With over 60 years of history, Robuschi are capable of combining, in the best possible manner, their experience with the most advanced of technological innovations. At the beginning of 1941, their main activity was the repair of centrifugal pumps that were mainly used in agriculture. Their production, design and financial growth commenced between the 60s and the 80s. In fact, they have established themselves at a national and international level with the production of the 3 product lines: chemical and industrial centrifugal pumps; channel pumps for waste water; liquid ring vacuum pumps; low pressure positive displacement compressors (“blowers”). The innovations introduced at a production level and the investments made on new markets are the launching pads to arrive to the pre-set targets. The company efforts tend to make this occur under a partnership condition within and outside the company, through the professional growth of its employees and the enhancement of customer relations.
### PRESSURE-VACUUM OPERATION (15 psig to 15” Hg)

**LOBE BLOWERS**
Low pressure 3 lobe rotary blower with patented system, LOW PULSE, to eliminate pressure and delivery pulsation.

**BLOWER UNIT**
Compact low pressure compression unit with RBS lobe blower.

**TABLE TOP BLOWER PACKAGE**
Traditional low pressure compression unit with RBS lobe blower.

### VACUUM OPERATION (15 psig to 27” Hg)

**AIR INJECTION VACUUM BLOWER**
3 lobe rotary blower, vacuum operation, equipped with a ROBUSCHI patented atmospheric air injection cooling system.

**COMPACT UNIT WITH AIR INJECTION VACUUM BLOWER**
Compact unit for vacuum operation with RB-DV air injection vacuum blower, suitable for fixed vacuum pneumatic transport and centralised vacuum systems.

**UNIT WITH AIR INJECTION VACUUM BLOWER FOR MOBILE APPLICATIONS**
Compact unit with RB-DV air injection vacuum blower, equipped with soundproof Enclosure for application on mobile units.

### HIGH VACUUM (.075 Torr/.001 mbar abs.)

**HIGH VACUUM BLOWERS**
3 lobe rotary blower used in series with a primary vacuum system in high vacuum systems.
**Safety:** high efficiency operation of the gears is guaranteed by the oil splash lubrication system with discs coupled to the drive shaft.

**Strong and silent:** helical tooth synchronising gear with ground surfaces and involute profile.

**Reliability and efficacy:** the rotor shaft are sealed with our innovative labyrinth seal coupled to oil splash discs and ensures the flow of oil free gas maintaining its long lasting efficiency not having parts that are subjected to wear.

**Long life bearings:** reinforced rolling type, calculated for a theoretical lifespan of 100,000 hours under the most severe operating conditions.

**High performance:** oversized shafts that allow higher operating pressures and rotation speeds.

**Peak volumetric efficiency:** the ground profile of the rotors ensures extremely reduced clearances.

The grinding of the rotors and subsequent three-dimensional control ensure the highest performances.

RBS in ATEX version, available on request.

The precision milling and boring of the blower casing guarantee reduced tolerances and higher efficiency.

**RBS** is the innovative positive displacement rotary blower with 3 special profile lobes that, combined with a new configuration of the LOW-PULSE system, reduces the residual pressure pulsation of the conveyed gas below 2% of the operating pressure.
**COOLED BLOWER**

The blower is equipped with dual cooling coils that keep the oil temperature below 100°C / 32°F in all operating conditions. This version is recommended when the gas discharge temperature exceeds 140°C / 284°F. Available only from the RBS 75 size in the vertical version - V.

**BLOWER WITH SPECIAL COATING**

Two types of coating are available for components in contact with the conveyed liquid (casing, sides and rotors) when aggressive:

- Synthetic resin based: prevents the contamination of parts from the conveyed gas.
- Nickel and phosphorus alloy: prevents the chemical aggression of parts from the conveyed gas.

(* contact Robuschi to check for compatibility)

**BLOWER WITH SPECIAL SEALS**

**Single mechanical seal**

The blower is equipped with a single mechanical seal on the drive shaft instead of the standard seal. The single mechanical seal is used when the blower’s suction pressure is higher than 100 mbar (e.g.: blowers in closed nitrogen circuits).

TMS-V: only available from RBS 35 size up.
TMS-H: only available from RBS 75 size only up.

**Lip seal**

The blower is equipped with four glass reinforced PTFE lip seals on the rotor shafts instead of the standard seals. These seals prevent contact between the lubricating oil and the conveyed gas (e.g.: vapour or other gases that are incompatible with oil).

Available only from RBS 35 size up.

**Double mechanical seal**

The blower is equipped with four double mechanical seals on the rotor shafts instead of the standard seals and externally lubricated through the circulation of a compatible liquid (usually water). These prevent contact between the lubricating oil and the conveyed gas. Available from the RBS 115 size up and in the vertical flow version - V only.

