ROTAIR

VRK | MDVN | MDVS

SPECIAL

FIBRE OPTIC

RANGE | *Conceived for cable blowing*

with INTEGRATED COOLING systems

delivering
WORLD-CLASS Compressors

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.

ROTAIR

ROTAIR®

COMPRESSED AIR *IS THE ENGINE OF FUTURE CONNECTIVITY, A FUNDAMENTAL ELEMENT FOR BUILDING EFFICIENT AND SAFE INFRASTRUCTURES THAT ENABLE RAPID EXPANSION OF THE FIBRE OPTIC NETWORK.*

HIGH QUALITY COMPRESSED AIR

FOR FIBRE OPTIC CABLE BLOWING

COMPACT DESIGN, EXTREMELY MANEUVERABLE AND EASY ACCESS FOR MAINTENANCE. ALL FILTERS READILY ACCESSIBLE.

THIS IS OUR SOLUTION

***ROTAIR**, since 1961, designed and manufactured world-class compressors for all requirements of compressed air.*

The right machine for each specific need of high quality compressed air.

THE BASICS OF CABLE BLOWING / JETTING

Fiber optic cables are blown to make a connection between two connection points in a data network.
There are two ways of working to get the cable underground; it can be trenchless, by drilling with subsequent insertion of a tube, or by digging a trench, an open method, where the tube is laid in the trench. The latter method is most commonly used.

CLEANING OF THE TUBE

It is very important that the tube, in which the fibre optic cable will be fed, is clean. Therefore, in the preliminary phase, the tube shall be cleaned by blowing a sponge through it with14 bars of air pressure, to remove the initial dirt.
Then another sponge is blown through the tube, this time with lubricant. Then a sponge is blown through the tube again to distribute the lubricant. Finally, another sponge with lubrication is blown through the tube.

BLOWING / JETTING OF THE FIBRE OPTIC CABLE

The fibre optic cable is mechanically fed into the tube by the blowin machine, with air blown along at 14 bar. As the fiberglass cable is surrounded by compressed air, friction is locally reduced or eliminated. Thus, the fiber optic cable experiences little to no mechanical resistance, which is highly desirable due to the delicate nature of fiber optics.
it is critical to maintain a constant and reliable air flow.

Delivering **World-Class** Compressors

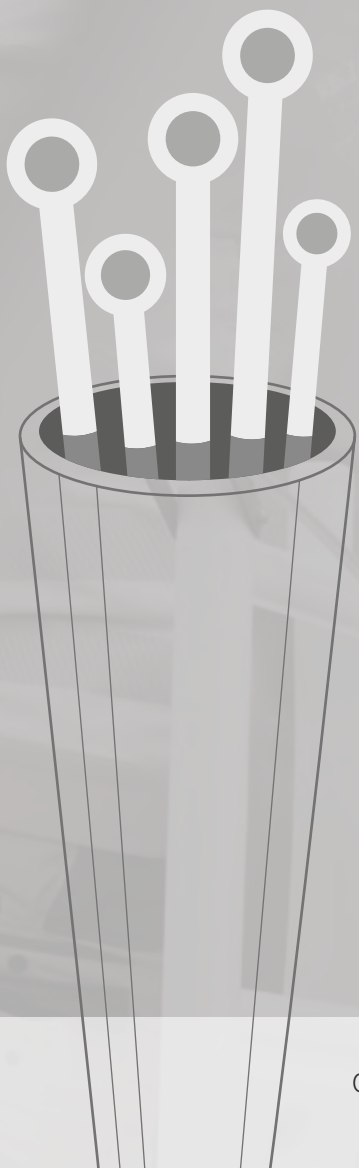
CHOOSING THE RIGHT COMPRESSOR

The compressor not only supplies the air to transport the cable in the tube, but also uses air to drive the air motor of the blow-in machine.

The compressor must be able to deliver

- ***CONSTANT AND RELIABLE AIR FLOW THROUGHOUT THE PROCESS***
- ***AT A HIGH PRESSURE (12-15 BAR)***
- ***COOL AIR (AMBIENT +20°C TO 0/2°C)***
- ***DRY AIR (MOISTURE SEPARATOR TO PREVENT CONDENSATION)***
- ***NO OIL CARRY-OVER (<= 2 PPM)***

The ROTAIR Fibre Range ensures, with its inbuilt aftercooler and moisture separators originally designed and installed on all the models, the presence of these critical parameters.



