
OFTEC
DDF 160-MB-3000

OFTEC

Established in 1996 by Christian Streck, OFTEC GmbH is a SME sized company based in one of the industrial centers of Germany.

Main business area of OFTEC is development of industrial level robotic systems for paint and coating removal driven by UHP or heat induction systems.

Robotic crawler systems for industrial grade surface preparation are the foundation of OFTEC business. Operator protection by wireless remote control in combination with highly efficient processing of abrasive materials and liquid filtering by OFTEC technologies helps to reduce waist and machine downtimes.

During large scale paint and coating removal projects stages in industrial environments automated system technology by OFTEC is economically more effective than manual work.

OFTEC crawler systems are available for rental and sales. Crawler are used in combination with UHP systems or heat induction systems for shipyards, offshore, storage tanks/chemical industry, public bridges and power plant applications. The magnet-crawler-robots are used for removal of coating or paint on metal surfaces.

Robots are remotely controlled by an operator from a safe position. By adaptation to various UHP pumps up to 3.000 bar in combination with our own nozzle layout and technology to remove the waste we are able to provide a complete range of equipment tailored for specific applications. The crawler system might be used also for other applications as cutting, blasting and inspection work. Held by magnetic forces the robotic system will work in all directions and might also be adapted to work inside of pipelines/tubes.

OFTEC magnet-crawler-based robotic systems are the preferred solution for coating removal at demanding surfaces and materials.

Magnet - Crawler

Magnet-Crawler

The Magnet Crawler is a carrier vehicle. It consists of an aluminium lightweight construction. The carrier construction includes two drive units. By magnetic force the Crawler is held on the steel surfaces to be treated. The magnets that are used are encapsulated in seawater resistant stainless steel and have a high adhesion force. This enables, among others, the work with high water pushback forces.
The electric (optionally pneumatic) drives enable an infinitely variable drive speed. The control is done via a remote control.

