 16 ft horizontal travel
Optional Travel Car
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant (up/down/in/stop/out/speed control/estop)
Push Button Pendant for Optional Travel Car (forward/stop/reverse/speed control/estop)
Weight 12,125 lb (5500 kg) without travel car



Conventional Turning Rolls

RDA CR5 NA 5 ton set

Set Load Carrying Capacity 5 ton Drive Rotational Capacity 7.5 ton
Minimum Vessel Diameter 7.9 in (200 mm) @ 80° included angle
Maximum Vessel Diameter 137.8 in (3500 mm) @ 50° included angle
Wheel Type, Diameter and Size Rubber, 15 in x 3 in
Rotation Speed 5.5 to 59.1 IPM (140 to 1500 mm/min)
AC Rotation Drive Motors 1 x 0.55 kW with forced cooling
Input Power 110 V, 1 phase, 60 Hz
Push Button Pendant, 50 ft Cable (forward/stop/reverse/speed control/emergency stop)
Weight Drive 1301 lb (590 kg) Drive 1036 lb (470 kg)



RDA CR10 NA 10 ton set

Set Load Carrying Capacity 10 ton Drive Rotational Capacity 15 ton
 Minimum Vessel Diameter 13.8 in (350 mm) @ 80° included angle
 Maximum Vessel Diameter 196.9 in (5000 mm) @ 50° included angle
 Wheel Type, Diameter and Size Polyurethane, 15 in x 3 in
 Rotation Speed 5.5 to 55.1 IPM (140 to 1400 mm/min)
 AC Rotation Drive Motors 2 x 0.55 kW with forced cooling
 Input Power 110 V, 1 phase, 60 Hz
 Push Button Pendant, 50 ft Cable (forward/stop/reverse/speed/control emergency stop)
 Weight Drive 1488 lb (675 kg), Idler 882 lb (400 kg)



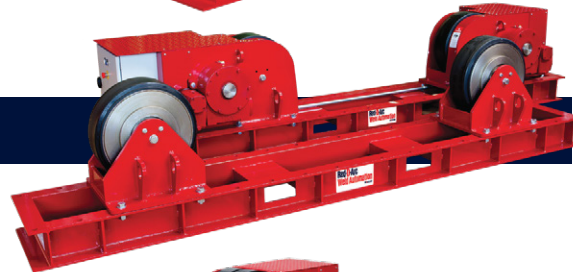
RDA CR20 NA 20 ton set

Set Load Carrying Capacity 30 ton Drive Rotational Capacity 30 ton
 Minimum Vessel Diameter 18 in (350 mm) @ 80° included angle
 Maximum Vessel Diameter 196.9 in (5000 mm) @ 50° included angle
 Wheel Type, Diameter and Size Polyurethane, 15 in x 5 in
 Rotation Speed 5.5 to 55.1 RPM (140 to 1400 mm/min)
 AC Rotation Drive Motors 2 x 0.75 kW with forced cooling
 Input Power 380 to 480 V, 3 phase, 50/60 Hz
 Push Button Pendant, 50 ft cable (forward/stop/reverse/speed/control/emergency stop)
 Weight Drive 1654 lb (750 kg), Idler 1102 lb (500 kg)



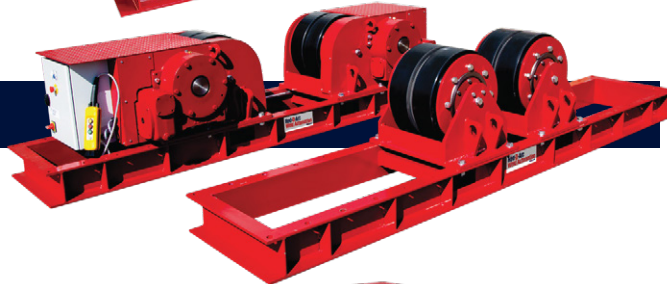
RDA CR30 NA 30 ton set

Set Load Carrying Capacity 30 ton Drive Rotational Capacity 45 ton
Minimum Vessel Diameter 22.4 in (570 mm) @ 80° included angle
Maximum Vessel Diameter 26.7 in (680 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 20.5 in x 7 in
Rotation Speed 5.1 to 51.1 IPM (130 to 1300 mm/min)
AC Rotation Drive Motors 2 x 1.1 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 50 ft Cable (forward/stop/reverse/speed/control/emergency stop)
Weight Drive 3362 lb (1525 kg), Idler 2116 lb (960 kg)