ROTAIR

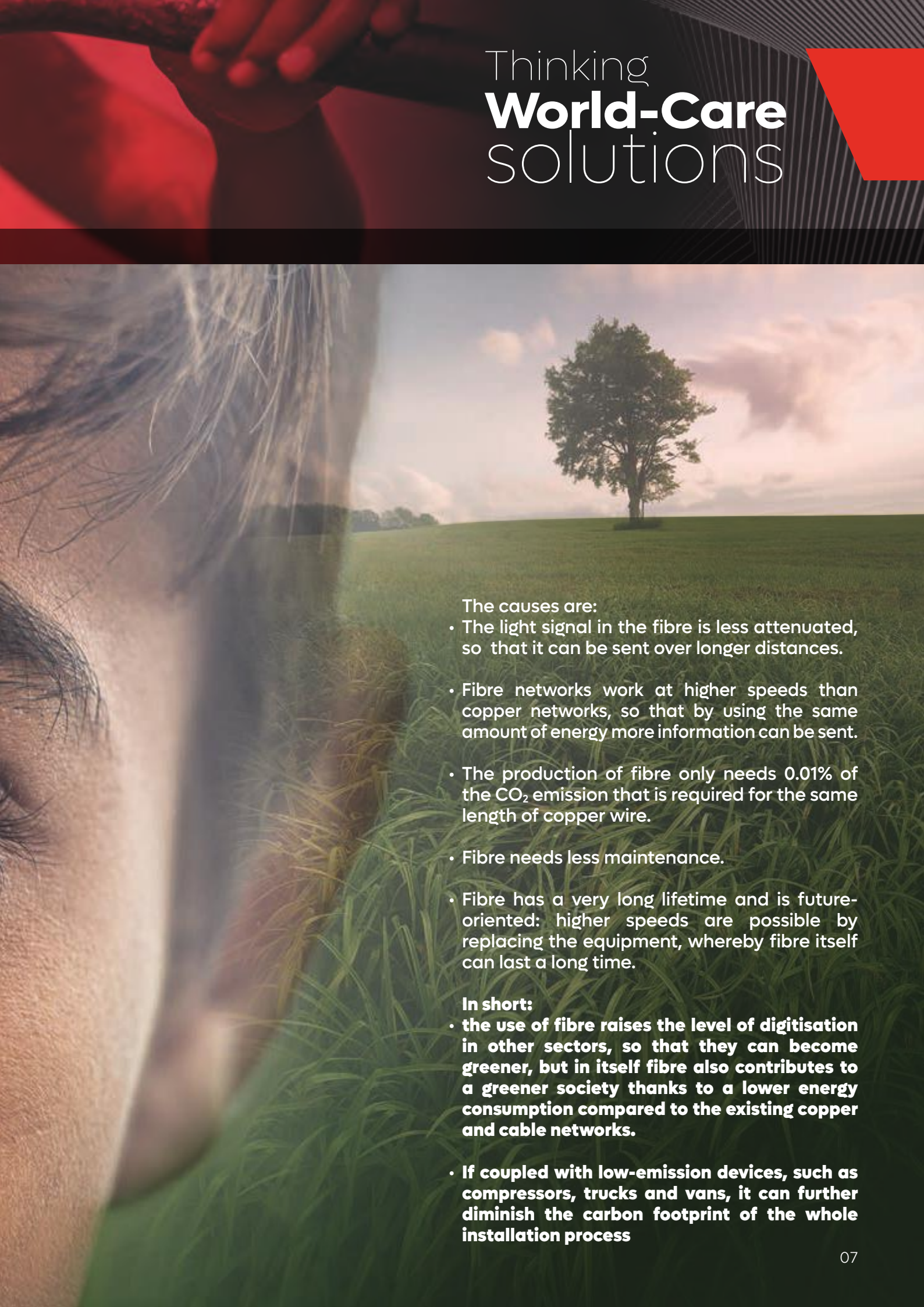
Thinking World-Care

The growing attention to climate change leads to more awareness of the impact of technology on the environment. In that context digitization is one of the leverages for a lower CO_2 emission. The fact is that digitization leads to the creation of new applications that make it possible to work more efficiently, to save energy and thus to contribute to a greener society. This is called the enabling effect of digitization.

