



Roteck

EQUIPMENTS



7.5KW-180KW Screw Air Compressor (Fixed Speed & Variable Speed)



5
YEARS WARRANTY
On Air End Only



9001:2015

www.rroteckcompressor.com



Company Profile

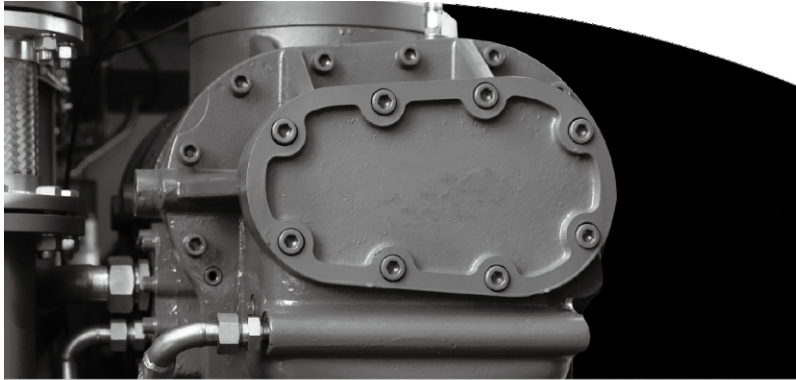
Roteck screw air compressor, a well known brand in INDIA. Roteck factory is located in Ghazibad air compressor manufacturing base. The factory has advanced assembly, production line and testing equipment to support us to develop, design and manufacture screw air compressors that comply with the regulation of ISO9001:2015 quality system, CE, Compressor industry standard. Roteck management, technical team, sales, after sales team offers professional compressor solutions and quality service to customers.

Roteck screw air compressor are widely used in each industry such as oil, chemical, electronics, garment, plastic, glass, cement, water treatment, agriculture, food, construction, jewellery etc. Models available includes fixed speed screw air compressor, variable speed screw air compressor, CPM permanent magnet variable speed screw air compressor. Product range is from 7.5~180kw

Roteck core products meet the Nation Energy Efficiency Standard.

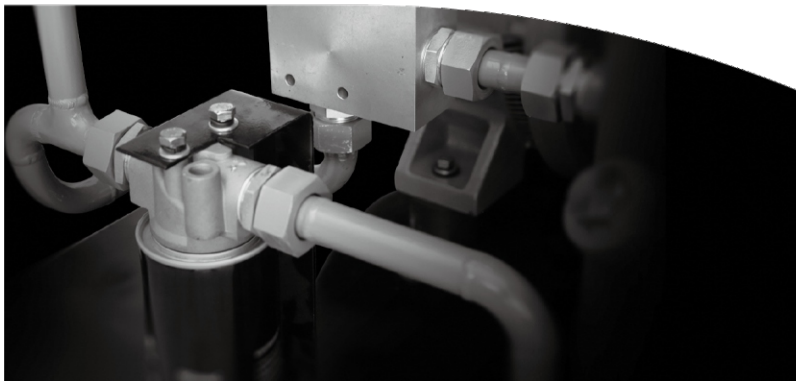


ROTECK SERVES YOU HEARTEDLY



Air-end

- High efficiency
- Best rotor speed
- Low vibration, stable and best performance
- Adopt the triple design of cylinder & taper roller bearing for longer service life



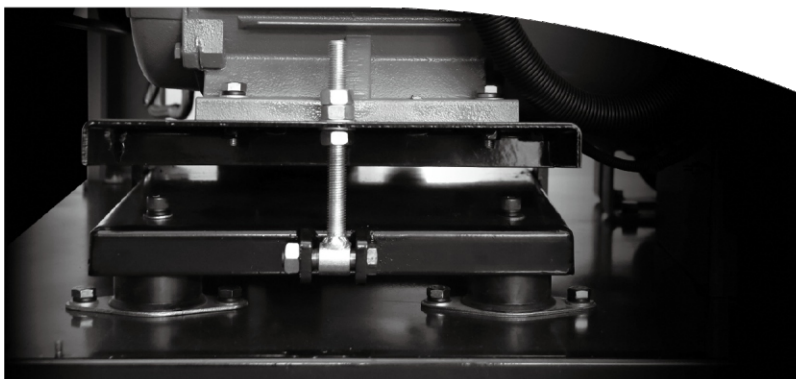
Pipe system

- Stainless steel hard pipe, stable and no aging problem
- Good heat dissipation effect
- Best sealed O ring
- No leakage problem, long service life



