



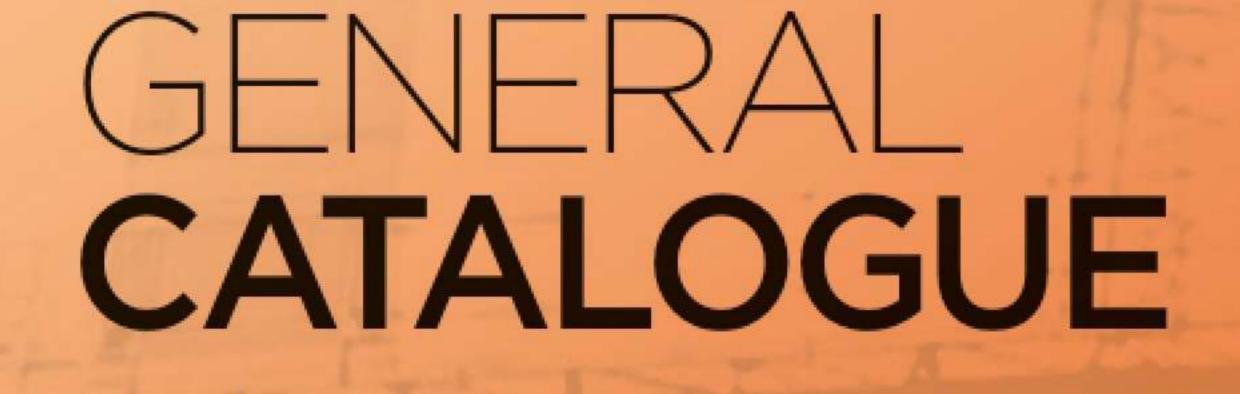
PORTABLE



COMPRESSORS

SCREW SUPERSILENT for civil engineering

DS | MDVN | MDVS | VRK | VRH







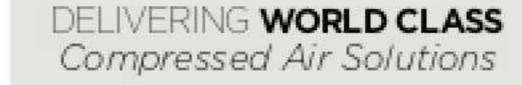
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SCREW SET ENTIRELY DESIGNED AND MANUFACTURED BY ROTAIR

WITH GROUND PROFILE
OF ROTAIR EXCLUSIVE PATENTED
MANUFACTURE AND DESIGN

FOR OWN USE AND B2B APPLICATIONS.

The asymmetric profile with oil injection is created by means of high pressure grinding that ensures excellent performance of the set in the compression stage, reducing the required energy dispersion to a minimum. The installed screw sets are of direct transmission type without geared rev multiplier. This solution reduces wear of the screw set and overheating, ensures reduced noise emissions and fuel consumption savings.









supersilent

powerful > compact

120 J-120 P



- Design with modern, slender and aggressive line.
- Electro-galvanized bodywork and chassis with advanced painting procedure to grant an excellent preservation through time.
- Compact dimensions for easy handling and optimum dimensions / delivered power ratio.
- > Light weight for the compressor class.

- Filters "spin-on" type for quick maintenance.
- > Full accessibility for easy and rapid maintenance and service.
- Exclusive pneumatic control system, developed by ROTAIR, to adjust automatically engine revs, depending on the air to be delivered. This system is highly reliable and ensures fuel consumption saving.
- Start/stop "INTELLIGENT SYSTEM", exclusive from ROTAIR, to prevent the risk of incorrect procedures during specific functioning.
- Air/oil separator filter, highly oversized, can guarantee an excellent air/oil separation.



dimensions

L = 4524 mm / 178.12" W = 1975 mm / 77.76" H = 2191 mm / 86.26"

weight

1920 kg / 4233 lbs (without brakes) 2020 kg / 4453 lbs (with brakes)

MDVS 120 J

dimensions

L = 4524 mm / 178.12" W = 1975 mm / 77.76" H = 2191 mm / 86.26"

weight >

1920 kg / 4233 lbs (without brakes) 2020 kg / 4453 lbs (with brakes)