Evidently, the digital sector itself also has a direct impact on the environment. That is why it is important to look at the emission caused by the sector itself and to choose the most energy-efficient technology.

Fibre also contributes to further digitization owing to its high bandwidth, lower latency and high reliability. As such, thanks to fibre bigger volumes of data can be sent more quickly, which is necessary in case of distant care, self-driving cars and other data-dependent innovations, for instance, which lead to a greener society.
The fibre network in itself also consumes energy. Various studies (such as this BREKO study) show however that an FTTH network consumes considerably less energy than the traditional networks such as cable and copper.

Thinking **World-Care** solutions



The causes are:

- The light signal in the fibre is less attenuated, so that it can be sent over longer distances.
- Fibre networks work at higher speeds than copper networks, so that by using the same amount of energy more information can be sent.
- The production of fibre only needs 0.01% of the CO_2 emission that is required for the same length of copper wire.
- Fibre needs less maintenance.
- Fibre has a very long lifetime and is future-oriented: higher speeds are possible by replacing the equipment, whereby fibre itself can last a long time.

In short:

- **the use of fibre raises the level of digitisation in other sectors, so that they can become greener, but in itself fibre also contributes to a greener society thanks to a lower energy consumption compared to the existing copper and cable networks.**
- **If coupled with low-emission devices, such as compressors, trucks and vans, it can further diminish the carbon footprint of the whole installation process**

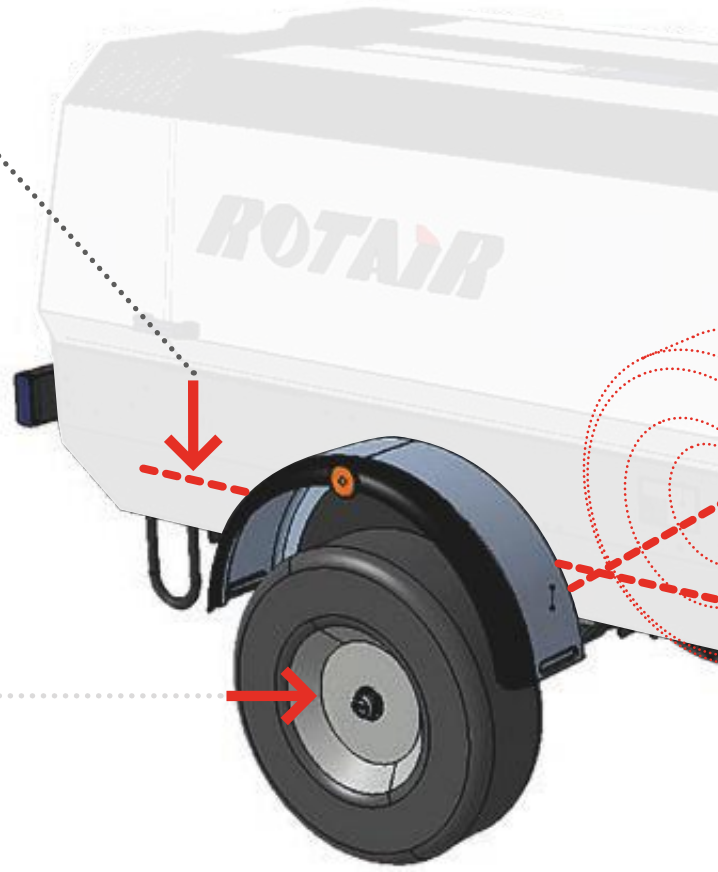
ROTAIR OFFERS
A BROAD PANEL OF TRAILERS, TO MAKE COMPRESSORS EFFECTIVELY PORTABLE.

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.

