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O S S E R I E S

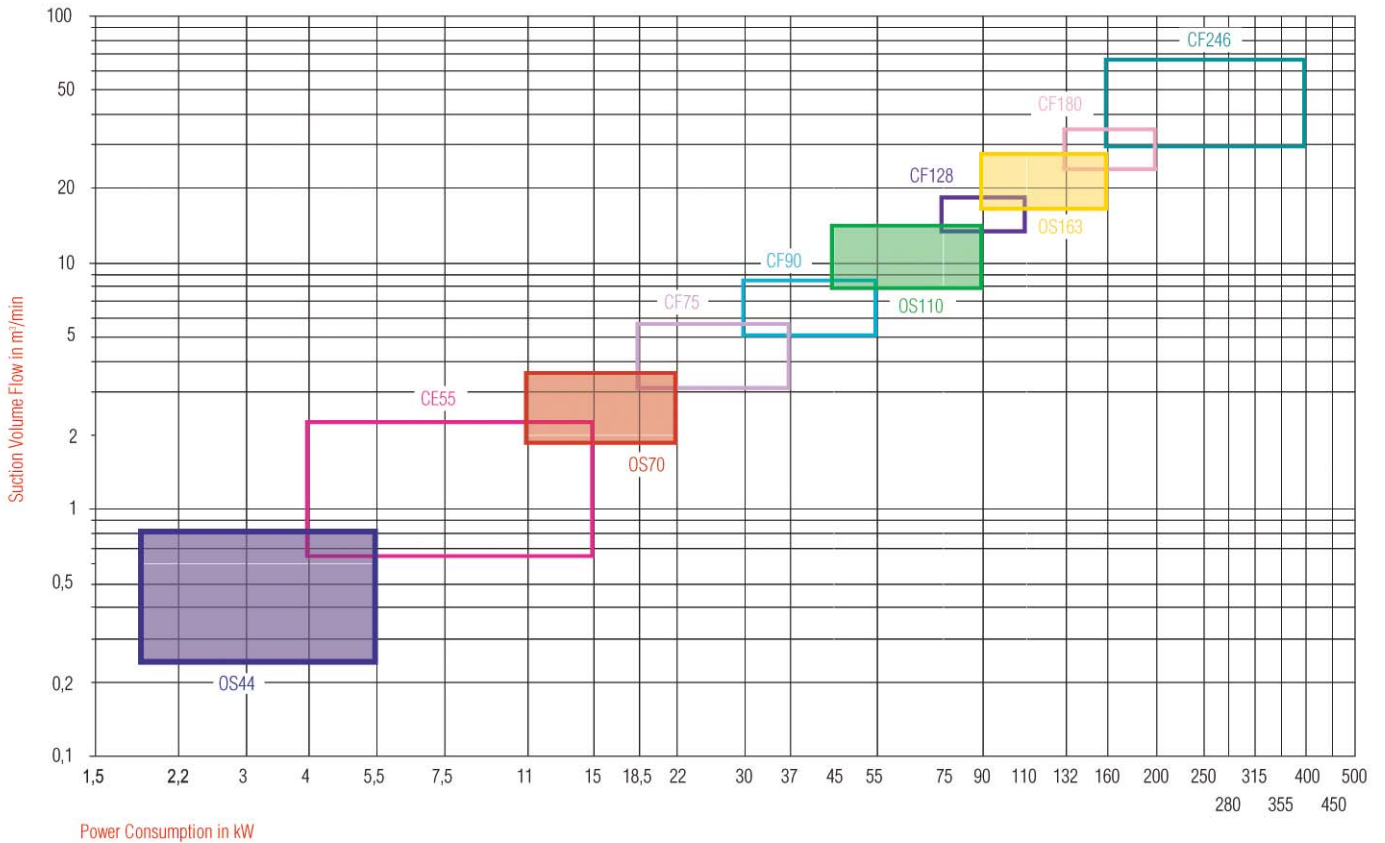
oil-injected screw compressors



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i n c r e a s i n g r e l i a b i l i t y

Operating range of the series



GHH-Rand is one of the world's leading high-technology companies. Since over 50 years GHH-RAND develops, designs, and manufactures oil-injected and oil-free compressed air solutions for many different applications. We offer a wide product range: from airends to customized compressed air systems, always with highest reliability in the industry. Our work is driven by passion to high technology and high performance.