MDVS 120P

COMPRESSOR	(•)= Possibility to have also other operating pressures up to	14/15 bar and Dual Pressure
Operating pressure (*)	7 bar 10 bar 12 bar 102 psi 145 psi 174 psi	7 bar 102 psi
Free air delivery	12000 l/min 10000 l/min 10000 l/min 424 cfm 388 cfm 353 cfm	12000 l/min 424 cfm
Minimum working pressure	5,5 bar - 80 psi	5,5 bar - 80 psi
Drive system engine-airend	Direct Drive	Direct Drive
Compressor cooling system	Air / Oil	Air / Oil
Oil cooling capacity	29 lt - 6.38 UK gal	29 lt - 6.38 UK gal
Air outlet temperature	40°C - 105°F + Ambient temperature	40°C - 105°F + Am
Outlet valves	3 x 3/4"+ 1 x 2"	3 x 3/4"+ 1 x 2"
Noise level EECno 2000/14	> 99 LWA	> 99 LWA
Battery capacity	12V cc - 950A-132Ah (EN)	12V cc - 950A-132
Fuel tank capacity	150 lt - 33 UK gal	150 lt - 33 UK gal
Consumes	14,9 lt/h - 3.28 UK gal/h (10 working hours)	15,2 lt/h - 3.34 UK

Engine make	JCB
Engine type	444 - TCA
Engine system	4 strokes - Inline
Emissions	Stage II / Tier 2
Displacement	4400 cc
N. cylinders	4
Aspiration	Turbo Intercooler
Max engine power @2200 RPM	93 kW - 126 HP
Max engine speed	2200 RPM
Min engine speed	1600 RPM
Cooling system	Water
Cooling system capacity	22 lt - 4.84 UK gal
Lubrication system	Oil
Lubrication system capacity	14 lt - 3.08 UK gal
Max ambient temperature	50°C - 122°F
Max altitude	1800 m a.s.l.
Min working temperature	-10°C / 14°F

7 bar 102 psi	10 bar 145 psi	12 bar 174 psi
12000 I/min 424 cfm	10500 l/min 370 cfm	9500 l/min 335 cfm
5,5 bar - 80 psi		
Direct Drive		
Air / Oil		
29 lt - 6.38 UK ga	al	
40°C - 105°F + A	mbient temperatu	re
3 x 3/4"+ 1 x 2"		
> 99 LWA		
12V cc - 950A-13	2Ah (EN)	
150 lt - 33 UK gal		
15,2 lt/h - 3.34 Uk	gal/h (9,9 working	g hours)

PERKINS
1104C-44TA
4 strokes - Inline
Stage II / Tier 2
4400 cc
4
Turbo Intercooler
97 kW - 132 HP
2200 RPM
1600 RPM
Water
25 lt - 5.5 UK gal
Oil
8 lt - 1.76 UK gal
50°C - 122°F
1800 m a.s.l.
-10°C / 14°F

- The air and oil filters of the compressor and the air and oil filters of the engine are independent.
- Single stage oversized air filter for compressor part, to guarantee good filtering of the air intake by airend. As option, two-stage air filter for engine part.
- Fuel pre-filter with water seperation and second filter to clean fuel in very dusty conditions.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.











Different features or tech specs may apply for the European version of this model

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powerful > compact



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- Electro-galvanized bodywork and chassis with advanced painting procedure to grant an excellent preservation through time.
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- > Light weight for the compressor class.

- > Filters "spin-on" type for quick maintenance.
- Full accessibility for easy and rapid maintenance and service.
- Exclusive pneumatic control system, developed by ROTAIR, to adjust automatically engine revs, depending on the air to be delivered. This system is highly reliable and ensures fuel consumption saving.
- Start/stop "INTELLIGENT SYSTEM", exclusive from ROTAIR, to prevent the risk of incorrect procedures during specific functioning.
- Air/oil separator filter, highly oversized, can guarantee an excellent air/oil separation.