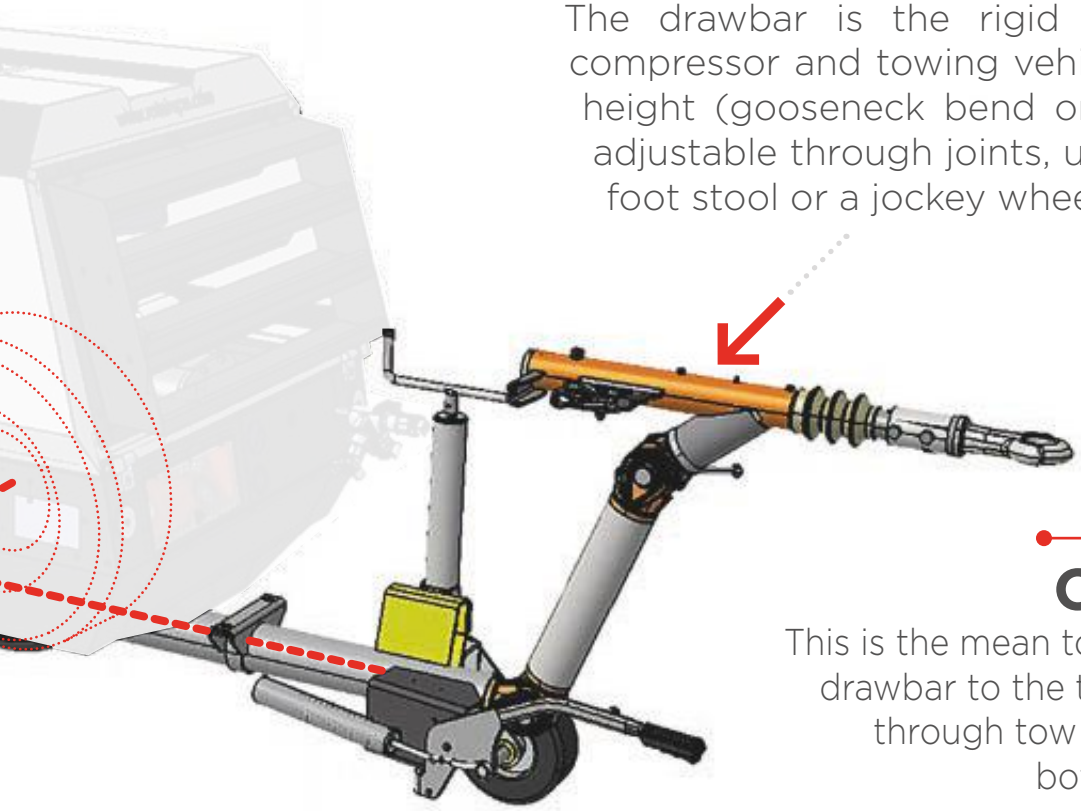


STANDARD TRAILER - MDVN	So-called "gooseneck" for the peculiar shape of the drawbar. Is always without brakes. Enables slow towing (max 25 km/h) on work field but not on public roads.
TRAILER WITH BRAKES – MDVN	Has adjustable drawbar, repulsive braking system, lights. Enables compressor to be towed on 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.

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.

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 concection, both of different diameter.

FRONT HANDLE VRK FIBRA

The VRK FIBRA models are equipped with a front handle that allows easy transport on the rear wheels to move in proximity.

FRONT HANDLE VRK FIBRA PLUS

The VRK FIBRA PLUS models are equipped with a front handle that allows easy transport on the rear wheels to move in proximity.

SKID ADAPTOR

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

ROTAIR

From motorways to digital highways

COMPRESSED AIR

has always played a leading role

IN BUILDING THE NEXT FUTURE

FROM BACKBONE *to* LAST MILE

A COMPLETE PORTFOLIO FOR

FIBRE EXPERTS

VRK FIBRA

15 bar - 218 psi | 1000 lt/min - 35 cfm

MDVN 26 K

14 bar - 203 psi | 1300 lt/min - 46 cfm

MDVN 53 ECO 5

14 bar - 203 psi | 3000 lt/min - 106 cfm

MDVN 53 K

14 bar - 203 psi | 2800 lt/min - 106 cfm

MDVN 83 ECO 5

12 bar - 174 psi | 5600 lt/min - 198 cfm
14 bar - 203 psi | 5000 lt/min - 177 cfm

MDVN 80 Y

12 bar - 174 psi | 4900 lt/min - 173 cfm
14 bar - 203 psi | 4500 lt/min - 159 cfm

MDVS 125 ECO 5

12 bar - 174 psi | 10000 lt/min - 353 cfm

MDVS 120 J-P

12 bar - 174 psi | 9500 lt/min - 335 cfm

ROTAIR

VRK

FIBRA
FIBRA PLUS

INTEGRATED AFTERCOOLER AND MOISTURE SEPARATOR

COMPACT AND EXTREMELY MANEUVERABLE MACHINE DESIGNED FOR EASY ACCESS AND MAINTENANCE.