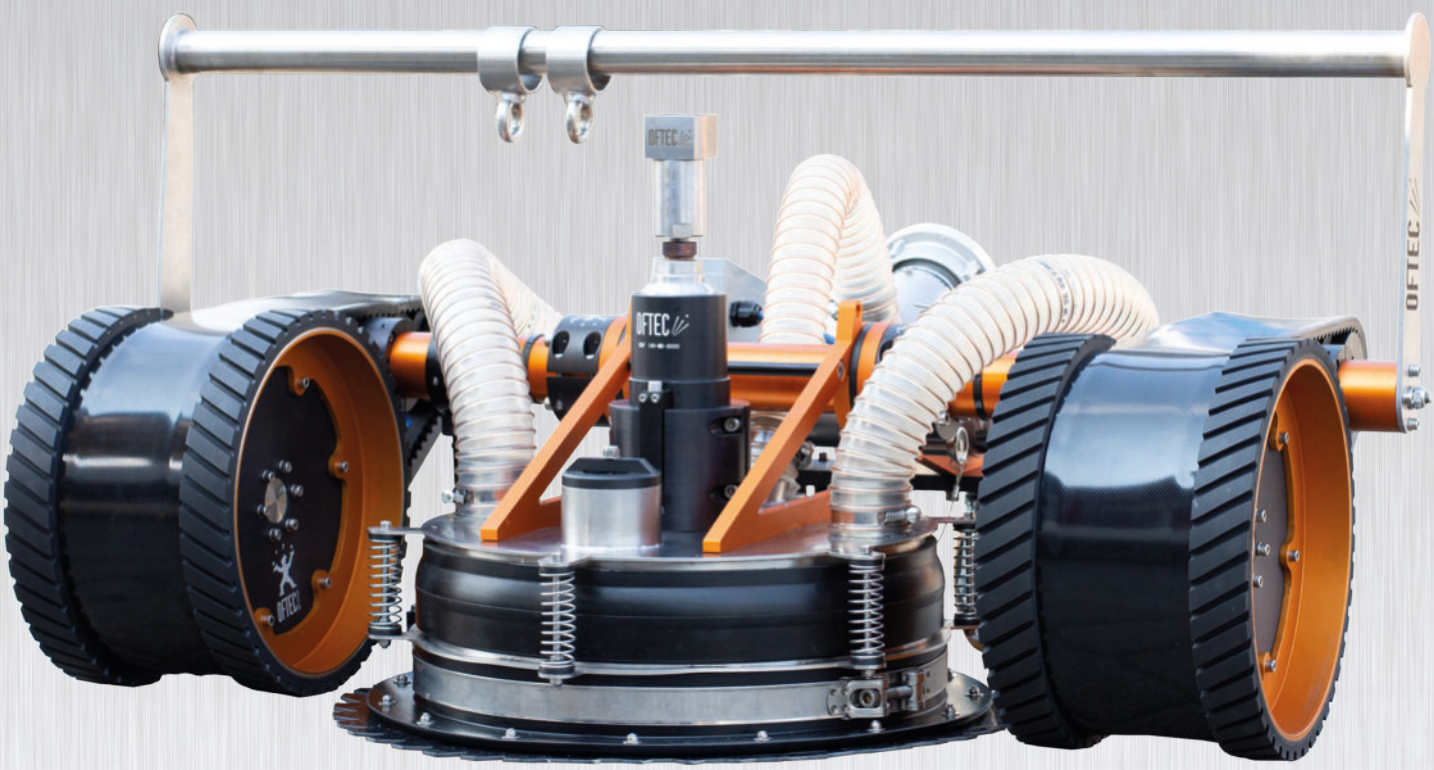
Applications

Actually the crawler is mainly used for cleaning of large tanks and ships in combination with high-pressure water up to 3000 bar. Optionally the waste water can be collected directly in combination with the removed material, this might be recycled on request with an additional filter system by OFTEC. Furthermore, there is an option to use the crawler for other applications, e.g. cutting, blasting and inspecton (camera) work.

Advantages

Scaffolding of objects becomes unneccessary subsequently saving time and costs. Because the crawler is operated and controlled remotely, continuous and fast workflows are possible. Using a crawler in combination with high-pressure water will increase the working speed in comparison to a handheld tool by the factor of five. While it is possible to work from a greater distance in addition operator safety is ensured.