Technical Data

dimensions

L = 3957 mm / 155.79" W = 1890 mm / 74.41" H = 1840 mm / 72.44"

weight >

1970 kg / 4343 lbs (without brakes) 2245 kg / 4949 lbs (with brakes)

Possibility to have also other operating pressures up to 14/15 bar and Dual Pressure

MDVS 125-C



Operating pressure (•)	7 bar 102 psi	10 bar 145 psi	12 bar 174 psi
Free air delivery	12000 l/min 424 cfm	11000 l/min 388 cfm	10000 l/min 353 cfm
	UAL PRESSURE		
Minimum working pressure	5,5 bar - 80 ps	si	
Drive system engine-airend	Direct Drive		
Compressor cooling system	Air / Oil		
Oil cooling capacity	29,5 lt - 6.49 l	JK gal	
Air outlet temperature	40°C - 105°F -	- Ambient tempe	rature
Outlet valves	3 x 3/4"+1 x 2	."	
Noise level EECno 2000/14	< 99 LWA		
Battery capacity	2 x 12V cc - 6	80 A-74Ah (EN)	
Fuel tank capacity	200 lt - 43.99	UK gal	
Consumes	15,4 lt/h - 3.39	UK gal/h (11,2 w	orking hours)

DIECEL	ENICINE	/ END/IDONINGENITAL	CONDITIONS
DIESEL	ENGINE	/ ENVIRONMENTAL	CONDITIONS

DIESEL ENGINE / ENVIRONI	TENTAL CONDITIONS
Engine make	CUMMINS
Engine type	QSF 3.8
Engine system	4 strokes - Inline
Emissions	Stage IV / Tier 4 Final
Filtration	DOC + SCR
Displacement	3800 cc
N. cylinders	4
Aspiration	Turbo Intercooler
Max engine power @3000 RPM	97 kW - 130 HP
Max engine speed	2200 RPM
Min engine speed	1200 RPM
Cooling system	Water
Cooling system capacity	24 lt - 5.28 UK gal
Lubrication system	Oil
Lubrication system capacity	15,6 lt - 3.43 UK gal
Max ambient temperature	50°C - 122°F
Max altitude	1800 m a.s.l.
Min working temperature	-10°C / 14°F



- The air and oil filters of the compressor and the air and oil filters of the engine are independent.
- Single stage oversized air filter for compressor part, to guarantee good filtering of the air intake by airend. As option, two-stage air filter for engine part.
- Fuel pre-filter with water seperation and second filter to clean fuel in very dusty conditions.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.









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powerful > compact



- SKID ADAPTOR
- Design with modern, slender and aggressive line.
- Electro-galvanized bodywork and chassis with advanced painting procedure to grant an excellent preservation through time.
- Compact dimensions for easy handling and optimum dimensions / delivered power ratio.
- Light weight for the compressor class.

- Filters "spin-on" type for quick maintenance.
- Full accessibility for easy and rapid maintenance and service.
- Exclusive pneumatic control system, developed by ROTAIR, to adjust automatically engine revs, depending on the air to be delivered. This system is highly reliable and ensures fuel consumption saving.
- Start/stop "INTELLIGENT SYSTEM", exclusive from ROTAIR, to prevent the risk of incorrect procedures during specific functioning.
- Air/oil separator filter, highly oversized, can guarantee an excellent air/oil separation.