ALL FILTERS READILY ACCESSIBLE, EASY TO TRANSPORT AND IMMEDIATELY READY TO WORK.

- ROTAIR System for proportional acceleration at air demand:
  - Less noise and consumption
  - Power all declinated to air flow
- Petrol tank in sight & extractable for practical refuelling
- All filters are spin-on / bayonet-type, for faster change
- Intuitive starter / Integrated hours counter / Manometer / Thermostat with safety arrest @ high temperatures
- Start / Stop @ low pressures for longer life of machine and components
- Oversized single cooler for extra cooling of air (FIBRA) Distinct second cooler and fan, for extreme cool air output (FIBRA PLUS).
- Cooling ventilator shielded and protected.
- Muffler under the machine, less noise and avoids risks of accidental burns.

- Lifting eye for crane use. Solid-type wheels. Skid version available on option.
- High efficiency trapezoidal belt-drive, over-dimensioned to ensure transmission with less maintenance.
- Double-stage air / oil separation Lowest oil in air for this category: ≤ 1 PPM!
- Compressor air filter and engine air filter are separated.
- Single stage oversized air filter for compression circuit, to guarantee good filtering of the air intaken by airend.

Conceived for cable laying

Special **FIBRE OPTIC** range

VRK FIBRA

L = 1168 mm / 45.98"
W = 774 mm / 30.47"
H = 955 mm / 37.6"

250 kg / 551 lbs

VRK FIBRA PLUS

L = 1268 mm / 49.94"
W = 774 mm / 30.47"
H = 955 mm / 37.6"

260 kg / 573 lbs

COMPRESSOR

Max operation pressure	**15 bar - 218 psi**
Free Air Delivery	**1000 lt/min - 35 cfm**
Minimum working pressure	**5,5 bar - 80 psi**
Drive system engine-airend	**Belt-drive XPZ overdimensioned**
Compressor cooling system	**Air / Oil**
Oil cooling capacity	**5 lt - 1.1 UK gal**
Outlet valves	**1 x 3/4"**
Noise level EECno 2000/14	**< 97 LWA**
Battery capacity	**12V cc - 330A - 45Ah (EN)**
Fuel tank capacity	**15 lt - 3.3 UK gal**

PETROL ENGINE

Engine make	**HONDA**
Engine type	**GX690**
Engine system	**4 strokes**
Emissions	**Stage V**
Displacement	**690 cc**
N. cylinders	**2**
Aspiration	**Natural**
Max engine power @3600 RPM	**16,5 kW - 22.5 HP**
Max engine speed	**3400 RPM**
Min engine speed	**2000 RPM**
Cooling system	**Air**
Lubrication system	**Oil**
Lubrication system capacity	**1,9 lt - 0.42 UK gal**

QUALITY OF AIR

Oil in air	**≤ 1 PPM**
Compressed air temperature	**Ambient +20°C | +36°F (FIBRA)**
	Ambient +0°C/+2°C | +0°F/+3,6°F (FIBRA PLUS)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

ROTAIR

MDVN 26 K

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

Conceived for cable laying

Special **FIBRE OPTIC** range

- Filters "spin-on" type for quick maintenance
- Full accessibility for easy and rapid maintenance and service.
- European homologation for road circulation with and without brakes.
- 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.
- Air/oil separator filter, highly oversized, can guarantee an excellent air/oil separation.
- 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.
- Two-stage air filter for engine part.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.