**Gland seal**

The blower is equipped with four gland seals on the rotor shafts instead of the standard seals for external injection of cooling fluid (normally water). These prevent contact between the lubricating oil and the conveyed gas. Available from the RBS 115 size up and in the vertical flow version - V only.
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 through a special belt drive, including all accessories and noise enclosure.

The complete range of Robuschi blower units includes RBS blower sizes from 15 to 165, all with the innovative characteristics of the ROBOX evolution compression unit.

These characteristics reduce: system costs thanks to the optimisation of space; running costs thanks to the low energy consumption and to the exclusion of all standstill risks ensured by the innovative electronic control system SENTINEL; maintenance costs thanks to the easy access to all parts for normal service operations.

ROBOX evolution in the ATEX version, available on request.

Easy oil change: the oil is changed from outside the acoustical enclosure by means of two tanks, one for each oil sump. The consequent drain of exhausted oil is done through specific draining valve.

Oil level monitor: the oil level can be checked during blower operation from outside the enclosure, by means of level gauges positioned on the filler tanks.

Transport Access Fixtures: for efficient handling and transport of the enclosure system.

Hot air and relief valve discharge.

Noise enclosure:
- upgraded of the air inlets and outlets;
- panels with dual reactive sound insulation.

ROBOX evolution ES 5
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, thus also decreasing system costs.

ROBOX evolution allows maintenance operations to be carried out in an even easier and effortless:

• **simplified access**: all maintenance operations are performed from the front with the removal of the front panel or panels and/or the opening of the upper panel with gas springs;

• **effortless adjustment and replacement of soundproof filter SPF**: by simply opening of the noise enclosure’s upper panel (or removal of the front panel);

• **immediate oil level check**: the oil level can be checked externally with the blower running, by means of levels positioned on the front panel of the enclosure;

• **easy oil change**: two pipes on the internal wall of the noise enclosure, accessible through the front panel, allow both the oil drain and the subsequent top up;

• **automatic belt tensioning**: an oscillating suspension system of the motor maintains the correct belt tension at all times, thereby reducing the load on the bearings;

• **simple belt replacement**: this is carried out from the front without using any additional equipment thanks to the automatic tensioning device.
ROBOX evolution offers cutting edge technology as for silent operation of low pressure compression unit. The emitted sound level is in fact 7 dB(A) lower than the previous series, in all operating conditions, a result obtained thanks to a combination of innovative components:

- **Robuschi RBS blower**: (equipped with a special device) to eliminate the flow pulsation induced by the compression;
- **SPF inlet silencer**: designed with a patented interference device to reduce the sound waves generated at the inlet and adjustable according to the blower speed;
- **discharge silencer**: consisting of a resonance chamber and absence of internal sound absorbing materials;
- **noise enclosure**: optimisation of the intake air conveyance and of the ventilation, thereby reducing the noise pollution.

ROBOX evolution is ready-to-fit the exclusive SENTINEL electronic monitoring system that safeguards both the blower system and your investment.

**SENTINEL**:
- **prevents all failures**: in the event of an operational fault, a pre-alarm warning is activated and if reset of the normal values does not occur, the blower system stops and sends a remote alert signal;
- **signals the maintenance operations**: through the continual control of the oil level and the wear of the belts;
- **reduces down time to a minimum**: allows to immediately identify and eliminate the cause of each problem controlling the following 11 operating parameters:
  - Blower rotation direction;
  - Blower speed;
  - Inlet pressure;
  - Discharge pressure;
  - Inlet temperature;
  - Discharge temperature;
  - Oil temperature in oil sump drive side;
  - Oil temperature in oil sump gear side;
  - Internal noise enclosure temperature;
  - Oil level in oil sump drive side;
  - Oil level in oil sump gear side;
**VALVES**

<table>
<thead>
<tr>
<th>R V P - R V V (standard)</th>
<th>V S M (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RVP: Direct relief valve for pressure operation.</td>
<td>This valve allows operating the system with a low absorbed power when the blower is started with a static back pressure (e.g. in waste water treatment plants). The starting time is adjusted by means of a special screw. The VSM valve is also equipped with a special pilot valve, PSM, dial on the lid, which also works as a relief valve in pressure with a maximum over pressure 5% lower than the setting pressure.</td>
</tr>
<tr>
<td>RVV: Direct relief valve for vacuum operation.</td>
<td></td>
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</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>S D L - S C E</th>
<th>VACUUM SILENCER KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorptive silencers are available for the ROBOX evolution unit to further reduce the generated noise level.</td>
<td>Available for ROBOX evolution units in vacuum operations: ES../V and ES../DV. Consisting of SDL absorptive silencers and SPS exhaust silencers. This reduces the sound pressure level generated by the exhaust outlet up to 25 dB(A).</td>
</tr>
</tbody>
</table>
These are compression units for low pressure gas conveying, based on the RBS series 3 lobe positive displacement rotary blower, run by an electric motor through a special belt drive (GRBS) or directly coupled by means of coupling joint with or without reduction gear (CRBS). They are provided with all the necessary accessories for reliable, safe and silent operation.

