

### **traction rotary screw air compressor for iron ore mining**

Traction rotary screw air compressor is a kind of mobile compressed air equipment with delicate design and powerful function. It is not only small and highly maneuverable, but also has low maintenance cost and high cost performance, suitable for long time operation in various harsh environments.

With advanced technology and excellent performance, the traction rotary screw air compressor is widely used across mining, construction, infrastructure, and other industries, delivering stable and efficient air compression solutions for a variety of demanding applications.



## Features of Traction Rotary Screw Air Compressor

1. **Compact size & flexible mobility:** Traction design allows for easy movement, enabling the compressor to adapt to different construction sites and work environments.
2. **High-efficiency two-stage compression:** Utilizes a two-stage screw mainframe for superior compression efficiency, lower power consumption, and high energy utilization.
3. **Strong stability:** Large rotor and low-speed design guarantee stable operation in complex conditions such as high temperature, cold, dust, and high altitude.
4. **Advanced control system:** Integrated interface with comprehensive protection and global remote monitoring, allowing users to monitor equipment status anytime, anywhere.
5. **High cost-effectiveness:** Low procurement and maintenance costs make it suitable for projects of all sizes.

## Working Principle

The traction rotary screw air compressor compresses air using two helical rotors inside the screw mainframe. As the rotors rotate, air is captured and compressed in two stages: first by the primary screw, then further by the secondary screw, resulting in high-pressure output. The large rotor and low-speed design ensure smooth, reliable, and energy-efficient operation.

## Application Areas

- **Mine blasting:** Supplies high-pressure air for ore crushing, drilling, and blasting operations.
- **Hydroelectric power plant construction:** Provides compressed air for equipment start-up and operation during construction.
- **Infrastructure construction:** Powers various tools and machinery in roads, bridges, highways, and other major projects.
- **Non-excavation down-hole drilling:** Supports geological and underground engineering with stable compressed air supply.
- **Heavy machinery & equipment:** Ensures efficient operation of a wide range of construction equipment.

Model	B1200D-35T	B750D-21T	B900D-13T	B493D-14T	B493D-14TA
Stage	two			single	
Air Capacity	1200CFM	750CFM	900CFM	493CFM	
Air Capacity	34.0m3/min	21.2m3/min	25.5m3/min	14.0m3/min	
Working Pressure	35bar	21bar	13bar	14bar	
Screw oil	145L,38gal	80L,21gal		50L,13gal	
Diesel engine	scania	volvo			kubota
Engine model	DC16-314A	TAD883VE	TAD883VE	TAD582VE	V5009
Power	650HP,478kw	320HP,235kw		218HP,160kw	207.9HP,155
Rated,Idle speed	1850rpm,1350rpm	1800rpm,1350rpm	1900rpm,1350rpm	2100rpm,1350rpm	2100rpm,135
Emission	EU stage V, Tier 4 final				

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Battery voltage	24V				
Fuel tank	1200L,317 gal	700L,185 gal		200L,53 gal	220L,58 gal
Adblue tank	70L, 18gal	45L, 12gal	45L, 12gal	25L, 7gal	20L, 5gal
Connector	3/4"x1, 2"x1				
Weight	8000kg	4300kg	4000kg	3300kg	3500kg
Dimension(LxWxH)	5370x2200x2850mm	4040x2030x2250mm	4040x2030x2250mm	4350x2150x2100mm	5290x2160x2
Noise	83dB	76dB			
Working temperature	-10°C to +55°C(Other temperatures can be customized)				