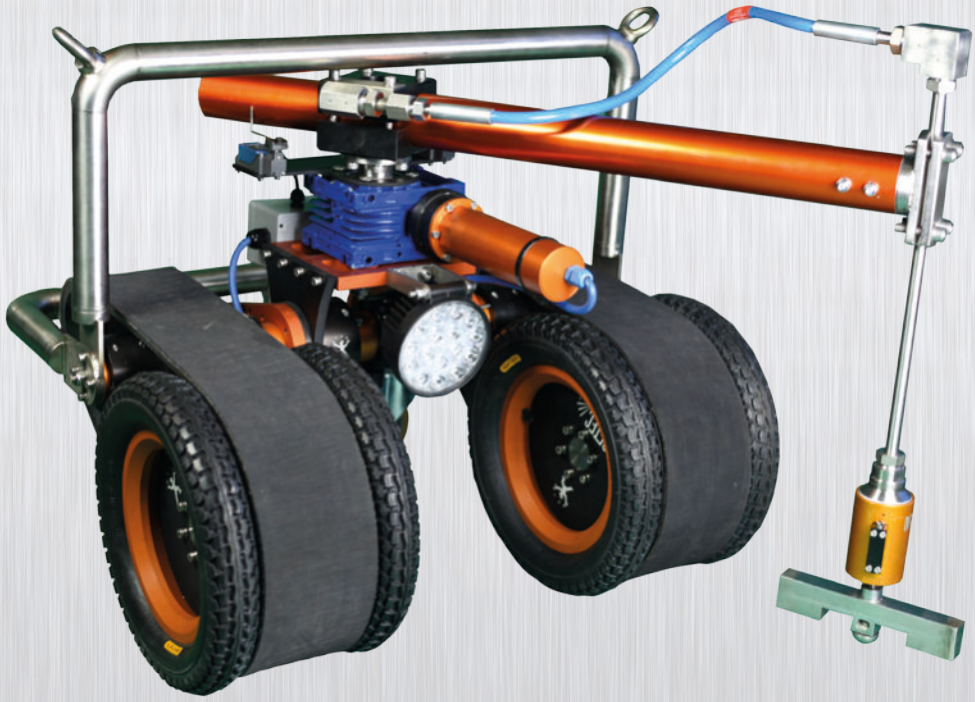
VacuMag 3000



Technical Data VacuMag

Working pressure:	up to 3000 bar / 45 l/min.
Working width:	400 mm
Magnets:	Permanent magnets, encapsulated in stainless steel
Operating voltage, motors:	36 V
Weight robot:	ca. 96 kg plus Swivel
Scope of supplied control:	Switchbox on carriage, compl. in stainless steel Radio-controlled remote, 50 m cable
Weight Control box:	45 kg
Dimensions:	(H,W,L) 1200 mm x 600 mm x 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65

UniMag 3000



Technical Data UniMag Magnet Crawler

Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	170 mm
Swing boom:	up to 1500 mm
Magnets:	Permanet magnets, encapsulated in stainless steel
Operation voltage, motors:	36 V
Weight robot:	ca. 72 kg
Dimensions:	(H, W, L) 700 mm x 680 mm x 580 mm
Scope of supplied control:	Switchbox on carriage, compl. in stainless steel Radio-controlled remote, 50 m cable
Weight Control box:	45 kg
Dimensions:	(H, W, L) 1200 mm x 600 mm x 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65