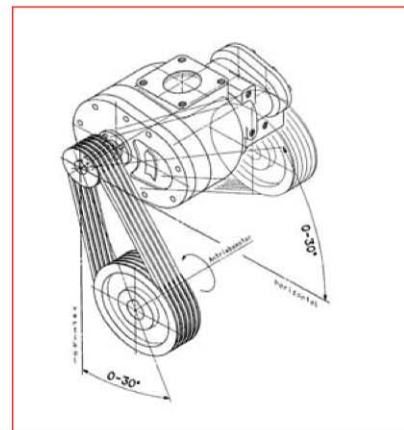
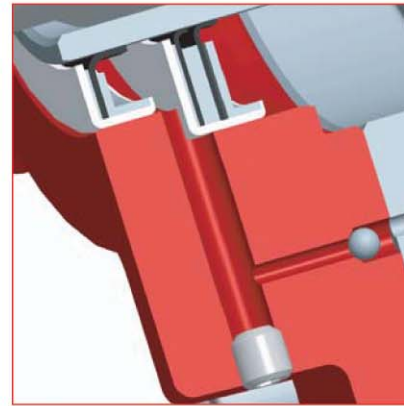
For production of our screw airends we utilize newest and advanced technologies, which allow us to reach minimum manufacturing tolerances, high precision assembly and testing under extreme conditions. The quality of our airends is very well known and acknowledged world wide.

Our engineers continuously develop our products in order to fulfill and even exceed customer's requirements. Highest efficiency and reliability in the market are results of improvement of airend design and production processes done over the years. Our delivery program includes belt driven, direct driven and gear driven airends. The airends built with high precision are suited for work under the most difficult conditions 24 hours per day. Many features and highlights of the airends allow to our OEM-customers easy selling of their products to end users. Recently we added to our famous series CE & CF newest development the series OS. With the new OS series we reached new, higher level of efficiency of screw compressors. Simplicity of the design increases its reliability.

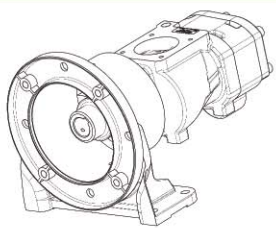
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The highlights of our airends

- GHH-Rotor profiles** _provide maximum performance and efficiency – more volume flow with less motor power
- Bearings arrangement** _robust radial and axial bearings guarantee extremely long service life
- Triple lip seal** _eliminates leakage problems through three sealing lips and special return path to the section side of the airend
- Belt drive** _in any airend the bearing loads created by interaction of medium (air) forces with external forces coming from belt load.
- Direct drive** _reliable solution for cost oriented applications
- Gear drive** _makes it possible to achieve a wide range of increased output speeds by incorporated gear box
- Base and face mounting** _flexible fits to every package design
- Exchange airends program** _we provide our customers with exchange airends and rebuild kits



PERFORMANCE OS 44, Type 2.2



Length _281.3 mm
 Width _200 mm
 Height _200 mm
 Weight _11 kg

Medium	–	Air	
Relative humidity	%	60	
Suction pressure (abs.)	bar	1.0	
Suction temperature	°C	20	
Discharge temperature	°C	80	
Frequency	Hz	50	60
Male rotor speed	rpm	2 950	3 550

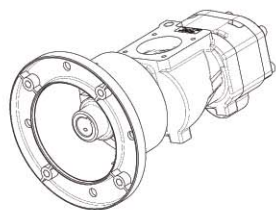
Discharge pressure (abs.)	bar		8,0
Suction volume flow	m ³ /min	0.238	0.291
Power Consumption	kW	1.79	2.16
Spec. power consumption	kW/(m ³ /min)	7.492	7.436

