



**ROTAIR®**

# PORTABLE COMPRESSORS

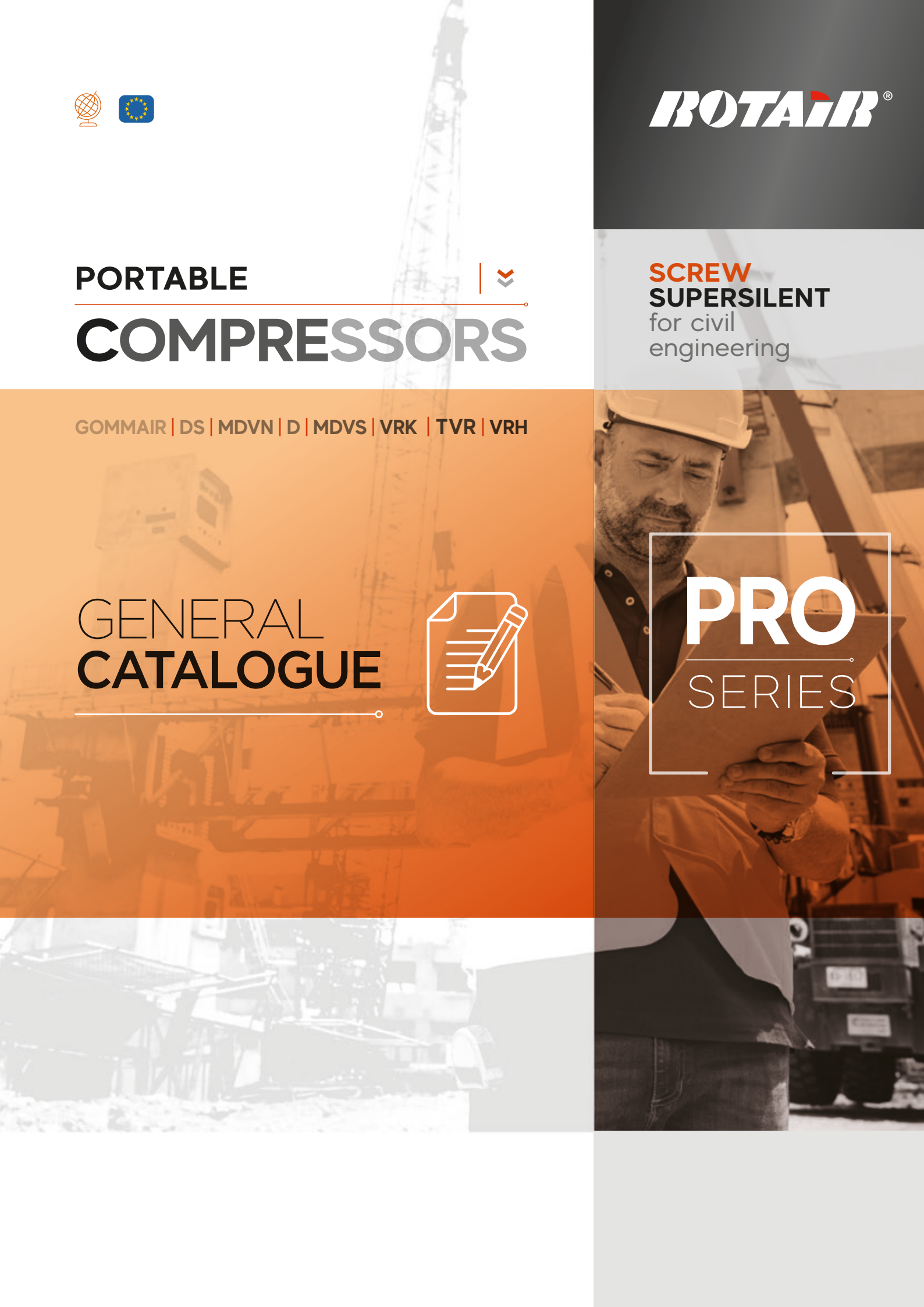
GOMMAIR | DS | MDVN | D | MDVS | VRK | TVR | VRH

## GENERAL CATALOGUE



**SCREW  
SUPERSILENT**  
for civil  
engineering

**PRO**  
SERIES



**ROTAIR®**



powerful > compact

**MDVS**

**120 J - 120 P**



✧ | **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 >

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 120 P

### COMPRESSOR

(\*) = Possibility to have also other operating pressures up to 14/15 bar and Dual Pressure

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
Minimum working pressure	5,5 bar - 80 psi		
Drive system engine-airend	Direct Drive		
Compressor cooling system	Air / Oil		
Oil cooling capacity	29 lt - 6.38 UK gal		
Air outlet temperature	40°C - 72°F + Ambient temperature		
Outlet valves	3 x 3/4" + 1 x 2"		
Noise level EECno 2000/14	> 99 LWA		
Battery capacity	12V cc - 950A-132Ah (EN)		
Fuel tank capacity	150 lt - 33 UK gal		
Consumes	14,9 lt/h - 3.28 UK gal/h (10 working hours)		

### DIESEL ENGINE / ENVIRONMENTAL CONDITIONS

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 l/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 gal		
40°C - 72°F + Ambient temperature		
3 x 3/4" + 1 x 2"		
> 99 LWA		
12V cc - 950A-132Ah (EN)		
150 lt - 33 UK gal		
15,2 lt/h - 3.34 UK gal/h (9,9 working 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 separation and second filter to clean fuel in very dusty conditions.
- ▶ Combined radiator allowing both compressor oil cooling and engine liquid cooling.