Technical Data

dimensions

L = 4524 mm / 178.12" W = 1975 mm / 77.76" H = 2191 mm / 86.26"

weight

2200 kg / 4850 lbs

MDVS 170 J

	FEW FEW		
100 A		ESS	
18-511	medical to 8		

	7 bar	10 bar	12 bar	14 bar	15 bar
Operating pressure	102 psi	145 psi	174 psi	203 psi	218 psi
Free air delivery	17000 lt/min 600 cfm	15000 lt/min 530 cfm	13400 lt/min 474 cfm	12000 lt/min 423 cfm	11100 m³/min 388 cfm
Minimum working pressure			5,5 bar - 80 psi		
Drive system engine-airend			Direct Drive		
Compressor cooling system			Air / Oil		
Oil cooling capacity			39,5 lt - 8.69 UK gal		
Air outlet temperature		40°C - 1	05°F + Ambient tem	perature	
Outlet valves			3 x 3/4"+ 1 x 2"		
Noise level EECno 2000/14			> 99 LWA		
Battery capacity		12\	/ cc - 950A-132Ah (E	EN)	
Fuel tank capacity			150 lt - 33 UK gal		
Consumes		20 lt/h - 4	.4 UK gal/h (7,5 work	ing hours)	
Diesel Engine / Environmental Conditions					
Engine make			JCB		
Engine type			TCAE-120KW		
Engine system		4 strok	es - Inline - Direct In	jection	
Emissions			Stage III A / Tier 3		
Displacement			4400 cc		
N. cylinders			4		
Aspiration			Turbo Intercooler		
Max engine power @3000 RPM			120 kW - 162 HP		
Max engine speed			2200 RPM		
Min engine speed			1600 RPM		
Cooling system			Water		
Cooling system capacity			22 lt - 4.84 UK gal		
Lubrication system			Oil		
Lubrication system capacity			14 lt - 3.08 UK gal		
Max ambient temperature			50°C - 122°F		
Max altitude			1800 m a.s.l.		
Min working temperature			-10°C / 14°F		

- The air and oil filters of the compressor and the air and oil filters of the engine are independent.
- Single stage oversized air filter for compressor part, to guarantee good filtering of the air intake by airend. As option, two-stage air filter for engine part.
- Fuel pre-filter with water seperation and second filter to clean fuel in very dusty conditions.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.



07







supersilent

powerful > compact

255C-255D



- Design with modern, practical line.
- Electro-galvanized bodywork and chassis with advanced painting procedure to grant an excellent preservation through time.
- Sizing for easy handling and optimum dimensions / delivered power ratio.
- Oil filter "spin-on" type for quick maintenance.

- Full accessibility for easy and rapid maintenance and service.
- Exclusive pneumatic control system, developed by ROTAIR, to adjust automatically engine revs, depending on the air to be delivered. This system is highly reliable and ensures fuel consumption saving.
- Start/stop "INTELLIGENT SYSTEM", exclusive from ROTAIR, to prevent the risk of incorrect procedures during specific functioning.
- Air/oil separator filter, highly oversized, can guarantee an excellent air/oil separation.



dimensions

L = 6142 mm / 241.83" W = 1960 mm / 77.17''H = 2220 mm / 87.4"

weight

3200 kg / 7065 lbs (without brakes) 3250 kg / 7165 lbs (with brakes)

MDVS 255 C

dimensions

L = 6142 mm / 241.83" W = 1960 mm / 77.17''H = 2220 mm / 87.40"

weight >

3300 kg / 7275 lbs (without brakes) 3350 kg / 7385 lbs lbs (with brakes)