MDVN 26 K

L = 2841 mm / 111.83"
W = 1400 mm / 55.08"
H = 1230 mm / 48.43"

540 kg / 1190 lbs (without brakes)

605 kg / 1330 lbs (with brakes)

COMPRESSOR

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

Operating pressure (*)	**14 bar - 203 psi**
Free Air Delivery	**1300 lt/min - 46 cfm**
Minimum working pressure	**5,5 bar - 80 psi**
Drive system engine-airend	**Belt-drive**
Compressor cooling system	**Air / Oil**
Oil cooling capacity	**6 lt - 1.32 UK gal**
Outlet valves	**2 x 3/4"**
Noise level EECno 2000/14	**< 98 LWA**
Battery capacity	**12V cc - 270A - 55Ah (EN)**
Fuel tank capacity	**30 lt - 6.6 UK gal**

DIESEL ENGINE

Engine make	**KUBOTA**
Engine type	**D1105-E4B**
Engine system	**4 strokes - Inline**
Emissions	**Stage V / Tier 4**
Displacement	**1123 cc**
N. cylinders	**3**
Aspiration	**Natural**
Max engine power @3600 RPM	**18,5 kW - 25 HP**
Max engine speed	**3600 RPM**
Min engine speed	**1900 RPM**
Cooling system	**Water**
Cooling system capacity	**4 lt - 0.88 UK gal**
Lubrication system	**Oil**
Lubrication system capacity	**5,1 lt - 1.12 UK gal**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient +5°C | +9°F (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

ROTAIR

MDVN 53 ECO 5

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

Conceived for cable laying

Special **FIBRE OPTIC** range

- Filters "spin-on" type for quick maintenance
- Full accessibility for easy and rapid maintenance and service.
- European homologation for road circulation with and without brakes.
- 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.
- 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.
- Two-stage air filter for engine part.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.

MDVN 53 ECO 5

L = 3122 mm / 122.9"
W = 1520 mm / 59.8"
H = 1490 mm / 58.7"

960 kg / 2116 lbs (without brakes)

1035 kg / 2282 lbs (with brakes)

COMPRESSOR

Operating pressure (*)	**14 bar - 203 psi**
Free Air Delivery	**3000 lt/min - 106 cfm**
Minimum working pressure	**5 bar - 73 psi**
Drive system engine-airend	**Direct drive**
Compressor cooling system	**Air / Oil**
Oil cooling capacity	**10,7 lt - 2.35 UK gal**
Outlet valves	**2 x 3/4"**
Noise level EECno 2000/14	**< 98 LWA**
Battery capacity	**12V cc - 750A - 100Ah (EN)**
Fuel tank capacity	**88 lt - 19.36 UK gal**

DIESEL ENGINE

Engine make	**KOHLER**
Engine type	**KDI 1903 TCR St V**
Engine system	**4 strokes - Inline - Indirect Injection**
Emissions	**Stage V / Tier 4 Final**
Filtration	**DOC + DPF**
Displacement	**1903 cc**
N. cylinders	**3**
Aspiration	**Turbocompress**
Max engine power @2600 RPM	**36,5 kW - 49 HP**
Max engine speed	**2450 RPM**
Min engine speed	**1700 RPM**
Cooling system	**Water**
Cooling system capacity	**14 lt - 3.08 UK gal**
Lubrication system	**Oil**
Lubrication system capacity	**9,75 lt - 2.14 UK gal**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient +5°C | +9°F (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

ROTAIR

MDVN 53 K

Conceived for cable laying

Special **FIBRE OPTIC** range

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

- 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.
- 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.
- Two-stage air filter for engine part.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.

MDVN 53 K

L = 3132 mm / 123.31"
W = 1340 mm / 52.76"
H = 1361 mm / 53.57"

800 kg / 1765 lbs (without brakes)

856 kg / 1888 lbs (with brakes)

COMPRESSOR

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

Operating pressure (*)	**14 bar - 203 psi**
Free Air Delivery	**2800 lt/min - 99 cfm**
Minimum working pressure	**5 bar - 73 psi**
Drive system engine-airend	**Direct-drive**
Compressor cooling system	**Air / Oil**
Oil cooling capacity	**10 lt - 2.2 UK gal**
Outlet valves	**2 x 3/4" + 1 x 1/1"**
Noise level EECno 2000/14	**< 98 LWA**
Battery capacity	**12V cc - 680A - 74Ah (EN)**
Fuel tank capacity	**50 lt - 11 UK gal**