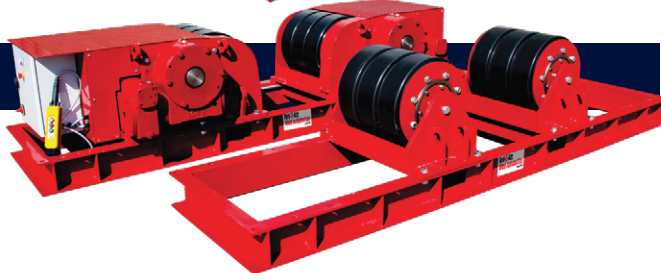
RDA CR60 NA 60 ton set

Set Load Carrying Capacity 60 ton Drive Rotational Capacity 90 ton
Minimum Vessel Diameter 22.4 in (570 mm) @ 80° included angle
Maximum Vessel Diameter 26.7 in (680 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 20.5 in x 14 in
Rotation Speed 5.1 to 51.1 IPM (130 to 1300 mm/min)
AC Rotation Drive Motors 2 x 1.5 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/emergency stop)
Weight Drive 4520 lb (2050 kg), Idler 2756 lb (1250 kg)



RDA CR100 NA 100 ton set

Set Load Carrying Capacity 100 ton Drive Rotational Capacity 150 ton
Minimum Vessel Diameter 22.4 in (570 mm) @ 80° included angle
Maximum Vessel Diameter 267.7 in (6800 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 130.5 in x 21 in
Rotation Speed 5.1 to 51.1 IPM (130 to 200 mm/min)
AC Rotation Drive Motors 2 x 2.2 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed/control/emergency stop)
Weight Drive 6173 lb (2800 kg), Idler 3528 lb (1600 kg)



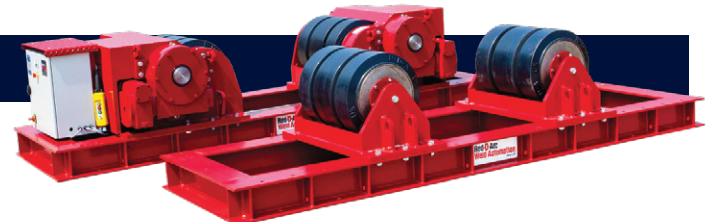
RDA CR125 NA 125 ton set

Set Load Carrying Capacity 125 ton Drive Rotational Capacity 200 ton
Minimum Vessel Diameter 22.7 in (570 mm) @ 80° included angle
Maximum Vessel Diameter 26.7 in (6800 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 20 in x 28 in x 28 in
Rotation Speed 5.1 to 51.1 RPM (130 to 1300 mm/min)
AC Rotation Drive Motors 2 x 3.0 kW with forced cooling
Input Power 380 to 480 v, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/emergency stop)
Weight Drive 7716 lb (3500 kg), Idler 4762 lb (2160 kg)



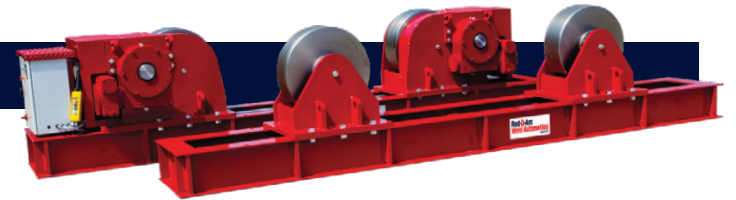
RDA CR200 NA 200 ton set

Set Load Carrying Capacity 200 ton Drive Rotational Capacity 200 ton
Minimum Vessel Diameter 217 in (550 mm) @ 80° included angle
Maximum Vessel Diameter 255.9 in (6500 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 22 in x 27 in
Rotation Speed 5.9 to 59.1 IPM (150 to 1500 mm/min)
AC Rotation Drive Motors 2 x 4.0 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed/control/emergency stop)
Weight Drive 8818 lb (4000 kg), Idler 6614 lb (3000 kg)



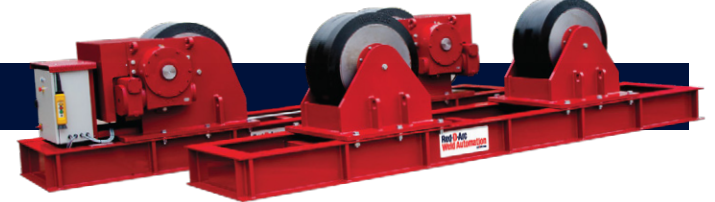
RDA CR200-S NA 200 ton set, steel wheels