MDVS 255 D

COMPRESSOR	(e) = Possibility to have also other operating pressures up to	14/15 bar and Dual Pressure
Operating pressure (*)	8 bar 10 bar 12 bar 116 psi 145 psi 174 psi	8 bar 116 psi
Free air delivery	25,3 m³/min 22,7 m³/min 20,5 m³/min 893 cfm 802 cfm 723 cfm	25,3 m³/min 893 cfm
Minimum working pressure	5,5 bar - 80 psi	5,5 bar - 80 psi
Drive system engine-airend	Direct Drive	Direct Drive
Compressor cooling system	Air / Oil	Air / Oil
Oil cooling capacity	62,5 lt - 13.75 UK gal	62,5 lt - 13.75 UK g
Air outlet temperature	40°C - 105°F + Ambient temperature	40°C - 105°F + Am
Outlet valves	3 x 3/4"+ 1 x 2"	3 x 3/4"+ 1 x 2"
Noise level EECno 2000/14	> 100 LWA	> 100 LWA
Battery capacity	12V cc - 750A-100Ah (EN)	12V cc - 750A-100
Fuel tank capacity	380 lt - 83.59 UK gal	380 lt - 83.59 UK
Consumes	32,9 lt/h - 7.24 UK gal/h (11,5 working hours)	31,9 lt/h - 7.02 UK

DIESEL ENGINE / ENVIRONMENTAL CONDITIONS

CUMMINS
QSB6.7
4 strokes - Inline
Stage III A / Tier 3
6700 cc
6
Turbo Intercooler
194 kW - 262 HP (@ 2200 RPM)
2200 RPM
1400 RPM
Water
33 lt - 7.26 UK gal
Oil
14 lt - 3.08 UK gal
50°C - 122°F
1800 m a.s.l.
-10°C / 14°F

	8 bar 116 psi	10 bar 145 psi	12 bar 174 psi
	25,3 m³/min 893 cfm	22,7 m³/min 802 cfm	18 m³/min 636 cfm
	5,5 bar - 80 psi		
	Direct Drive		
	Air / Oil		
	62,5 lt - 13.75 UK gal 40°C - 105°F + Ambient temperature		
	3 x 3/4"+ 1 x 2"		
	> 100 LWA		
	12V cc - 750A-100Ah (EN)		
	380 lt - 83.59 UK gal		
	31,9 lt/h - 7.02 UK gal/h (11,9 working hours)		