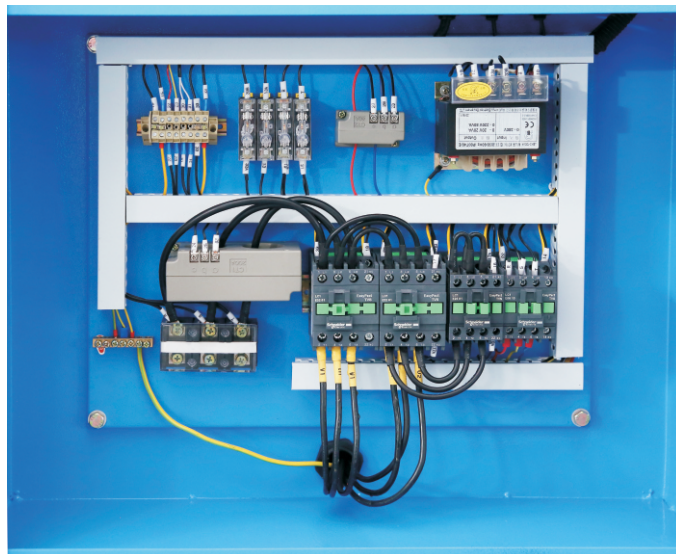
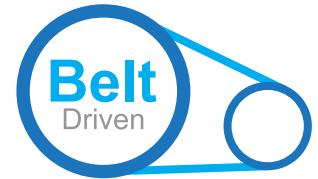
Oil filter

- High precision filter effect
- Keeps the oil system clean
- Superfine glass fibre, dust-holding capacity is 4 times bigger than filter paper
- Protects air-end, and avoids being damaged by the environment



Easy maintenance

- Belt tension easy to adjust
- Reasonable structure design, big internal volume, convenient maintenance
- No specific tool to maintain
- There are damper pads under motor and air-end, reducing noise



Intelligent Micro-Computer Control System

- International standard design.
- Intelligent micro-computer controller, automatically adjusts air compressor load & unload according to the air demand.
- Structure of electric box, easy to maintain.
- Schneider electric parts, ensures stable operation.
- Strong fault diagnosis and protection function, stable and saves energy.

Lubrication Oil

- **High antioxidant ability**, resists lubrication oil's viscosity increases, avoid carbon deposition, paint film creating and air/oil separator blockages. Prolongs the maintenance interval time. Although being used in adverse conditions, Roteck lubrication oil has higher efficiency than the normal mineral oil.
- **Wide range usage temperature**
Roteck lubrication oil runs smoothly and efficiently under higher oil temperature and higher discharge temperature conditions, or in the low temperature conditions. Roteck lubrication oil maintains its functionality.
- **Lower volatility**
Roteck lubrication oil has lower volatility than normal mineral oil which reduces the oil consumption and improves the quality of compressed air.
- **High quality**
Roteck lubrication oil is suitable for use in adverse conditions.



PLC Control System

- The systems display will show on the controller, system with maintenance reminds, fault alarm and safety shutdown function.
- PLC control system can be diagnosed and protected by it self.
- PLC control system had block control and remove control function(optional).



Technical Parameters(Belt Driven)



