



Portable Screw Compressors 10 – 25 m³/min



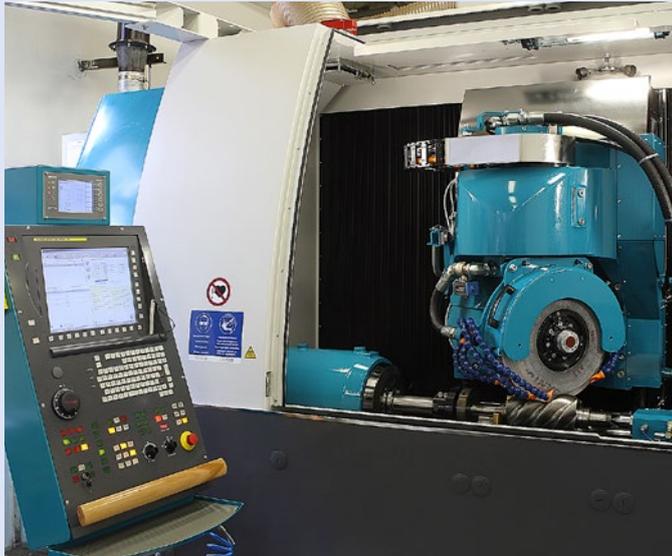
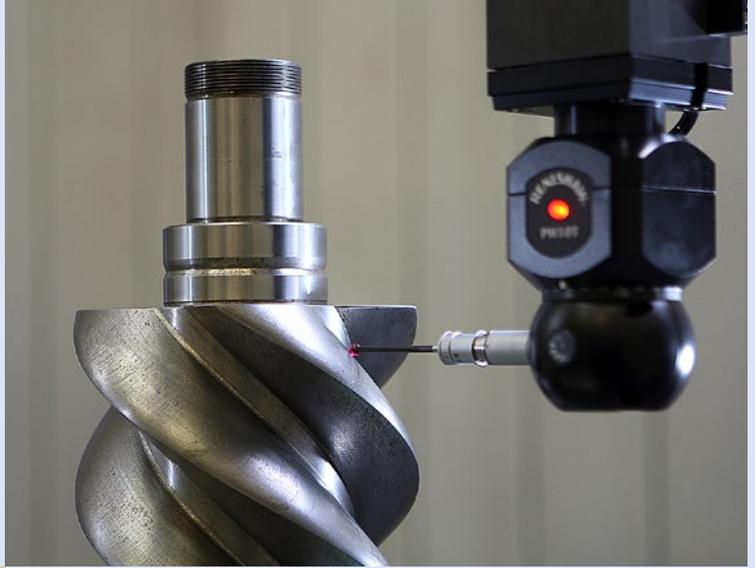
PDP95 | PDP100 | PDP190 Neo | PDP190

enough air for everyone

Tradition in manufacturing

Our Industrial tradition is the cornerstone on which we have built our company. Atmos has been engaged in engineering and production of compressors for more than 125 years. The first compressors which were powered by diesel engines left the assembly line in 1955.

Today, we are one of the 5 remaining full-liners in the EU, who manufactures a range of mobile compressors between 1 and 25 m³/min. We also produce an energy efficient range of stationary electric compressors, between 4 and 110 kW.



Atmos own air-ends, separator vessels and other components

- The screw air-end is a key element of every portable compressor
- For more than 40 years Atmos have machined and produced their own air ends in our own factory, precision tolerances in the range 0.001 mm are essential when machining air-ends
- Our exceptional quality is due to investment in the best machine-tools and co-ordinate measuring machines to check and verify the precision of manufacturing
- We produce our own separator vessels with a new welding robot. These are not only integrated into our own compressors, but sold to several blue-chip European OEM partners.
- Many other components are also manufactured by ourselves. This enables us to produce highest quality and avoid lead times. Remaining components are either sourced from local partners in the Pilsen region, or from European suppliers.

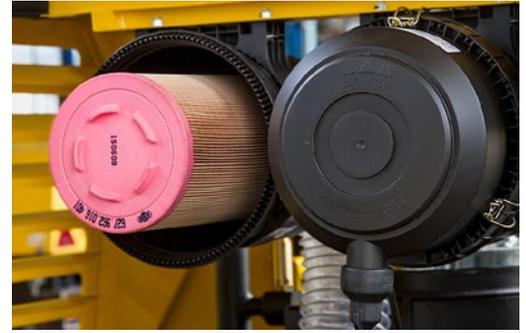
Portable compressors 10–25 m³/min



Designed for extreme conditions



- frosts in Siberian tundra
- startup even during extreme low temperatures (-40°C) due to newly developed technologies
- corrosive environment of seaside areas of South America
- extreme temperatures of Arabian peninsula
- filters and separators which are designed specially for dusty environments



Engines

- diesel engines from renowned leading brands
- established global service network
- exceptional lifetime thanks to correct match of engine and air-end

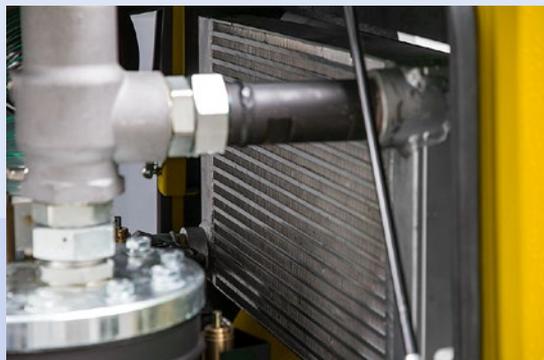


Control system

- Modern controller with display of all current operating data
- Many parameters can be adapted to individual user or environment, for example setting of engine preglow times in winter and summer
- It co-ordinates engine rpm's according to actual air delivery
- Therefore maximum power optimization, resulting in low fuel consumption