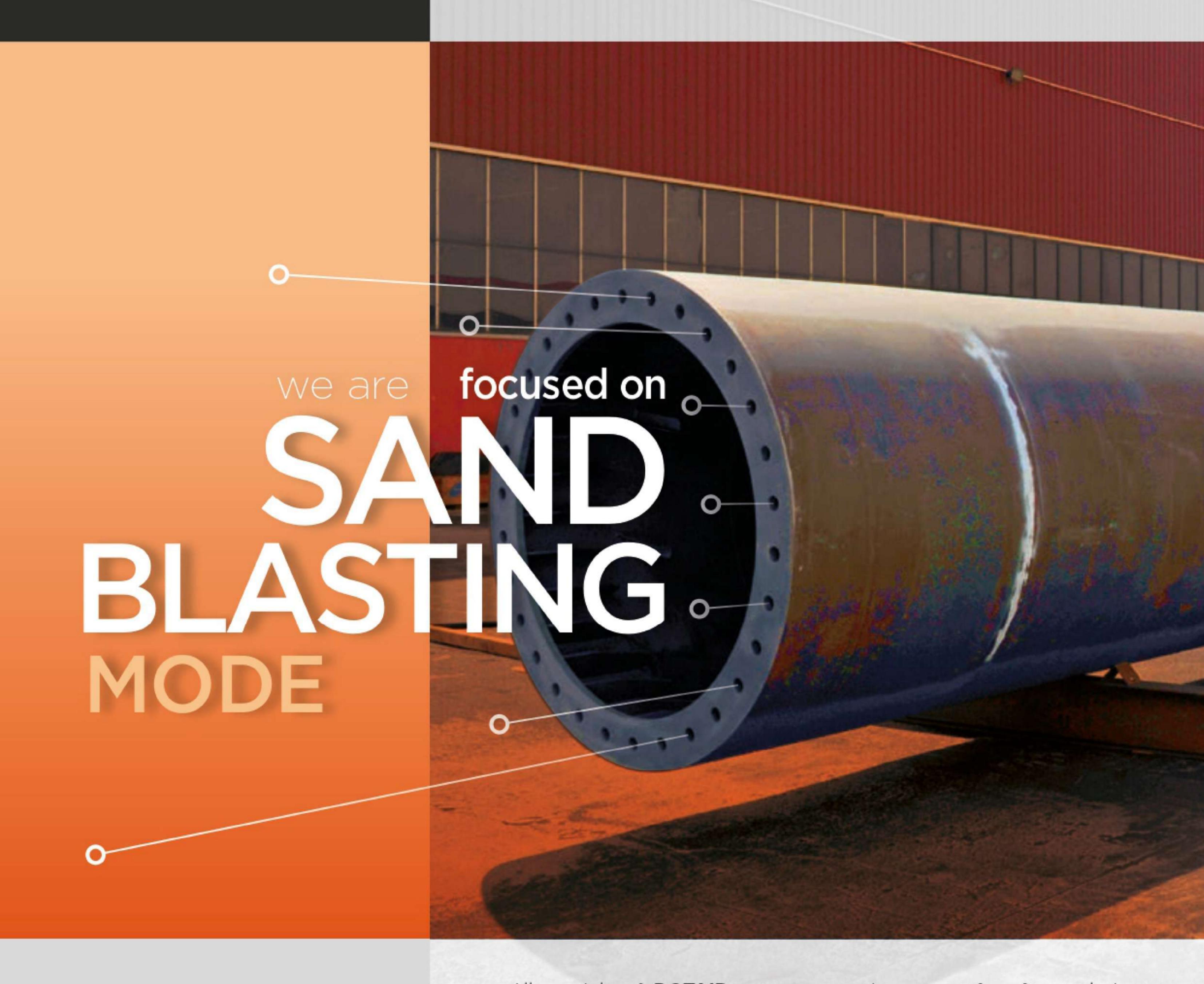
DEUTZ	
BF6M 1013FC	
4 strokes - Inline	
Stage II / Tier 2	
7100 cc	
6	
Turbo Intercooler	
190 kW - 257 HP (@ 2300 RPM)	
2300 RPM	
1300 RPM	
Water	
34 lt - 7.48 UK gal	
Oil	
14,5 lt - 3.19 UK gal	
50°C - 122°F	
1800 m a.s.l.	
-10°C / 14°F	

- The air and oil filters of the compressor and the air and oil filters of the engine are independent.
- Single stage oversized air filter for compressor part, to guarantee good filtering of the air intake by airend. As option, two-stage air filter for engine part.
- Fuel pre-filter with water seperation and second filter to clean fuel in very dusty conditions.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.









AFTER COOLED SANDBLASTING

All models of **ROTAIR** compressors have specific aftercooled versions.

They feature an additional cooler to cool down compressed air and a specific condensate separator, that drains the water produced by the thermic exchange of the cooler.

This gives a cooler output of compressed air (ambient +12 ± 2°C) and significantly lowers the humidity of the air, although not removing completely the moisture from air, as this depends mainly on the environmental conditions.



INBUILT ADDITIONAL COOLER AND SPECIFIC CONDENSATE SEPARATOR

for cool and dry air



The aftercooled versions are called "SANDBLASTING" because the main use of these machines finds its operation in the sandblasting sector. These machines are indicated for all operations that are sensitive to humidity of the air output: optic fibre laying, use of pneumatic tools that are sensitive to humidity. ROTAIR also offers an EXTERNAL "BS" AFTER-COOLER SYSTEM, easy to connect through an air pipe kit and is electrically powered by the compressor.

It enables standard compressors, from 2000 to 8500 lt/min (71 to 300 cfm) to work in sandblasting and other humidity-sensitive operations. Air output temperature is extremely low: ambient +2°C. Humidity in air suffers a drastic diminution. The unit is on wheels, easy to transort and to handle, built to meet the most exigent and severe working conditions.