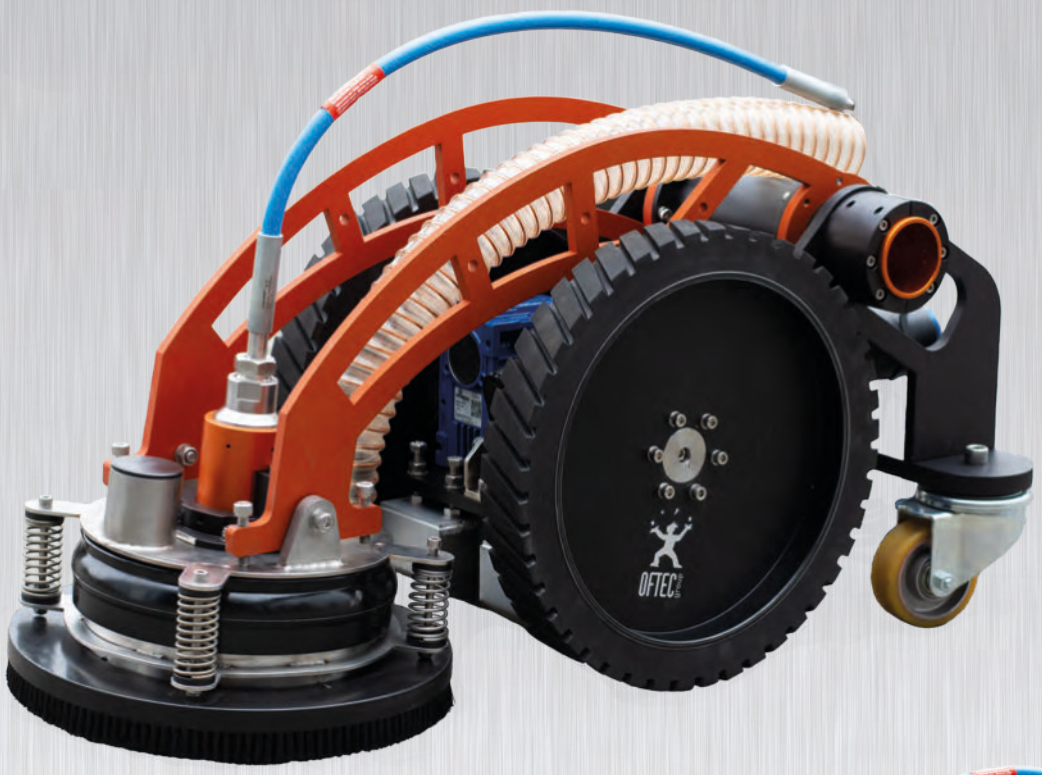

SANDBLAST

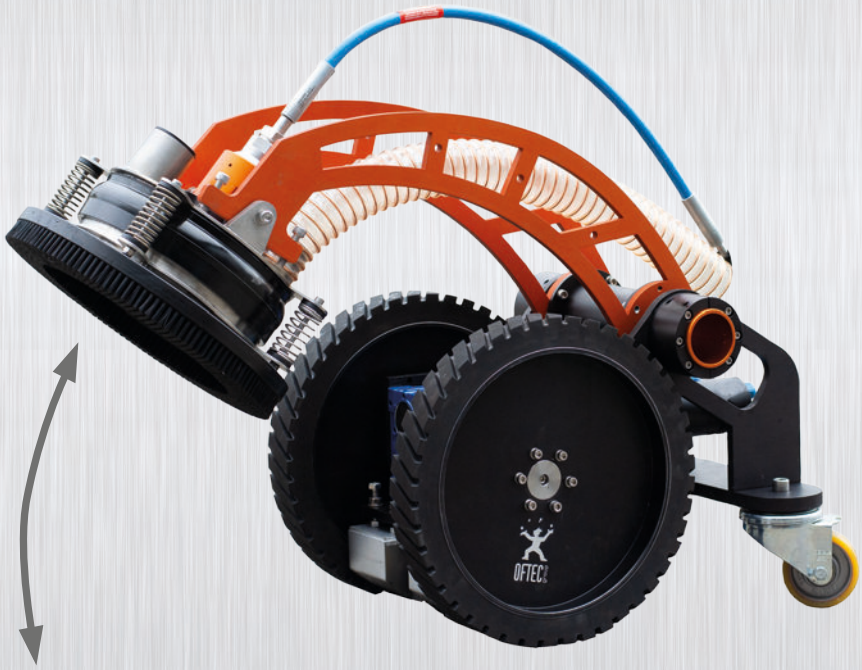
CUBE S3

Technical Data CUBE S3

Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	up to 170 mm
Swing boom:	up to 1500 mm
Lifting Adjustment:	high 400 mm, deep 250 mm
Magnets:	Permanet magnets, encapsulated in stainless steel
Operation voltage, motors:	36 V
Weight robot:	ca. 68 kg
Dimensions:	(H, W, L) 650 mm x 330 mm x 530 mm
control:	Radio-controlled remote, 50 m cable
Weight Control box:	45 kg
Dimensions:	(H, W, L) 1200 mm x 600 mm x 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65