# MDVS

powerful › compact

# 125 Eco5



› 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 = 3957 mm / 155.79"

W = 1890 mm / 74.41"

H = 1840 mm / 72.44"

## weight ›

1900 kg / 4188 lbs (without brakes)

2045 kg / 4508 lbs (with brakes)

## MDVS 125 Eco5

# NEW TYPE

### COMPRESSOR

Operating pressure	7 bar 102 psi	10 bar 145 psi	12 bar 174 psi
Free air delivery	12000 lt/min 424 cfm	11000 lt/min 388 cfm	10000 lt/min 353 cfm
<b>DUAL PRESSURE</b>	7-10 bar ›› 102-145 psi 12000 l/min ›› 10500 l/min		
Minimum working pressure	5,5 bar - 80 psi		
Drive system engine-arend	Direct Drive		
Compressor cooling system	Air / Oil		
Oil cooling capacity	29,5 lt - 6.49 UK gal		
Outlet valves	3 x 3/4" + 1 x 2"		
Noise level EECno 2000/14	< 99 LWA		
Battery capacity	1 x 12V cc - 1100A-180Ah (EN)		
Fuel tank capacity	200 lt - 43.99 UK gal		
Consumes	19,9 lt/h @ 100% - 7,9 lt/h @ 60% 4.38 UK gal/h @ 100% - 1.74 UK gal/h @ 60%		

### DIESEL ENGINE / ENVIRONMENTAL CONDITIONS

Engine make	KOHLER
Engine type	KDI 3404 TCR
Engine system	4 strokes - Inline
Emissions	Stage V / Tier 4 Final
Displacement	3359 cc
N. cylinders	4
Aspiration	Turbo Intercooler
Max engine power @3000 RPM	105 kW
Max engine speed	2200 RPM
Min engine speed	1400 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 s.n.m.
Min working temperature	-10°C / 14°F

# NEW ENGINE



Join To Live  
**EXPERIENCE**

ask for  
**TRY IT!**

- › 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 separation and second filter to clean fuel in very dusty conditions.
- › Combined radiator allowing both compressor oil cooling and engine liquid cooling.





**ROTAIR®**



powerful > compact

**MDVS**

**255 C - 255 D**



✧ | **SKID ADAPTOR**

- › 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.

# Technical Data

## 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 (with brakes)

## MDVS 255 D

### COMPRESSOR

(\*) = Possibility to have also other operating pressures up to 14/15 bar and Dual Pressure

Operating pressure (*)	8 bar 116 psi	10 bar 145 psi	12 bar 174 psi
Free air delivery	25,3 m³/min 893 cfm	22,7 m³/min 802 cfm	20,5 m³/min 723 cfm
Minimum working pressure	5,5 bar - 80 psi		
Drive system engine-arend	Direct Drive		
Compressor cooling system	Air / Oil		
Oil cooling capacity	62,5 lt - 13.75 UK gal		
Air outlet temperature	40°C - 72°F + Ambient temperature		
Outlet valves	3 x 3/4" + 1 x 2"		
Noise level EECno 2000/14	> 100 LWA		
Battery capacity	12V cc - 750A-100Ah (EN)		
Fuel tank capacity	380 lt - 83.59 UK gal		
Consumes	32,9 lt/h - 7.24 UK gal/h (11,5 working hours)		

### DIESEL ENGINE / ENVIRONMENTAL CONDITIONS

Engine make	CUMMINS
Engine type	QSB6.7
Engine system	4 strokes - Inline
Emissions	Stage III A / Tier 3
Displacement	6700 cc
N. cylinders	6
Aspiration	Turbo Intercooler
Max engine power	194 kW - 262 HP (@ 2200 RPM)
Max engine speed	2200 RPM
Min engine speed	1400 RPM
Cooling system	Water
Cooling system capacity	33 lt - 7.26 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

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 - 72°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.
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- › Fuel pre-filter with water separation and second filter to clean fuel in very dusty conditions.
- › Combined radiator allowing both compressor oil cooling and engine liquid cooling.