Available options

- The compressors can be configured for all existing applications.
- Operating pressures from 7 to 14 bar
- Compressed air quality as required: lubricated, dry and/or oil-free.
- Available for different ambient temperatures – from Arctic (-40°C), through cold environment (-20°C) to continental version ($+45^{\circ}\text{C}$)



Portable Screw Compressor PDP190

Heart of a mobile compressor

- Robust compression unit
- Guaranteed durability and reliability
- High energy efficiency

Optimally sized engine

- Driven by 6-cylinder engine
- Sufficient power reserve
- Low fuel consumption
- Robust engine



Excellent serviceability

Body of the machine allows a very convenient service access from all sides (including from above). Of particular importance is therefore the possibility of easy maintenance of the high-performance coolers that require regular maintenance in dusty environments. The fuel tank provides the necessary amount of fuel to work for one full shift without interruption.

PDP190

- Robust compression unit with high energy efficiency
- Low consumption of fuel due to the innovative design of the control unit and control
- Low weight and easy manoeuvrability on the workplace
- Complete proposal of optional accessories needed
- Optimum access to all service points



Control unit

- the core of the aggregate is the PDP190 control unit
- optimal and error-free operation of the machine
- intuitive digital display with simple control displays the operational status of the compressor:
 - temperature and pressure values in the circuit of a screw compressor
 - temperature and pressure values in the engine circuit
 - engine speed (required and actual)
 - service intervals
 - fuel level in the tank
 - battery voltage
 - non-standard conditions history
- smooth start of the aggregate without excessive vibration
- remote machine control



Machine for extreme conditions

- weight under 3500 kg thanks to the innovative engineering design
- uniaxial undercarriage for easy manoeuvrability in confined spaces

Easily manoeuvrable machine

- highest quality components used for the machine construction
- corrosion-resistant body protected by powder baked enamel coated on cathophoretic treated sheet
- heavy duty filter
- cooling for extreme temperature

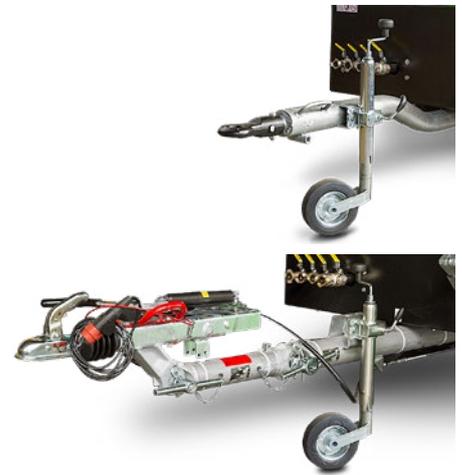
Optional accessories

- A rich variety of undercarriages including the version on skid
- Aftercooler with effective filtration and drain of condensate
- Additional preheat of the diesel engine for starts at low temperatures
- Spark arrestor and chalywn valve



Available options

- All machines are supplied on trailers from Knott (Germany). We offer different fixed/height-adjustable and unbraked/braked variants.
- For installation on trucks, we can supply the compressor on a frame, and for use in mines on skids. All frames also have pockets for forklift trucks



Optional Accessories

	PDP95	PDP100	PDP190 NEO	PDP190
Tool lubricator	✓	✗	✗	✗
Aftercooler, water trap	✓	✓	✓	✓
Winter packet	✓	✓	✓	✓
HA version	✓	✓	✗	✓
Towing eye	✓	✓	✓	✓
Ball-hitch	standard	standard	standard	standard
Special colour	✓	✓	✓	✓
Spark arrestor	✓	✓	✓	✓
Hose reel	✓	✓	✓	✓
10 bar version	✓	✓	✓	✓
12 bar version	✓	✓	✗	✓
14 bar version	✓	✓	✗	✓

Technical parameters

		PDP95	PDP100	PDP190 NEO
Free air delivery	[m³/min]	11 / 9.8 / 8.8 / 7.8	12 / 11 / 10 / 9	23
	[litres/sec]	183 / 163 / 147 / 125	200 / 183 / 166 / 150	383
Working overpressure	[bar]	7 / 10 / 12 / 14	7 / 10 / 12 / 14	10
Engine		Perkins 1104A-44T	Perkins 1104D-E44TA	Perkins 1106D-E70TA
Weight	[kg]	1800	2500	3365
Engine rated power	[kW]	82	106	186
Engine rated speed	[rpm]	2400	2200	2200

		PDP190
Rated air delivery	[m³/min]	24.8 / 21.3 / 19 / 17.2
	[cfm]	875 / 750 / 680 / 660
	[litres/sec]	413 / 355 / 317 / 287
Overpressure	[bar]	8.6 / 10 / 12 / 14
	[psi]	125 / 150 / 175 / 200
Engine		Perkins 1106D-E70TA
Weight	[kg]	3490
Rated power	[kW]	186
Engine speed load/offload	[rpm]	2200/1350



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