CUBE V3





Technical Data CUBE S3

Working pressure:	up to 2500 bar / 45 l/min. up to 3000 bar / 30 l/min.
Working width:	up to 170 mm
Swing boom:	up to 1500 mm
Lifting Adjustment:	high 400 mm, deep 250 mm
Magnets:	Permanet magnets, encapsulated in stainless steel
Operation voltage, motors:	36 V
Weight robot:	ca. 68 kg
Dimensions:	(H, W, L) 650 mm x 330 mm x 530 mm
control:	Radio-controlled remote, 50 m cable
Weight Control box:	45 kg
Dimensions:	(H, W, L) 1200 mm x 600 mm x 600 mm
Electrical CEE plug:	110 - 230 V
IP protection class:	IP 65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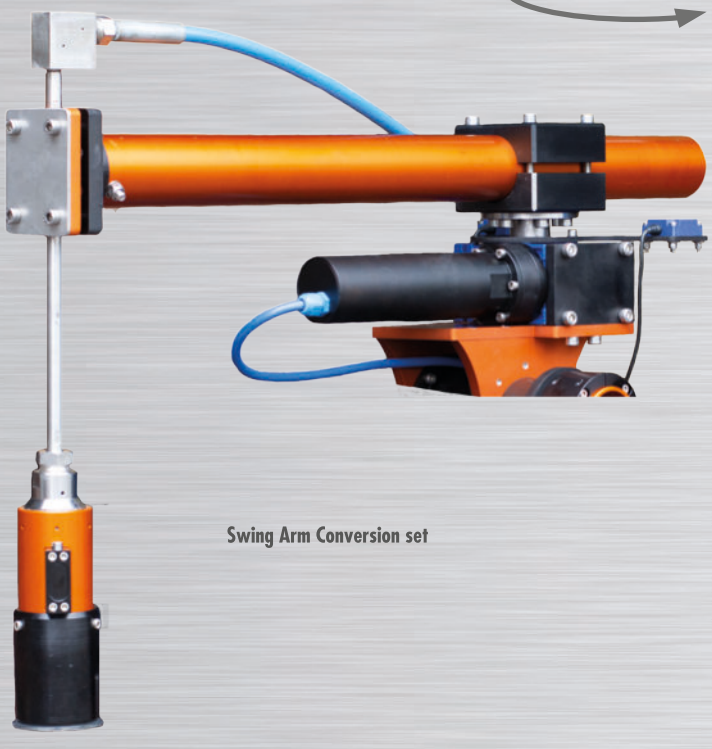
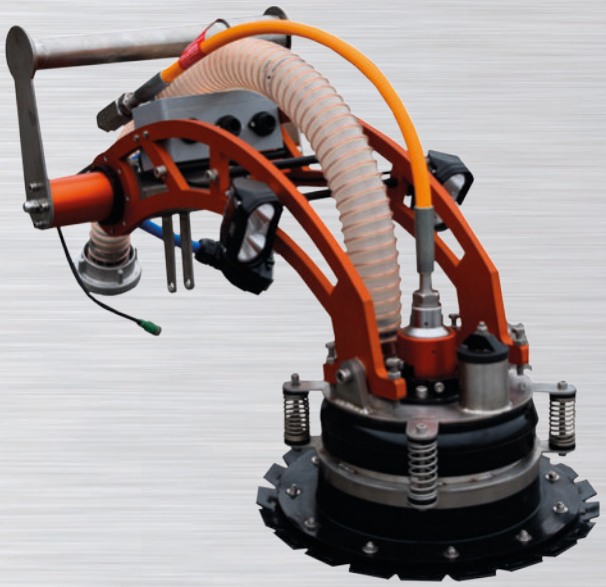
Accessoires

Swing Arm: SA 3

Swing Arm Radial: SA 3R



Swing Arm Conversion set



Vacuum Conversion set: VC 3

Winch System for Magnetic Crawlers

VacumMag 3000
UniMag 3000
CUBE S3
CUBE V3

CleanMaster 3000

Handheld Watertool

Technical Data CleanMaster 3000 L

Working pressure:	up to 3000 bar / 40 l/min.
Working width:	400 mm

Technical Data CleanMaster 3000 S

Working pressure:	up to 3000 bar / 30 l/min.
Working width:	200 mm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CleanMaster 3000

DDF 160 MB

Technical Data DDF 3000 MB

Working pressure:	up to 3000 bar / 45 l/min.
Form nozzle shape:	21
Speed:	550 - 3500 1/min
Medium temperature:	max. 95 C
Nozzle:	M10
Weight:	9,5 kg