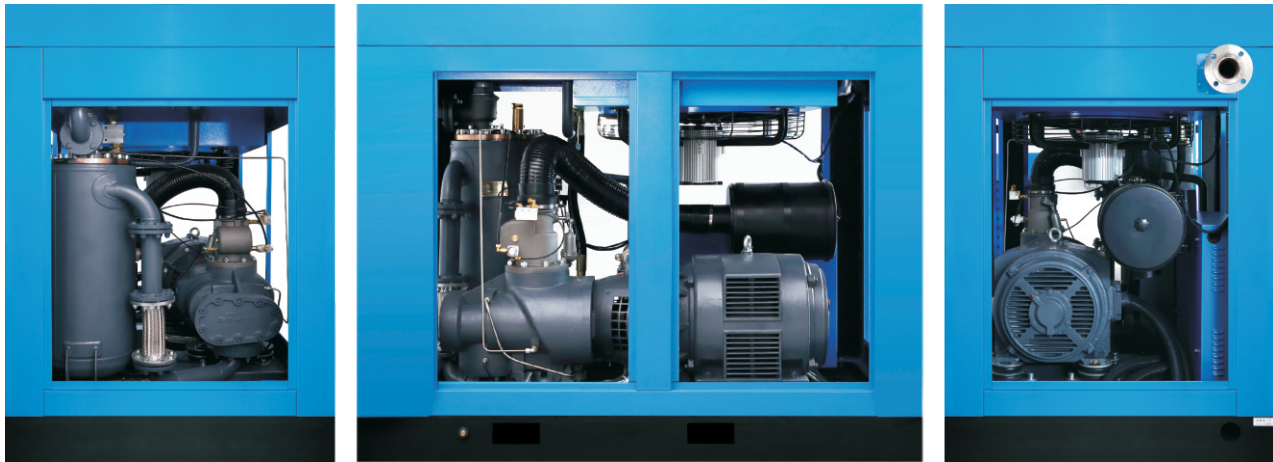
Model	Max Working Pressure		F.A.D CFM	Motor Power		Connection	Net Weight kgs	Dimension (L*W*H) mm
	bar	psig		hp	kw			
RB7.5 B-7	7	102	42	10	7.5	G1/2"	220	850x600x850
RB7.5 B-8	8	116	38					
RB7.5 B-10	10	145	35					
RB7.5 B-12.5	12.5	182	28					
RB11 B-7	7	102	63	15	11	G3/4"	280	850x600x950
RB11 B-8	8	116	60					
RB11 B-10	10	145	52					
RB11 B-12.5	12.5	182	45					
RB15 B-7	7	102	88	20	15	G1"	380	950x870x1230
RB15 B-8	8	116	84					
RB15 B-10	10	145	77					
RB15 B-12.5	12.5	182	60					
RB18.5 B-7	7	102	113	25	18.5	G1"	500	950x870x1230
RB18.5 B-8	8	116	105					
RB18.5 B-10	10	145	95					
RB18.5 B-12.5	12.5	182	81					
RB22 B-7	7	102	134	30	22	G1"	540	950x870x1230
RB22 B-8	8	116	130					
RB22 B-10	10	145	113					
RB22 B-12.5	12.5	182	95					

- Compressor Stage: One Stage Compression
- Standard Power Supply: 440V/50Hz/3Ph
- Exhaust Temperature: Ambient Temperature + 15 °c
- Please contact us for any specification that is not within the above mentioned standards.

Direct Driven

- Motor connects with the air-end male rotor directly by the coupling, eliminating the need to use the gear box, this design greatly improves the transmission efficiency. Roteck produces 1:1 energy transfer direct driven screw air compressor.
- Roteck screw air compressors are stable and reliable, with minimal vibration, offering continuous smooth compressed air to users.
- The compressor design temperature is according with the high temperature (46°C) and high humidity situation, this design avoids the possibility of shutdowns caused by the high temperatures.
- Silent case type, low noise & low vibration. Intelligent control system, Roteck are mechanical and electrical integrated screw air compressors.





Technical Parameters(Direct Driven)

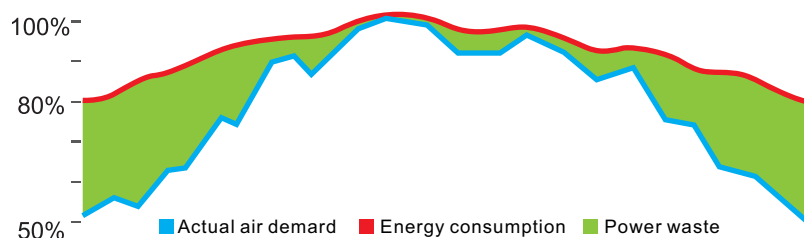
Model	Max Working Pressure		F.A.D	Motor Power		Connection	Net Weight	Dimension (L*W*H)
	bar	psig		hp	kw			
RA11 B-8	8	116	63	15	11	G1"	450	1410x850x1135
RA11 B-10	10	145	53					
RA15 B-8	8	116	90	20	15	G1"	520	1410x850x1135
RA15 B-10	10	145	78					
RA18.5 B-8	8	116	112	25	18.5	G1"	540	1410x850x1135
RA18.5 B-10	10	145	96					
RA22 B-8	8	116	132	30	22	G1"	560	1410x850x1135
RA22 B-10	10	145	114					
RA30 B-8	8	116	188	40	30	G1-1/2"	650	1530x930x1255
RA30 B-10	10	145	168					
RA37 B-8	8	116	228	50	37	G1-1/2"	740	1530x930x1255
RA37 B-10	10	145	205					
RA45 B-8	8	116	270	60	45	G1-1/2"	800	1530x930x1255
RA45 B-10	10	145	248					
RA55 B-8	8	116	363	75	55	G1-1/2"	1180	1800x1125x1430
RA55 B-10	10	145	326					
RA75 B-8	8	116	490	100	75	G2"	1470	2000x1300x1600
RA75 B-10	10	145	440					
RA90 B-8	8	116	582	120	90	G2"	1950	2130x1400x1750
RA90 B-10	10	145	492					
RA110 B-8	8	116	715	150	110	DN65	2450	2550x1550x1900
RA110 B-10	10	145	647					
RA132 B-8	8	116	860	180	132	DN65	2500	2550x1550x1900
RA132 B-10	10	145	773					