Discharge pressure (abs.)	bar		11,0
Suction volume flow	m ³ /min	0.231	0.28
Power Consumption	kW	2.28	2.75
Spec. power consumption	kW/(m ³ /min)	9.870	9.685

Discharge pressure (abs.)	bar		14,0
Suction volume flow	m ³ /min	0.221	0.263
Power Consumption	kW	2.83	3.28
Spec. power consumption	kW/(m ³ /min)	12.805	12.479

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PERFORMANCE OS 44, Type 3.0



Length _281.3 mm
 Width _210 mm
 Height _212 mm
 Weight _11.5 kg

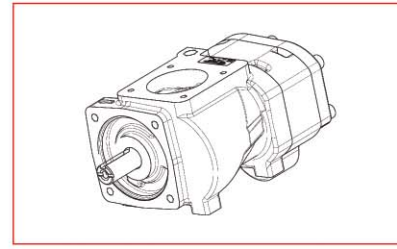
Medium	–	Air	
Relative humidity	%	60	
Suction pressure (abs.)	bar	1.0	
Suction temperature	°C	20	
Discharge temperature	°C	80	
Frequency	Hz	50	60
Male rotor speed	rpm	2 950	3 550

Discharge pressure (abs.)	bar		8,0
Suction volume flow	m ³ /min	0.366	0.446
Power Consumption	kW	2.47	2.99
Spec. power consumption	kW/(m ³ /min)	6.750	6.700

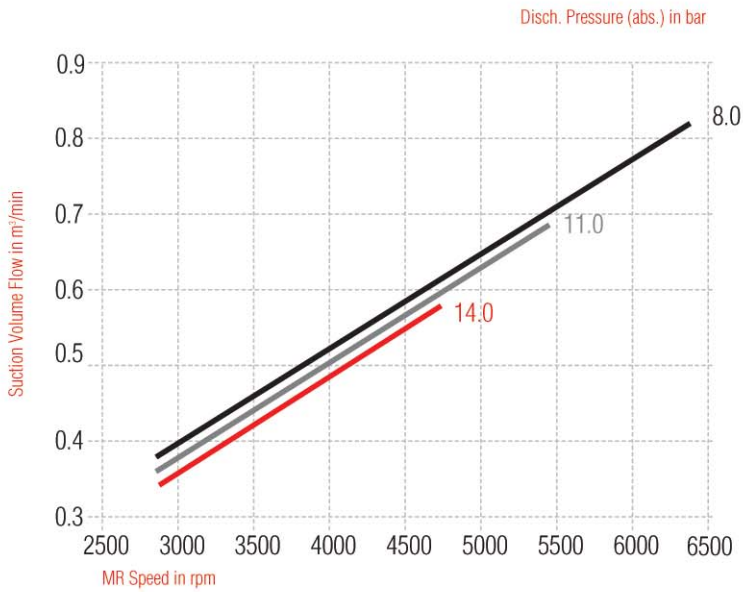
Discharge pressure (abs.)	bar		11,0
Suction volume flow	m ³ /min	0.356	0.437
Power Consumption	kW	2.97	3.58
Spec. power consumption	kW/(m ³ /min)	8.349	8.198

Discharge pressure (abs.)	bar		14,0
Suction volume flow	m ³ /min	0.345	0.410
Power Consumption	kW	3.45	4.00
Spec. power consumption	kW/(m ³ /min)	10.016	9.764