Set Load Carrying Capacity 200 ton Drive Rotational Capacity 200 ton
Minimum Vessel Diameter 217 in (550 mm) @ 80° included angle
Maximum Vessel Diameter 255.9 in (6500 mm) @ 50° included angle
Wheel Type, Diameter and Size Steel, 23.6 in x 9 in (600 mm x 175 mm)
Rotation Speed 5.9 to 59.1 IPM (150 to 1500 mm/min)
AC Rotation Drive Motors 2 x 4.0 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/weight stop)
Weight Drive 6614 lb (3000 kg), Idler 4189 lb (1900 kg)



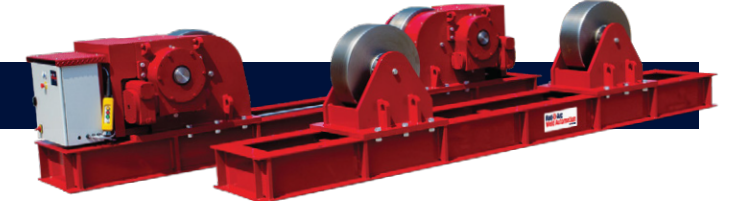
RDA CR300 NA 300 ton set

Set Load Carrying Capacity 300 ton Drive Rotational Capacity 300 ton
 Minimum Vessel Diameter 31.5 in (800 mm) @ 80° included angle
 Maximum Vessel Diameter 295.3 in (7500 mm) @ 50° included angle
 Wheel Type, Diameter and Size Polyurethane, 34 in x 16 in
 Rotation Speed 3.9 to 39.4 RPM (100 to 1000 mm/min)
 AC Rotation Drive Motors 2 x 5.5 kW with forced cooling
 Input Power 380 to 480 V, 3 phase, 50/60 Hz
 Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/emergency stop)
 Weight Drive 13,779 lb (6250 kg), Idler 9921 lb (4500 kg)



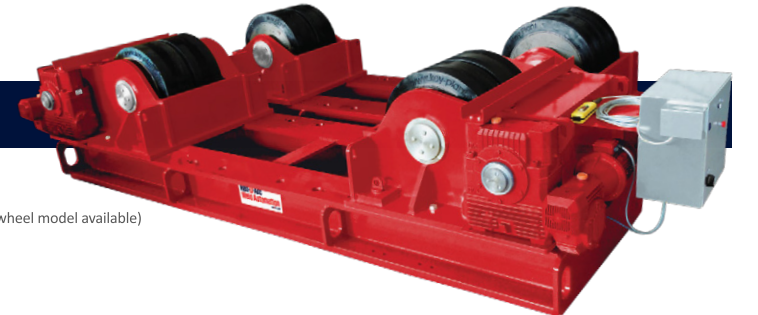
RDA CR300-S NA 300 ton set, steel wheels

Set Load Carrying Capacity 300 ton Drive Rotational Capacity 300 ton
Minimum Vessel Diameter 31.5 in (800 mm) @ 80° included angle
Maximum Vessel Diameter 295.3 in (7500 mm) @ 50° included angle
Wheel Type, Diameter and Size Steel, 27.6 in x 9.1 in (700 mm x 230 mm)
Rotation Speed 3.9 to 41.3 RPM (120 to 1050 mm/min)
AC Rotation Drive Motors 2 x 5.5 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/emergency stop)
Weight Drive 9921 lb (4500 kg), Idler 7055 lb (3200 kg)



RDA CR500 NA 500 ton set

Set Load Carrying Capacity 500 ton Drive Rotational Capacity 500 ton
Minimum Vessel Diameter 49.2 in (1250 mm) @ 80° included angle
Maximum Vessel Diameter 275.6 in (7000 mm) @ 50° included angle
Wheel Type, Diameter and Size Polyurethane, 33.9 in x 27 in (860 mm x 686 mm) (optional steel wheel model available)
Rotation Speed 3.9 to 41.3 IPM (100 to 1050 mm/min)
AC Rotation Drive Motors 2 x 7.5 kW with forced cooling
Input Power 380 to 480 V, 3 phase, 50/60 Hz
Push Button Pendant, 100 ft Cable (forward/stop/reverse/speed control/emergency stop)
Weight Drive 30,865 lb (14,000 kg), Idler 26,456 lb (12,000 kg)



Specialty Turning Rolls

Self Aligning (SA) Turning Rolls, Elevating Turning Rolls
Traversing Elevating (TE) Turning Rolls
Fit Up Bed (FUB) Turning Rolls, Anti-Drift Systems (ADS)
Pipe Shop and Special Purpose Turning Rolls



RDA FHVP5-3 NA

500 lb Positioner, fixed height

500 lb (250 kg) capacity Input Power 110 V, 1 phase, 60 Hz
 Table Rotation Speed 0.1 to 3.0 RPM
 Tilt Range 135° forward tilt, manual operation
 Fixed Table Height 23.6 in (600 mm)
 Pivot Height Settings 20.7 in (525 mm)
 Table Diameter 17.7 in (450 mm) round with four 0.59 in (15 mm) slots
 Weight 441 lb (200 kg)