DIESEL ENGINE

Engine make	**KUBOTA**
Engine type	**V-2403-M-DI**
Engine system	**4 strokes - Inline - Direct Injection**
Emissions	**Stage III A / Tier 4 Interim**
Displacement	**2434 cc**
N. cylinders	**4**
Aspiration	**Natural**
Max engine power @3000 RPM	**36,5 kW - 49.0 HP**
Max engine speed	**2700 RPM**
Min engine speed	**1600 RPM**
Cooling system	**Water**
Cooling system capacity	**8 lt - 1.76 UK gal**
Lubrication system	**Oil**
Lubrication system capacity	**9,5 lt - 2.09 UK gal**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient +13°C | +23.4°F (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

ROTAIR

MDVN 83 ECO 5

Conceived for cable laying

Special **FIBRE OPTIC** range

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

- Kohler Stage V-Tier Final compliant, with aftertreatment system DOC+DPF
- Full accessibility for easy and rapid maintenance and service.
- European homologation for road circulation with and without brakes.
- 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.
- 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.
- Two-stage air filter for engine part.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.

MDVN 83 ECO 5

L = 3491 mm / 137.44"
W = 1580 mm / 62.2"
H = 1682 mm / 66.23"

1320 kg / 2910 lbs (without brakes) **1395 kg / 3075 lbs** (with brakes)

COMPRESSOR

Operating pressure	**12 bar - 174 psi**	**14 bar - 203 psi**
Free Air Delivery	**5600 lt/min - 198 cfm**	**5000 lt/min - 177 cfm**
Minimum working pressure	**5 bar - 73 psi**	
Drive system engine-airend	**Direct drive**	
Compressor cooling system	**Air / Oil**	
Oil cooling capacity	**16 lt - 3.52 UK gal**	
Outlet valves	**2 x 3/4" + 1 x 1"**	
Noise level EECno 2000/14	**< 98 LWA**	
Battery capacity	**12V cc - 750A - 80Ah (EN)**	
Fuel tank capacity	**140 lt - 30.80 UK gal**	

DIESEL ENGINE

Engine make	**KOHLER**
Engine type	**KDI 2504-TCR St V**
Engine system	**4 strokes - Inline - Indirect Injection**
Emissions	**Stage V / Tier 4 Final**
Filtration	**DOC + DPF**
Displacement	**2482 cc**
N. cylinders	**4**
Aspiration	**Turbo**
Max engine power @2600 RPM	**55,4 kW - 75.3 HP**
Max engine speed	**2100 RPM**
Min engine speed	**1700 RPM**
Cooling system	**Water**
Cooling system capacity	**18 lt - 3.96 UK gal**
Lubrication system	**Oil**
Lubrication system capacity	**9 lt - 1.98 UK gal**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient +5°C | +9°F (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

ROTAIR

MDVN 80 Y

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

- 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.
- The air and oil filters of the compressor and the air and oil filters of the engine are independent.
- Two stages oversized air filter for compressor part, to guarantee good filtering of the air intake by airend.
- Two-stage air filter for engine part.
- Combined radiator allowing both compressor oil cooling and engine liquid cooling.

Conceived for cable laying

Special **FIBRE OPTIC** range

MDVN 80 Y

L = 3491 mm / 137.45"
W = 1580 mm / 62.20"
H = 1680 mm / 66.14"

1240 kg / 2734 lbs (without brakes)

COMPRESSOR

Operating pressure	**12 bar - 174 psi**	**14 bar - 203 psi**
Free Air Delivery	**4900 lt/min - 173 cfm**	**4500 lt/min - 159 cfm**
Minimum working pressure	**5,5 bar - 80 psi**	
Drive system engine-airend	**Direct drive**	
Compressor cooling system	**Air / Oil**	
Oil cooling capacity	**16 lt - 3.52 UK gal**	
Outlet valves	**2 x 3/4" + 1 x 1"**	
Noise level EECno 2000/14	**< 98 LWA**	
Battery capacity	**12V cc - 750A - 100Ah (EN)**	
Fuel tank capacity	**92 lt - 20.24 UK gal**	

DIESEL ENGINE

Engine make	**YANMAR**
Engine type	**4TNV 98-hsap**
Engine system	**4 strokes - Inline - Direct Injection**
Emissions	**Stage II A / Tier 2**
Displacement	**3519 cc**
N. cylinders	**4**
Aspiration	**Natural**
Max engine power @2500 RPM	**50,7 kW - 68.9 HP**
Max engine speed	**2500 RPM**
Min engine speed	**1500 RPM**
Cooling system	**Water**
Cooling system capacity	**12 lt - 2.64 UK gal**
Lubrication system	**Oil**
Lubrication system capacity	**9,5 lt - 2.09 UK gal**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient ND | ND (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