PERFORMANCE OS 44, Type 4.0 and 5.5

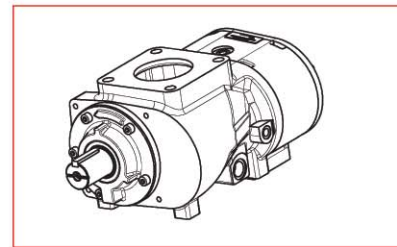


Length _220.3 mm
 Width _136.5 mm
 Height _127.5 mm
 Weight _10 kg

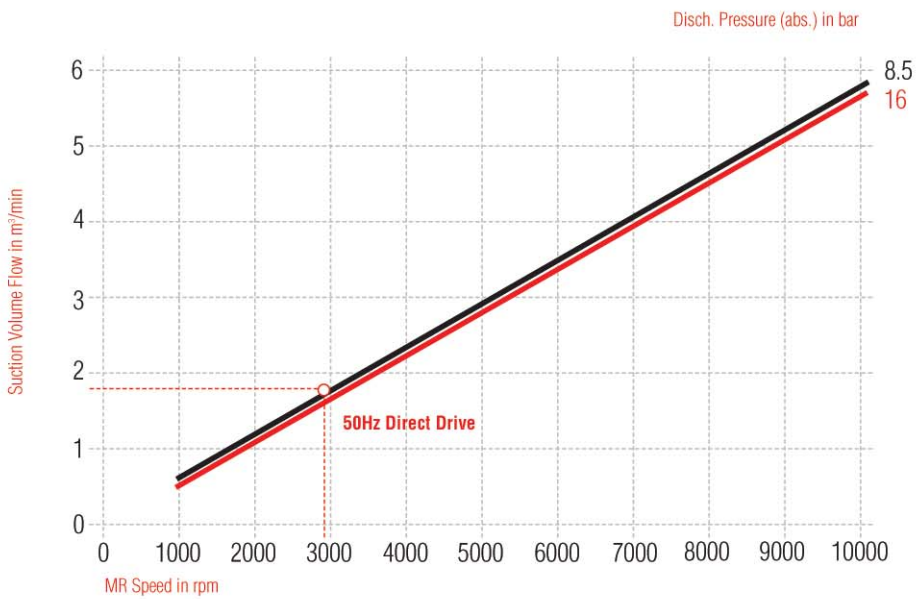


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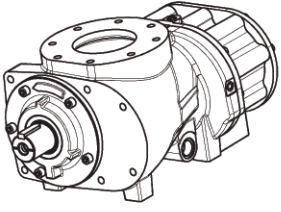
PERFORMANCE OS 70



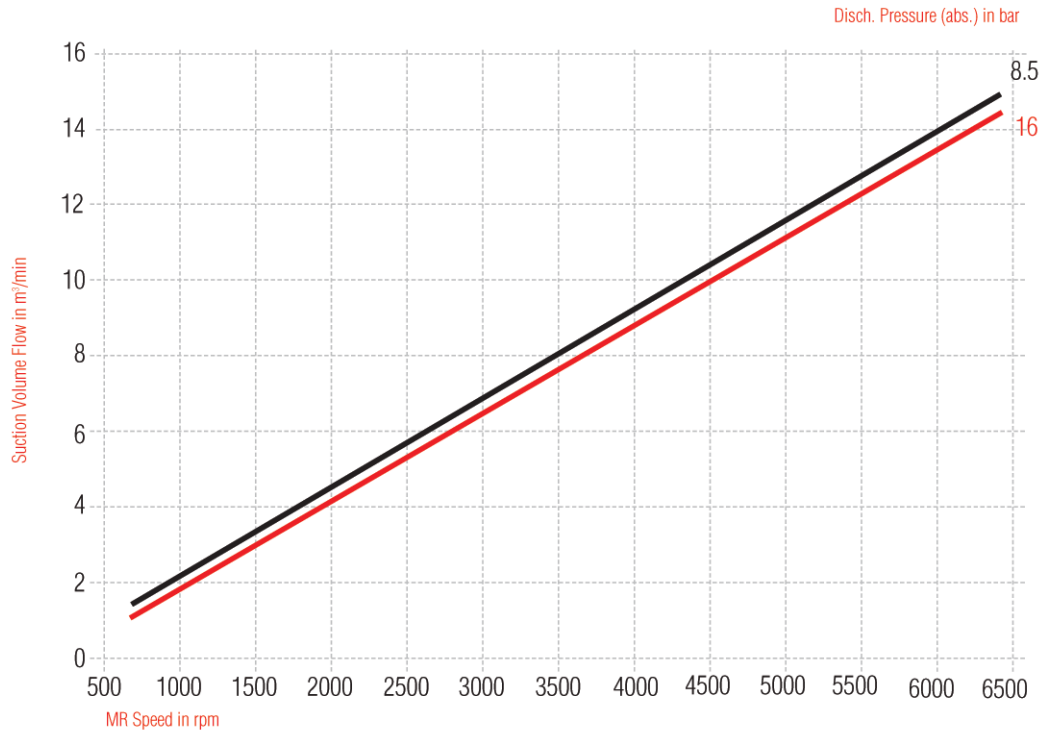
Length _368 mm
 Width _217 mm
 Height _195 mm
 Weight _43 kg