ROTAIR OFFERS

A BROAD PANEL OF TRAILERS, TO MAKE COMPRESSORS EFFECTIVELY PORTABLE.

The undercarriage of a portable compressor is composed of:

AXLE

The part connecting compressor to the ground, includes suspension system, wheels and all related parts. Suspensions can be assured with springs (sprung axle) or leaf springs (leaf spring axle). Wheels are of different size, to match the weight of the machine and according to the type of towing.

LIGHTS

System of rear lights and reflectors

BRAKING SYSTEMS

Can be with no braking system at all, simple parking brake or repulsion braking system.



STANDARD TRAILER - MDVN

TRAILER WITH BRAKES - MDVN

STANDARD TRAILER - MDVS

TRAILER WITH BRAKES - MDVS

TRAILER WITH PARKING BRAKE

SKID ADAPTOR So-called "gooseneck" for the peculiar shape of the drawbar. Is always without brakes. Enables slow towing (max 25 km/h) on work field but not on public roads.

Has adjustable drawbar, repulsive braking system, lights. Enables compressor to be towed on public roads, if homologated.

Has adjustable drawbar. Is without repulsive braking system, but has a parking brake. Enables slow towing (max 25 km/h) on work field but not on public roads.

Has adjustable drawbar, repulsive braking system, lights. Enables compressor to be towed on public roads, if homologated.

All types of axles and drawbars can be equipped with parking brake, a lever that blocks the wheels when the machine must be static.

Portable compressors can be delivered "ON SKID", which means without wheels but on a base with four support feet.

ROTAIR has a special SKID ADAPTOR, used to prepare the machine for standard skid delivery, that can be provided as separate attachment and be used to transform a towable compressor into a skid compressor. Viceversa: by removing the skid adaptor and installing an undercarriage with all its parts, the original skid machine can become towable.





ON ROAD HOMOLOGATION / To circulate on public roads, towed by a vehicle, a portable compressor needs to have several characteristics.

EUROPE:

European Union has uniformed the legislation to enable towing of trailers, among those portable compressors. To be towed on public roads, a trailer shall respond to Directive 2007/46/CE. The manufacturer shall undergo a process of internal homologation by one European Ministry of transports and all machines to be towed shall be examined and approved. The exam includes the presence of all elements requested by the Directive (among others: braking system where needed, lights, reflectors, etc..). This done, the manufacturer will be issued, for each towable model, a unique reference number, that will be engraved on the chassis of the machines deemed to be towed and integrated into the specific documentation of the machine. This number, communicated by the end Customer to the Office of Circulation of the European Country where the machine will be put into operation, will enable the road homologation process without need of further presentation of documents or physical inspection and assessment by the competent Authority.

OTHER COUNTRIES.