- Compressor Stage: One Stage Compression
- Standard Power Supply: 440V/50Hz/3Ph
- Exhaust Temperature: Ambient Temperature + 15 °c
- Please contact us for any specification that is not within the above mentioned standards.

VSD Screw Air Compressor Save your energy costs!

Electricity cost is over **80%** of the air compressors operating cost. The electricity cost of the air compressor is 40% of the factories total electricity cost. When your screw air compressor is unloading, it continues to consume electric power but gives you nothing in return.

To save your energy cost, Roteck integrates the Variable Speed Drive (VSD) technology into the air compressor which greatly saves energy and protects the environment.



Use VSD
Average save energy

35%

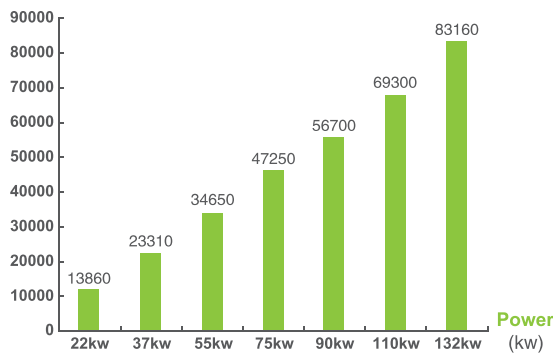
Why choose ROTECK Variable Speed Screw Air Compressor?



- On average 35% energy savings during air demand fluctuations, Inverter controls the motor to deliver the exact air volume.
- No compressed air wasted during unload, no air leakage problem when in normal operation.
- VSD startings lows down the impact of electric network when starting.
- Reduce the leakage rate due to the lower system pressure.
- Perfect match between the air compressor and the inverter.
- Fitted with "VSD" and "Fixed speed" selector switch, unit can be reverted to normal fixed speed operation if the inverter is faulty or under repair, not affect the production efficiency.

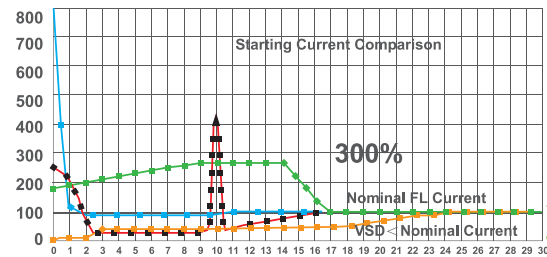
Energy saving rate is the leader of industry. The highest energy saving rate is **35%**.
Generally you can get your investment cost within **2years**

Energy-saving (kwh/year)



Energy saving for different power air compressors
(Annual operating hours: 6000hours, loading rate is 70%)

% Full Load Current



The starting current is greatly improved

Technical Parameters(VSD)

Model	Max Working Pressure		F.A.D CFM	Motor Power		Connection	Net Weight kgs	Dimension (L*W*H) mm
	bar	psig		hp	kw			
RV7.5B-8	8	116	10~38	10	7.5	G1/2"	270	1060x600x950
RV11 B-8	8	116	17~60	15	11	G3/4"	315	1060x600x950
RV15 B-8	8	116	28~84	20	15	G1"	550	1420x850x1135
RV22 B-8	8	116	35~127	30	22	G1"	590	1410x850x1135
RV37 B-8	8	116	63~218	50	37	G1-1/2"	780	1530x930x1255
RV55 B-8	8	116	105~353	75	55	G1-1/2"	1250	1800x1125x1430
RV75 B8	8	116	137~459	100	75	G2"	1550	2000x1300x1600
RV90 B-8	8	116	211~565	120	90	G2"	2000	2130x1400x1750
RV110 B-8	8	116	282~706	150	110	DN65	2500	2550x1550x1900
RV132 B-8	8	116	339~847	180	132	DN65	2550	2550x1550x1900

- Compressor Stage: One Stage Compression
- Exhaust Temperature: Ambient Temperature + 15 °C
- Please contact us for any specification that is not within the above mentioned standards.
- Standard Power Supply: 440V/50Hz/3Ph