MDVS 125 ECO 5

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

Conceived for cable laying

Special **FIBRE OPTIC** range

- 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.
- 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 125 ECO 5

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

1900 kg / 4188 lbs (without brakes) **2045 kg / 4508 lbs** (with brakes)

COMPRESSOR

Operating pressure	**12 bar - 174 psi**
Free Air Delivery	**10000 lt/min - 353 cfm**
DUAL PRESSURE	**AVAILABLE**
Minimum working pressure	**5,5 bar - 80 psi**
Drive system engine-airend	**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**

DIESEL ENGINE

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 - 144 HP**
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**

QUALITY OF AIR

Oil in air	**1-3 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**
	Ambient ND | ND (PLUS AFTERCOOLER)

ENVIRONMENTAL CONDITIONS

Max altitude	**1800 m a.s.l.**
Min/Max working temperature	**-10°C / +50°C | 14°F / 122°F**

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.

LIGHT WEIGHT AND COMPACT DIMENSIONS FOR EASY HANDLING AND OPTIMUM DIMENSIONS / DELIVERED POWER RATIO.

Conceived for cable laying

Special **FIBRE OPTIC** range

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- 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.
- 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 120 J	MDVS 120 P
	L = 4524 mm / 178.12" W = 1975 mm / 77.76" H = 2191 mm / 86.26"	L = 4524 mm / 178.12" W = 1975 mm / 77.76" H = 2191 mm / 86.26"
	1920 kg / 4233 lbs (without brakes) 2020 kg / 4453 lbs (with brakes)	1920 kg / 4233 lbs (without brakes) 2020 kg / 4453 lbs (with brakes)
COMPRESSOR		
Operating pressure	**12 bar - 174 psi**	**12 bar - 174 psi**
Free Air Delivery	**10000 lt/min - 353 cfm**	**9500 lt/min - 335 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**
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 - 132Ah (EN)**
Fuel tank capacity	**150 lt - 33 UK gal**	**150 lt - 33 UK gal**
DIESEL ENGINE		
Engine make	**JCB**	**PERKINS**
Engine type	**444 - TCA**	**1104C-44TA**
Engine system	**4 strokes - Inline**	**4 strokes - Inline**
Emissions	**Stage II / Tier 2**	**Stage II / Tier 2**
Displacement	**4400 cc**	**4400 cc**
N. cylinders	**4**	**4**
Aspiration	**Turbo Intercooler**	**Turbo Intercooler**
Max engine power @2200 RPM	**93 kW - 126 HP**	**97 kW - 132 HP**
Max engine speed	**2200 RPM**	**2200 RPM**
Min engine speed	**1600 RPM**	**1600 RPM**
Cooling system	**Water**	**Water**
Cooling system capacity	**22 lt - 4.84 UK gal**	**25 lt - 5.5 UK gal**
Lubrication system	**Oil**	**Oil**
Lubrication system capacity	**14 lt - 3.08 UK gal**	**8 lt - 1.76 UK gal**
QUALITY OF AIR		
Oil in air	**≤ 1 PPM**	**≤ 1 PPM**
Compressed air temperature	**Ambient +40°C | +72°F**	**Ambient +40°C | +72°F**
	Ambient +10°C | +18°F (Plus Aftercooler)	**Ambient +10°C | +18°F (Plus Aftercooler)**
ENVIRONMENTAL CONDITIONS		
Max altitude	**1800 m a.s.l.**	**1800 m a.s.l.**
Min/Max working temp.	**-10°C / +50°C | 14°F / 122°F**	**-10°C / +50°C | 14°F / 122°F**

SPECIAL

FIBRE OPTIC

RANGE | *Conceived for cable blowing*

WARRANTY
DURATION
RELIABILTY

are assured with
THE EXCLUSIVE USE
of original spare parts

GENUINE SPARE PARTS PROGRAM

ROTAIR®
Delivering **WORLD CLASS** *Compressors*

SPECIAL FIBRE OPTIC

RANGE | *Conceived for cable blowing*

ROTAIR
Delivering **WORLD CLASS** *Compressors*

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