RDA AHVP15-4 NA

1500 lb Positioner, adjustable height

1500 lb (700 kg) capacity Input Power 110 V, 1 phase, 60 Hz
 Table Rotation Speed 0.1 to 2.0 RPM
 Tilt Range 135° forward tilt in 30 seconds, electric operation
 Table Height Settings 25.6 in, 29.5 in, 33.5 in (650 mm, 750 mm, 850 mm)
 Pivot Height Settings 21.7 in, 25.6 in, 29.5 in (550 mm, 650 mm, 750 mm)
 Table Diameter 23.6 in (600 mm) round with four 0.59 in (15 mm) slots
 Weight 1102 lb (500 kg)



RDA AHVP30-6 NA

3000 lb Positioner, adjustable height

3000 lb (1.5 tonne) capacity Input Power 380 to 480 V, 3 phase, 50/60 Hz
 Table Rotation Speed 0.07 to 1.4 RPM
 Tilt Range 135° forward tilt in 30 seconds, electric operation
 Table Height Settings 33.5 in, 39.4 in, 45.3 in (850 mm, 1000 mm, 1150 mm)
 Pivot Height Settings 28.5 in, 34.5 in, 40.4 in (725 mm, 875 mm, 1025 mm)
 Table Diameter 36.2 in (920 mm) round with six 0.748 in (19 mm) slots
 Weight 1984 lb (900 kg) POWERED ELEVATION MODEL AVAILABLE



RDA AHVP60-6 NA

6000 lb Positioner, adjustable height

6000 lb (3.0 tonne) capacity Input Power 380 to 480 V, 3 phase, 50/60 Hz
 Table Rotation Speed 0.07 to 1.0 RPM
 Tilt Range 135° forward tilt in 40 seconds, electric operation
 Table Height Settings 41.3 in, 49.2 in, 57.1 in (1050 mm, 1250 mm, 1450 mm)
 Pivot Height Settings 36.4 in, 44.3 in, 52.2 in (925 mm, 1125 mm, 1325 mm)
 Table Diameter 48.0 in (1220 mm) round with six 0.9 in (23 mm) slots
 Weight 3241 lb (1470 kg) POWERED ELEVATION MODEL AVAILABLE



RDA AHVP100-6 NA

10,000 lb Positioner, adjustable height

10,000 lb (5.0 tonne) capacity Input Power 380 to 480 V, 3 phase, 50/60 Hz
 Table Rotation Speed 0.07 to 1.0 RPM
 Tilt Range 135° forward tilt in 60 seconds, electric operation
 Table Height Settings 47.2 in, 59.1 in, 70.9 in (1200 mm, 1500 mm, 1800 mm)
 Pivot Height Settings 40.7 in, 52.6 in, 64.4 in (1035 mm, 1335 mm, 1635 mm)
 Table Diameter 55.1 in (1400 mm) round with six 0.9 in (23 mm) slots
 Weight 6063 lb (2750 kg)



Manufacturers Series

RDA FHV220-M NA

RDA FHV440-M NA



220 lb (100 kg) horizontal load capacity
 130 lb (60 kg) vertical load capacity
 Input Power 110/240 VAC, 1 phase, 50/60 Hz
 Table Rotation Speed 0.3 to 8.0 RPM
 Tilt Range 0 - 120° forward tilt, manual operation
 Table Diameter 12.6 in (320 mm) round
 Weight 84 lb (38 kg)

440 lb (200 kg) horizontal load capacity
 280 lb (130 kg) vertical load capacity
 Input Power 110/240 VAC, 1 phase, 50/60 Hz
 Table Rotation Speed 0.3 to 8.0 RPM
 Tilt Range 0 - 120° forward tilt, hand crank operation
 Table Diameter 12.6 in (320 mm) round
 Weight 93 lb (42 kg)

RDA AHVP15-4M NA

1545 lb (0.7 tonne) capacity Input Power 110 V, 1 phase, 60 Hz
 Table Rotation Speed 0.1 to 1.75 RPM
 Tilt Range 135° forward tilt in 17 seconds, electric operation
 Table Height Settings 25.0 in, 30.9 in, 36.8 in (635 mm, 785 mm, 935 mm)
 Pivot Height Settings 21.5 in, 27.4 in, 29.3 in (545 mm, 695 mm, 745 mm)
 Table Diameter 24.0 in (610 mm) square with four 0.6 in (16 mm) slots
 Weight 772 lb (350 kg)