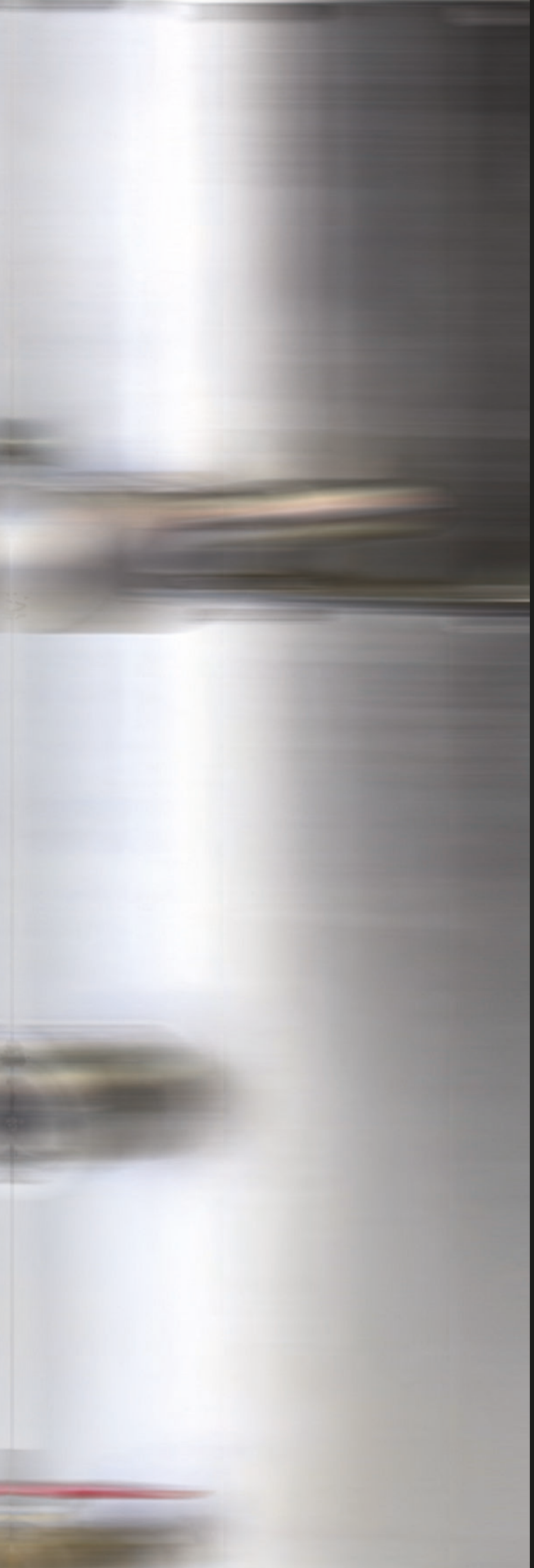
TDS 3000 MB

Technical Data TDS 3000 MB

Working pressure:	up to 3000 bar / 45 l/min.
Form nozzle shape:	21
Speed:	550 - 3500 1/min
Medium temperature:	max. 85 C
Nozzle carrier:	RD - 03 from Titan
	RD - 06 from Titan
Nozzle:	M10
Weight without carrier:	1,45 kg

Typical applications

Surface preparation:
- Cleaning
- Roughening
- Removing coatings
- Concrete demolishing



Modular Suction System

The OFTEC suction system consists of several modules that can be assembled depending on the requirement /usage.
So far there are 4 models available. The modular system is constantly being expanded.
The system is intended for to suck up wet stand, blasting material, slurries and water.
The suction modules are available in pneumatic and electric version, with different outputs.
The Kontisilo is a double flap silo that empties automatically and thus makes possible continuous suction. The sucked up wastewater is emptied into a container. From there it can be transported by a membrane pump. For the sucking of wet sand, blasting material and slurries a version with Big Bag-Holder is available.
Through the use of the jetfilter the contaminated air that is being sucked up with the medium can be cleaned.
It is utilized when sucking sand, blasting material and slurries.
All modules are made from stainless steel.

Modular Suction System

Module I - Double valve silo

Function principle:	Cyclone separator
Discharge container volume:	45 litres
Supply voltage:	230 V / 50Hz
Control voltage:	24 V / DC
Pneumatic operating pressure:	6 – 12 bar

Module III - Air Vacuum Suction Device

Version A / Single suction head

Air transport volume:	700 m³/h
Under-pressure:	p=500 mbar
Compressor power:	8 bar at 8 m³/min
Pneumatic operating pressure:	6 – 12 bar

Version B / Twin suction head

Air transport volume:	1.400 m³/h
Under-pressure:	p=500 mbar
Compressor power:	8 bar at 16 m³/min
Pneumatic operating pressure:	6 – 12 bar

Module II - Jet Filter

Cleaning:	automatic compressed air cleaning cycle
Discharge container volume:	30 litres
Supply voltage:	230 V / 50Hz
Control voltage:	24 V / DC
Pneumatic operating pressure:	6 – 12 bar