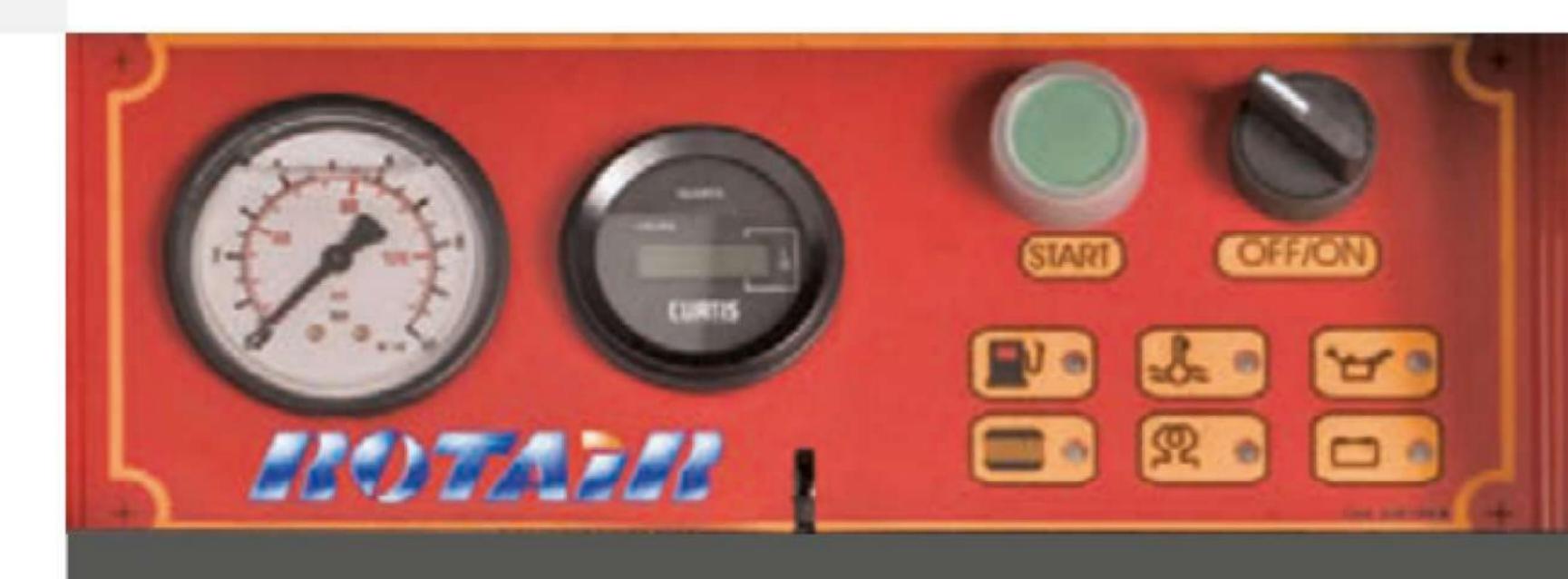
For other Countries outside Europe, the local legislation shall be followed. ROTAIR can provide, upon request, the specific documents and drawings that could be requested for a national road homologation. The Dealer or end Customer shall provide the specifications that the machines shall respect to be homologated. In some cases, the Dealer could modify the machines, upon authorization of ROTAIR, to conform them to the norms of the reference Country.

FEATURED HIGHLIGHTS

EXCLUSIVE ROTAIR INTELLIGENT SYSTEM

THE "INTELLIGENT SYSTEM" ENABLES A PRE-HEATING OF THE ENGINE WITHOUT OVERLOADING IT, THE AIREND WILL START WORKING ONLY WHEN THE PERFECT CONDITIONS ARE REACHED.

THE SAME IN TURNING OFF THE MACHINE AFTER A DEPRESSURISATION PHASE OF THE HYDRAULIC CIRCUIT, NO HAMMERING OF THE AIREND DUE TO ITS INERTIAL MOVEMENT, BUT A GRADUAL TURN-OFF.



No more need to start the machine with the air exit open (and risks of forgetting it)

All this brings:

- A correct lubrication to the screw set and the engine, even in extremely cold temperature conditions.
- A better functioning and a higher durability of all the components of the machine.
- An increase of the separator filter lifetime and no oil in the air during the next compressor's starts (and no black smoke from the exhausts pipe while turning the machine on).



BUNDED CHASSIS ADAPTER

This exclusive device, only for ROTAIR portable compressors, offers the possibility to have your compressor protected from accidental spills of fluids on the ground.

Removable yet solidly fixable to the compressor, it is the ultimate option where anti-spill is mandatorily required.

It is so intelligent that it enables forklift handling of the compressor.

EASY MAINTENANCE

FULL ACCESSIBILITY
FOR EASY AND RAPID
MAINTENANCE AND
SERVICE





PORTABLE COMPRESSORS





VIA BERNEZZO, 67 12023 CARAGLIO (CN) ITALY



Tel: +39 **0171.619676**

Fax: +39 **0171.619677**

www.rotairspa.com info@rotairspa.com

Company certified ISO 9001:2015



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