Refrigerated Air Dryer



Technical Parameters

Model	Air capacity	Compressor Power	Power Supply	Air Connection	N.W.	Dimension(L×W×H)
--	CFM	hp	V/hz/ph	--	kg	mm
RD10B	64	0.35	220v/50hz/1ph	DN20(G3/4")	55	400x700x640
RD20B	99	0.5	220v/50hz/1ph	DN25(G1")	65	400x700x780
RD30B	137	0.75	220v/50hz/1ph	DN25(G1")	68	400x700x780
RD40B	194	1.25	220v/50hz/1ph	DN40(G1-1/2")	90	500x860x880
RD50B	240	1.5	220v/50hz/1ph	DN40(G1-1/2")	95	500x860x880
RD60B	311	2	220v/50hz/1ph	DN50(G2")	130	700x860x1000
RD75B	406	2.5	220v/50hz/1ph	DN50(G2")	135	700x860x1000
RD100B	494	3	220v/50hz/1ph	DN65(G2-1/2")	160	700x1000x1000
RD125B	565	4	415v/50hz/3ph	DN65(G2-1/2")	165	700x1000x1000
RD150B	805	5	415v/50hz/3ph	DN80(F3)	250	700x1300x1160
RD200B	1007	6	415v/50hz/3ph	DN80(F3)	300	700x1300x1160
RD300B	1236	8	415v/50hz/3ph	DN80(F3)	400	1700x1000x1260
RD350B	1589	10	415v/50hz/3ph	DN100(F4)	500	2000x1000x1260
RD400B	1943	12.5	415v/50hz/3ph	DN100(F4)	600	2200x1000x1480

Operating Range:

◆ Working Pressure: 0.6-1.3Mpa(normal type)
3.0-4.0Mpa(high pressure type)

◆ Ambient Temperature: 5-45℃

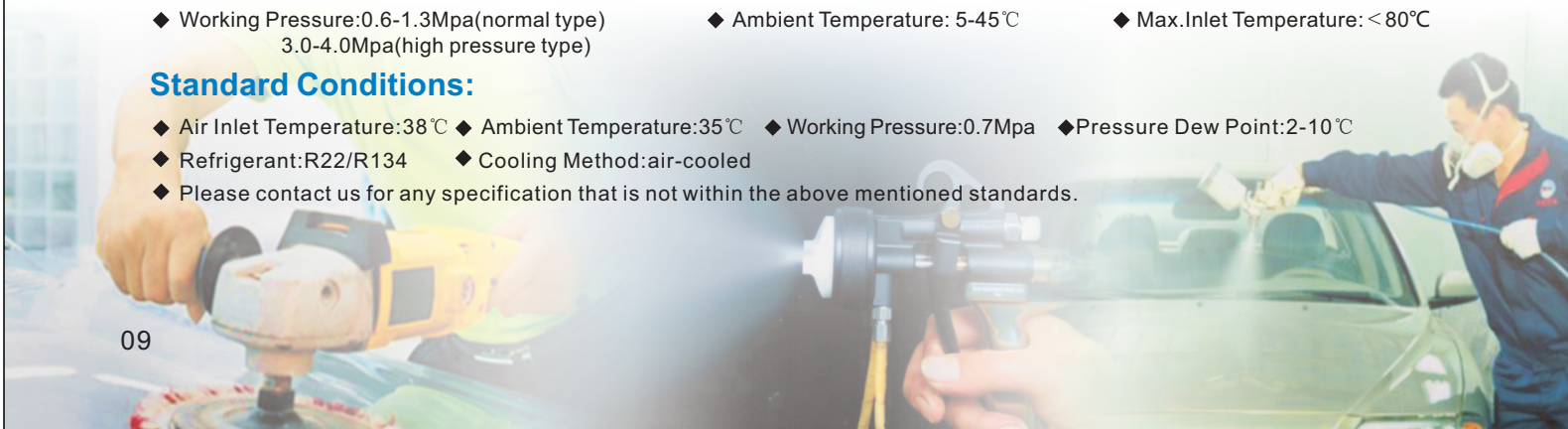
◆ Max.Inlet Temperature: < 80℃

Standard Conditions:

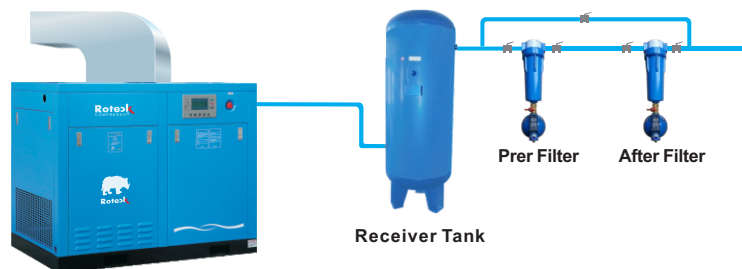
◆ Air Inlet Temperature: 38℃ ◆ Ambient Temperature: 35℃ ◆ Working Pressure: 0.7Mpa ◆ Pressure Dew Point: 2-10℃

◆ Refrigerant: R22/R134 ◆ Cooling Method: air-cooled

◆ Please contact us for any specification that is not within the above mentioned standards.



Flow Chart

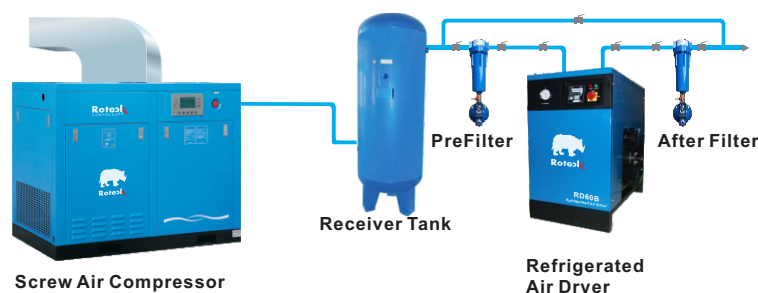


Efficiency

Get rid of 99% moisture contents
Oil content: 0.01ppm
Dust content: <1 μ m

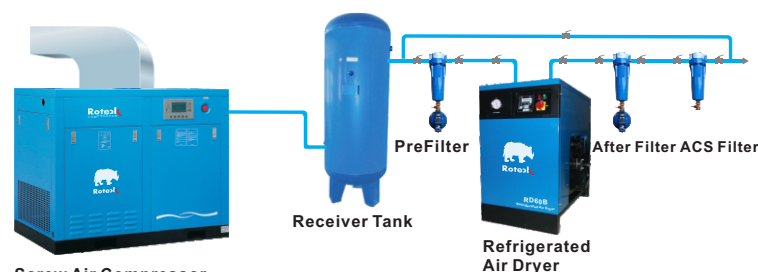
Application Range

For swept, general
cool and package



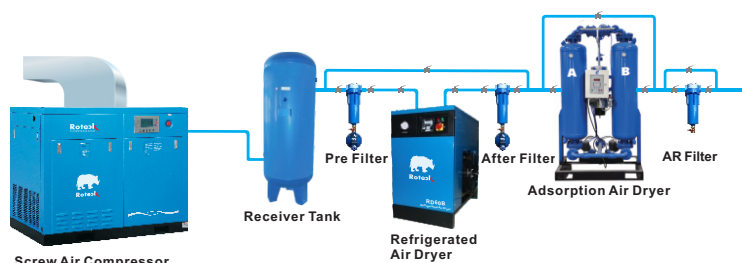
Pressure dew point: 2~10 $^{\circ}$ C
Oil content: 0.01ppm
Dust content: <0.01 μ m

For spray paint,
pneumatic instrument,
pneumatic tool, sand
blasting, air move and
mix, particles products
convey



Pressure dew point: 2~10 $^{\circ}$ C
Oil content: 0.003ppm
Dust content: <0.01 μ m

For diving operation,
breathable air, food
compound, dentistry,
cosmetics, hyperbaric
oxygen chamber



Pressure dew point: -20~-70 $^{\circ}$ C
Oil content: 0.001ppm
Dust content: <0.01 μ m

For print, film industry,
nuclear industry,
aerospace industry,
precision control
instrument



Pressure dew point: -20~-70 $^{\circ}$ C
Oil content: 0.003ppm
Dust content: <0.01 μ m

For bioengineering,
fermentating food

QUALITY & SERVICE GUARANTEED



7.5KW-180KW

**Oil-injected Rotary
Screw Air Compressor**



Roteck Equipment Limited

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Mob : 9845546558

East

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Near Candni Metro Station, Kolkata,
West Bengal.
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Gujrat
Pin : 382330
Mob.: 9426702671

Dealer

Branch Office:

Delhi, Ahmedabad, Mumbai, Bangalore,
Kolkata, Ludhiana, Kanpur, Rudrapur.

Dealer Network:

All Over India, More Than 60 Locations.

