

GB

PRODUCT RANGE



ROBUSCHI®

PUMPS • BLOWERS & COMPRESSORS



With over 60 years of history Robuschi is capable of combining, in the best possible manner, experience with the most advanced technological innovations. At the beginning activity was the gal pumps that in agriculture. The and financial commenced between the 60s and the 80s. The innovation continued throughout the 90s and with the passing of the new millennium, production stayed one step ahead of customer's needs.



in 1941, the main repair of centrifug were mainly used production, design growth com-

In 2010 the new **ROBOX screw** "oil free" compressor has been launched. It is the perfect combination of the market requests: low energy consumption and silent operation.

The company is located in Parma, and the premises cover a surface area of 90.000 and the production is divided into three families of products:

SCREW COMPRESSORS

(series RSW – ROBOX screw)

P.D. BLOWERS

(series RBS – ROBOX EVOLUTION – RB-DV – RBS/AV)

LIQUID RING VACUUM PUMPS





(series RVS – VACUUM UNIT)

CENTRIFUGAL PUMPS:

**FOR CHEMICAL PROCESS (PROCHEM)
FOR SLURRY (PROMIX)**



SECTORS OF APPLICATION

	 Screw Compressors	 P.D. Blowers	 Vacuum pumps	 Centrifugal pumps
food industry	■	■	■	■
building sites				■
paper industry	■	■	■	■
cement factories	■	■		
thermo-electric power stations	■	■		■
chemicals and petrochemicals	■	■	■	■
tanning	■	■	■	■
detergents			■	■
desalination plants		■		■
pharmaceuticals	■		■	■
wood	■	■	■	■
mining	■	■		■
nautical			■	■
hospitals			■	
plastics	■	■	■	
industrial cleaning	■	■	■	
sugar industry			■	
textiles	■	■		■
pneumatic transport	■	■		
water treatment	■	■		■
glass industry	■		■	

DISTRIBUTION NETWORK

ROBUSCHI

Robuschi S.p.A.
PARMA - ITALY

ROBUSCHI

GERMANY

ROBUSCHI

FRANCE

ROBUSCHI

DENMARK

ROBUSCHI

BENELUX

ROBUSCHI

CHINA

ROBUSCHI

USA Inc.

ROBUSCHI

do BRASIL

The Robuschi sales network has a capillary distribution system that covers the whole of the country, with two local branch headquarters situated in Milan and Padova.

In the rest of the world, Robuschi has seven branch offices in Germany, Denmark, France, Holland, USA, China and do Brasil and over 50 distributors/agents serving 70 different countries.

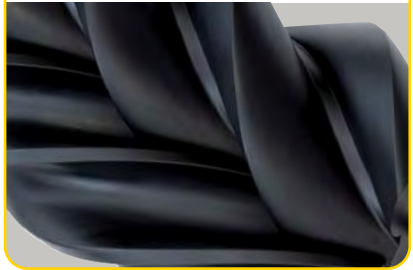


SCREW COMPRESSORS



RSW

The **RSW** compressor is the combination of a careful and precise analysis of market changes, such as processing and waste water treatment industry, as well as of the clients' constantly evolving needs, and of Robuschi experience in low pressure combined with constant R&D activity. For these reasons, RSW is designed and developed by Robuschi: from the definition of the rotors' profile to the complete development of the compressor, which was expressly optimised to reach pressures of 2.5 bar (g).



ROBOX
SCREW



SCREW COMPRESSORS



ROBOX SCREW

The low-pressure compressor unit, **ROBOX screw**, combines unique characteristics of the “oil-free” RSW screw compressor, with the consolidated characteristics of ROBOX compact units.



Efficient: The Robuschi profile of the rotors (patent pending) allows the maximum efficiency at a reduced number of rounds with consequent energy savings.

Silent operation: The high internal compression efficiency ensures a low noise emission of the compressor which, thanks to its special silencers and noise enclosure, allows ROBOX SCREW to reach a sound pressure level < 70 dB(A).

Simple: The experience acquired in the low-pressure sector, allowed Robuschi to develop ROBOX screw in an innovative way. This resulted in a considerable reduction in the number of parts of the compressor itself.

Compact: RSW construction simplicity and a careful analysis of the layout of ROBOX SCREW components, ensure reduced dimensions compared to other standard compressors.

Flexible: The use of a belt drive allows the supply of the correct capacity required by the application. Moreover, it also allows the installation of the motor that is most suitable for the compressor absorbed power with, as a result, an operation at the point of best efficiency.

Reliable: The accurate analysis and the meticulous choice of each components of the compressor, as well as the low operating speed, guarantee ROBOX SCREW high reliability; whereas the control panels SENTINEL 2 or SENTINEL PRO ensure the optimal operation of the machine thanks to the constant monitoring of the operating parameters.