PERFORMANCE OS 110

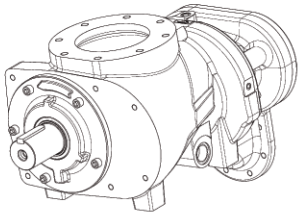


Length _550 mm*
 Width _364 mm*
 Height _302 mm*
 Weight _150 kg*

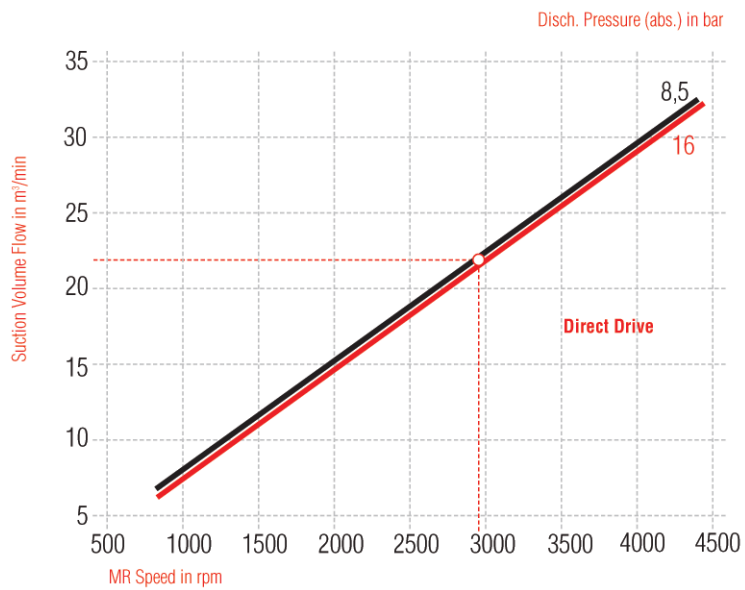


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PERFORMANCE OS 163



Length _800 mm*
 Width _550 mm*
 Height _600 mm*
 Weight _430 kg*



* Preliminary data. Subject to change.



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Components

You can choose from a wide selection of components, all of which have been specifically designed for our airends in order to optimize efficiency and reliability when operating in your compressor package. These components are proven designs and can be supplied in airend kits to help reduce your costs and your logistics. Inlet valves, minimum pressure valves, thermostats and combination blocks are all available for you to select with our airends.

Lubricant

Your compressor system will last longer and be more reliable when using our high quality mineral and synthetic lubricants. These lubricants have been engineered with excellent start up and operating lubrication characteristics. Not only will you have long life, excellent cooling performance and improved compressor efficiency but you will also benefit from extended warranty when using our lubricants.

Controls

If you require electronic controls for your compressor package then we can help. We have developed two types of electronic multifunctional in accordance with EC standards which can meet a wide variety of your requirements.

Aftermarket Service

We maintain stock of original spare parts and exchange airends in order to meet your demand. We also have a comprehensive range of rebuild kits and a factory rebuild service for our entire product portfolio, along with a dedicated team of specialists to help you with any special requirements you may have.

Engineering Services

Our engineering services can help bring you peace of mind and help you to develop and improve your packages. Our experienced and very capable engineering office supports all our customers by working with your teams to find solutions for each airend and component application.

Many years of experience helps us to help you achieve the optimum compressed air solution.

You can be certain, whatever your application, we will have the experience, the right product and the right system solution for you in order for you to save costs without loss of quality or reliability.



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