



Portable Screw Compressors 2 – 7.6 m<sup>3</sup>/min



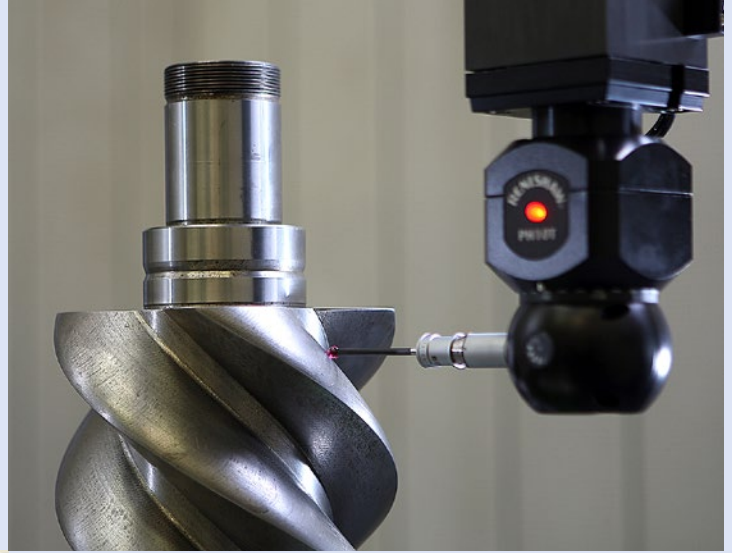
PDP20 | PDP50 | PDH76

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 m<sup>3</sup>/min that complies with Stage V emission regulations. 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 2–7.6 m<sup>3</sup>/min



## Designed for extreme conditions



- Startup even in extremely low temperatures ( $-40^{\circ}\text{C}$ ) due to several cold start options
- Corrosive environment of coastal areas in South America
- Extremely hot temperatures on Arabian peninsula
- Dusty environment like the Sahara, because of specially designed filters and separators



## Engines

- Diesel engines from renowned leading brands
- Established global service network
- Exceptional lifetime thanks to ideal match of engine and air-end
- All our engines are fully Stage 5 compliant. This implies that all our compressors with engines between 19 and 55 kW are equipped with a diesel particle filter (DPF)
- Our strongest compressor in this mid-range, the PDH76, delivers the maximum air with a 54.5 kW Hatz engine. So while it is equipped with DPF, it needs no AdBlue system. It is therefore a very attractive alternative.
- The low engine speed of all Atmos compressors results in long lifetime, low fuel consumption and reduced sound for jobs in urban areas

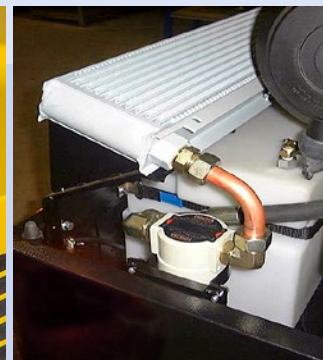
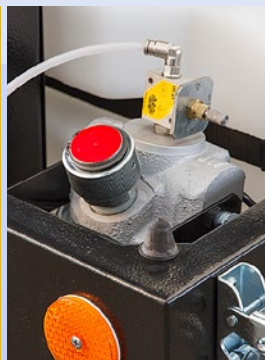


## Control system

- 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

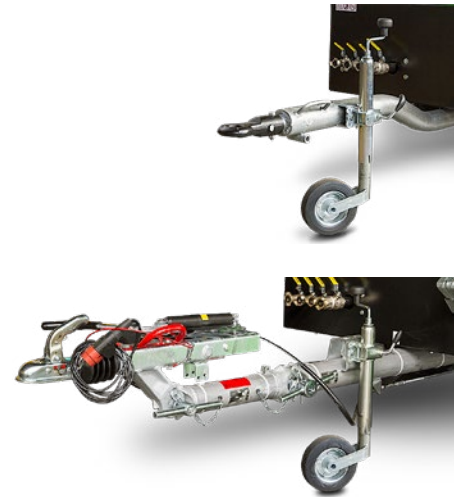
## Available options

- 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 ( $-40^{\circ}\text{C}$ ), through cold environment ( $-20^{\circ}\text{C}$ ) to continental version ( $+45^{\circ}\text{C}$ )



## 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



## Available options

	PDP20.1	PDP50	PDH76
Tool lubricator	✓	✓	✓
Aftercooler, water trap	✓	✓	✓
Winter packet	✓	✓	✓
Towing eye	✓	✓	✓
Ball-hitch	standard	standard	standard
Special colour	✓	✓	✓
Spark arrestor	✗	✓	✓
Particulate filter DPF	✓	standard	standard
Microfilter	✓	✓	✓
Hose reel	✓	✓	✓
10 bar version	✓	✓	✓
12 bar version	✗	✓	✓
14 bar version	✓	✓	✓

## Technical parameters

		PDP20.1	PDP50	PDH76
Free air delivery	[m <sup>3</sup> /min]	2.9 / 2.5 / 1.9	5 / 4 / 3	7.6 / 6.5 / 5.9 / 5.5
Working overpressure	[bar]	7 / 10 / 14	7 / 10 / 14	7 / 10 / 12 / 14
Engine		Perkins 403J-11	Perkins 403J-E17T	Hatz 4H50 TICD
Standard weight	[kg]	690	750	1140
Engine rated power	[kW]	18.9	36	54.5
Engine rated speed	[rpm]	3400	2400	2300

\* The manufacturer reserves the right to change technical data without prior notice.

\*\* Standard weight refers to the operating weight of the machine in standard equipment; it may vary depending on special equipment.



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