	CAPACITY - m ³ /h	POWER - kW	SOUNDPROOFING
ROBOX SREW	up to 10500	up to 600	< 70 dB(A)

P.D. BLOWERS



RBS

RBS is the innovative positive displacement rotary blower with three special profile lobes and LOW-PULSE system configuration.



ROBOX evolution

ROBOX evolution is an integrated compression unit designed to convey gas at low pressure, based on the RBS lobe positive displacement rotary lobe blower, operated by an electric motor, including all accessories and noise enclosure.

Noiseless operation: the noise level is 7 d B(A) lower than that of the previous series under all operating conditions.

Ease of inspection: maintenance operations can be carried out from the front by removing the front panel and/or opening the top panel.

Monitored operation: ROBOX evolution is designed for the installation of the new Robuschi electronic control system, SENTINEL, that anticipates, records and signals every malfunction.

Compact: ROBOX evolution has reduced dimensions and limited overall sizes. For this reason several ROBOX evolution can be placed side by side thereby significantly reducing the space they require and therefore the dimensions of the blower room.

ROBOX evolution ES 5



easy oil change and level check



	CAPACITY - m ³ /h	POWER - kW	SOUNDPROOFING
ROBOX evolution group	from 30 to 10500	up to 250	< 80 dB(A)
SPECIALS groups	from 2500 to 25000	up to 600	

ROBOX evolution

BIOGAS

ROBOX evolution BIOGAS is the blower package new solution, especially developed for the conveying and compression of biogas, as well as natural and landfill gases.



AIR INJECTION VACUUM BLOWER



RB-DV

The **RB-DV** series consists of 3 lobe rotary blowers used as exhausters which makes it possible to reach a high compression ratio by means of a **patented atmospheric air injection device ROBUSCHI** that reduces overheating of the gas and the power absorbed by the blower.



RB - DV

Maximum Vacuum	93% - 28"Hg
Capacity	from 840 to 10500 m ³ /h
Suction pressure	up to 100 mbar abs/ -900 mbar
Characteristics	Continual functioning even with the ASPIRATION INLET CLOSED

TRB-DV

TRB-DV are compact units equipped with **noise enclosure** for **applications on mobile units** with tanks for the disposal of solids and liquids, capable of working in vacuum function for tank filling and in pressure for the subsequent emptying of the tank.



HIGH VACUUM BLOWER



RBS/AV

The **RBS /AV** blowers are rotary lobe blowers used to increase the capacity of the primary vacuum pumps when operating at their minimum suction pressure (as a booster).



RBS/AV

Suction pressure	from 0.01 to 20 mbar abs.
Suction capacity	from 300 to 9400 m ³ /h

LIQUID RING VACUUM PUMPS



RVS

The **RVS** vacuum pumps are liquid ring pumps capable of achieving a very high vacuum level and suck gas and vapours; the gas compression is practically isothermal and they require minimum maintenance. Robuschi can supply complete groups with liquid ring vacuum pumps (**LRVS**, **CRVS**, **KRVS**) with total or partial water and oil circulation. They can also be used as compressors for pressures up to 2 bar g. max



RVS 3-16/M; RVS 7-21/SG; RVS 23-60

Suction pressure

up to 33 mbar abs.

Suction capacity

up to 4200 m³/h



ORVS

ORVS is the new unit with total oil recirculation: compact, modular and easy to install.



CENTRIFUGAL PUMPS



The line of Robuschi centrifugal pumps, recently renewed with a fluidodynamic design and a consequent increase in performance, capacity and efficiency, are of two families: **PROCHEM** and **PROMIX**.

	RNS	RKNS	RACNS	RCNS-RCPNS	RKCS
Capacity (max)	260 m ³ /h	110 m ³ /h	2000 m ³ /h	1000 m ³ /h	700 m ³ /h
Discharge head (max)	140 m	60 m	80 m	75 m	75 m
Pressure (max)	16 bar	16 bar	10 bar	10 bar	10 bar
Temperature	from -50 to 280 °C	from -50 to 280 °C	from -30 to 170 °C	from -30 to 170 °C	from -30 to 170 °C

PROCHEM



The **PROCHEM** family is subdivided into two series:

RNS with closed impeller: suitable for moving clean or slightly turbid liquids and mainly used in the chemical and petrochemical industries;

RKNS with recessed open impeller suitable for moving liquids with suspended solid particles or filament impurities and used mainly in the chemical and petrochemical industries.



PROMIX



The **PROMIX** family is subdivided into three series:

RACNS series with open channelled impeller: generally used in the paper, sugar and food industries;

RCNS - RCPNS series with closed channelled impeller: generally used in the paper and sugar industries and in the waste water treatment plants;

RKCS series with recessed open impeller: generally used in the paper and sugar industries and in the waste water treatment plants.



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It is policy of Robuschi to always improve its products and the right is reserved to alter specifications at any time without prior notice.

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