Modul IV – Electric Suction Device

Version A / 11 KW

Air transport volume:	700 m³/h
Under-pressure:	p=400 mbar
Supply voltage:	32 A

Version B / 22 KW

Air transport volume:	1.400 m³/h
Under-pressure:	p=400 mbar
Supply voltage:	63 A

Version C / 33 KW

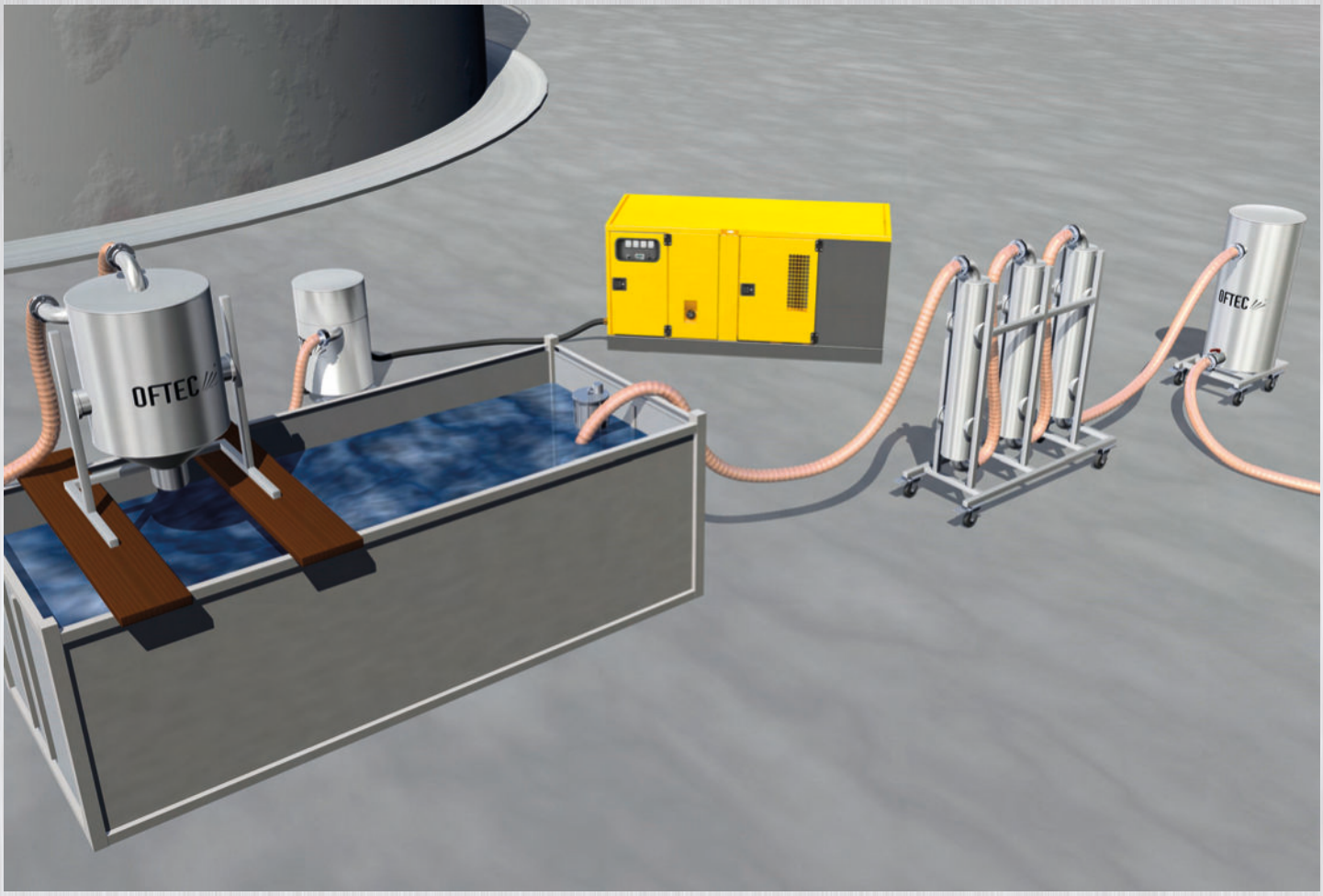
Air transport volume:	2.100 m³/h
Under-pressure:	p=400 mbar
Supply voltage:	400 V / 50 Hz

Bag filter BF-80

Weight: 33 kg
Dimensions: (L,B, H) 310 mm x 320 mm x 13600 mm
Filter medium: Bag filter 1-50 micron

Activated carbon filter AF-600

Weight: 120 kg
Dimensions: (L,B, H) 790 mm x 620 mm x 17000 mm
Volumen: 340 Ltr.



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