A large, horizontal industrial pipe, possibly for sandblasting, is shown in a workshop or factory setting. The pipe has a flange with many bolt holes at one end. The background shows a red building with windows.

we are focused on

# SAND BLASTING MODE

## 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 ( $\text{ambient} + 12 \pm 2^{\circ}\text{C}$ ) 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*



specifically  
designed for...

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 transport 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

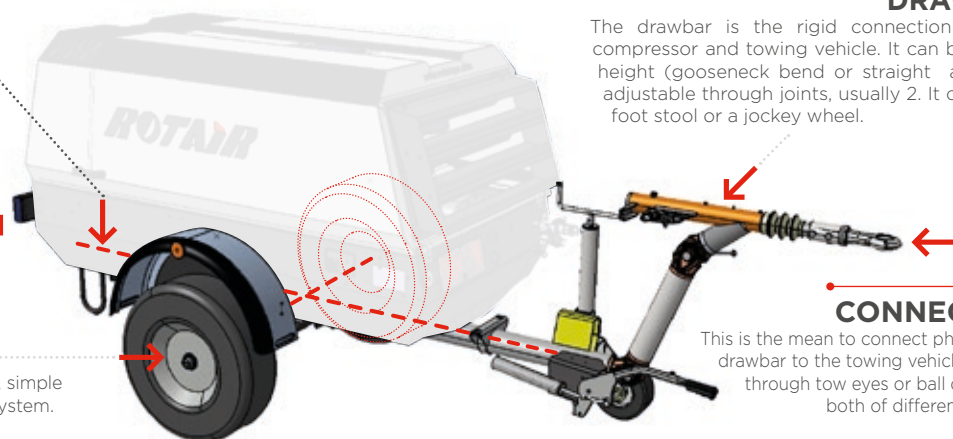
Can be with no braking system at all, simple parking brake or repulsion braking system.

### DRAWBAR

The drawbar is the rigid connection between compressor and towing vehicle. It can be at fixed height (gooseneck bend or straight angles) or adjustable through joints, usually 2. It can have a foot stool or a jockey wheel.

### CONNECTION

This is the mean to connect physically the drawbar to the towing vehicle. It can be through tow eyes or ball connection, both of different diameter.



### STANDARD TRAILER - MDVN

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.

### TRAILER WITH BRAKES - MDVN

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

### STANDARD TRAILER - MDVS

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.

### TRAILER WITH BRAKES - MDVS

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

### TRAILER WITH PARKING BRAKE

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

### SKID ADAPTOR

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.

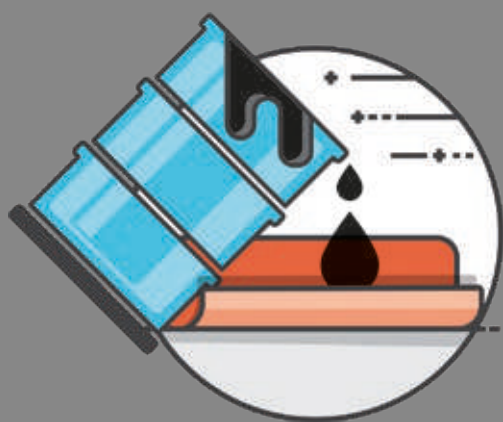
THE SAME IN TURNING OFF THE MACHINE AFTER A DEPRESSURISATION PHASE OF THE HYDRAULIC CIRCUIT, NO HAMMERING OF THE AIREND DUE TO ITS INERTIAL MOVEMENT, BUT A GRADUAL TURN-OFF.



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

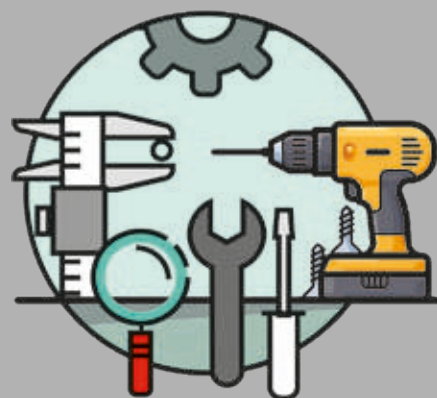
*This exclusive device, only for ROTAIR portable compressors, offers the possibility to have your compressor protected from accidental spills of fluids on the ground.*

*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**



**WARRANTY,  
DURATION and  
RELIABILITY**

are assured with  
THE EXCLUSIVE USE  
of original spare parts.





PORTABLE



COMPRESSORS

**SCREW  
SUPERSILENT**  
for civil  
engineering  
&  
MUCH MORE



**ROTAIR®**

VIA BERNEZZO, 67  
12023 ▶ CARAGLIO (CN) ▶ ITALY



Tel: +39 0171.619676  
Fax: +39 0171.619677



[www.rotairspa.com](http://www.rotairspa.com)  
[info@rotairspa.com](mailto:info@rotairspa.com)

Company certified  
ISO 9001:2015

ISO 9001  
BUREAU VERITAS  
Certification



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