The CRBS and GRBS units can be used for capacities higher than 900 m³/h / 530 cfm and for fitted powers over 250 kW / 335 hp. The heart of the unit is the innovative RBS series blower.

CRBS - GRBS in the ATEX version available on request.

- **RBS blower**
- **Noise enclosure with ventilation system** (only on request)
- **Inlet silencer**: wide band resonance chamber without sound proofing material.
- **Electric motor**: it is possible to fit medium voltage and in ex-proof motors.
- **Relief valve**
- **Base**
- **Discharge silencer**: wide band resonance chamber without sound proofing material.
- **Anti-vibration mounts**
- **Drive**:
  - Belt and pulley with tensioning device with motors up to 250 kW / 335 hp.
  - Direct with flexible coupling or reduction gear for motors up to 500 kW / 670 hp.
- **Instruments panel**: based on the customer’s specifications.
The RB-DV series consists of 3 lobe rotary blowers used as exhausting devices that makes it possible to reach a high compression ratio by means of a patented atmospheric air injection device that reduces overheating of the gas and the power absorbed by the blower. The main characteristics of these blowers are as follows:

- Maximum vacuum 93% - 28”Hg on a dead head;
- Nominal capacity from 840 to 10,500 m³/h - from 494 CFM to 6200 CFM;
- Suction pressure up to 27” / -900 mbar;
- Gases and vapors can be handled;
- No sliding parts, therefore no wear;
- Safe operation and minimum maintenance;
- No oil mist;
- Available on request, RB-DV in the ATEX version.

ROBOX evolution suction unit with RB-DV air injection vacuum blower. The unit maintains all the innovative characteristics of ROBOX evolution: silent, compact, easy maintenance.

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.

For more detailed information, consult the ROBUSCHI RB-DV TRB-DV catalog.
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).

The main characteristics of these blowers are as follows:

- **Suction pressure from 0.001 to 20 mbar absolute;**
- **Suction capacity from 300 to 9,400 m³/h - 175 to 5,500 cfm;**
- Gases and vapours can be handled;
- No sliding parts, therefore no wear;
- Safe operation and minimum maintenance;
- **RBS/AV in the ATEX version available on request.**

The RBS/AV blowers must be used in series with a primary vacuum system (VP) and for pressures lower than 50 mbar absolute.

Robuschi can supply primary vacuum systems consisting of liquid vacuum pumps with deliveries up to 4,200 m³/h - 2,500 cfm.

For more detailed information, consult the ROBUSCHI RBS/AV catalogue.
Applications

Processes

- Water treatment
- Pneumatic transport of bulk material
- Vacuum - evaporation systems
- Combustion air

Sectors

- Food industry
- Shipbuilding
- Paper industry
- Cement works
- Thermoelectric power stations
- Chemical-petrochemical
- Tanning industry
- Waste water treatment
- Detergents
- Desalination
- Pharmaceutical
- Wood
- Mining
- Maritime
- Hospitals
- Plastics
- Industrial cleaning
- Textiles
- Glass industry

- Sewage purification
  ROBOX evolution blower unit

- Industrial: Pneumatic transport of wood chippings
  ROBOX evolution blower unit

- Mobile units for the suction of dusts and/or liquids.
  Vacuum blower unit: TRB-DV

- Paper industry: Centralised vacuum systems
  ROBOX evolution pressurised blower unit in pressure (P) / air injection vacuum (DV)

- Food industry: systems for evaporation - drying processes
  High vacuum blower (RBS/AV) used as a booster in primary vacuum systems

- Engineering: treatment of oil emulsions and cleaning liquids by means of thermocompression concentration system.
  Lobe blowers (RBS)
TECHNICAL DATA

Pressure - vacuum blowers

**RBS**
Pressure/vacuum lobe blowers
Capacity up to 25,000 m³/h - 14,700 cfm.
From page 14

**ROBOX evolution**
Pressure/vacuum blower units
Capacity up to 10,500 m³/h - 6,200 cfm.
From page 16

**CRBS - GRBS**
Pressure/vacuum table top blower package.
Capacity from 2,500 to 25,000 m³/h - 1,450 to 14,700 cfm.
From page 18

Air injection vacuum blowers
(medium vacuum)

**RB-DV**
Air injection vacuum blower
Capacity up to 10,000 m³/h - 5,900 cfm.
See specific catalogue

**ROBOX evolution /DV**
Vacuum blower units for stationary applications.
Capacity up to 10,500 m³/h - 6,200 cfm.
See specific catalogue

**TRB-DV**
Vacuum blower units for mobile applications.
Capacity from 550 to 1,000 m³/h - 300 to 1,600 cfm.
See specific catalogue

High vacuum blowers

**RBS/AV**
High vacuum blowers
Capacity up to 9,400 m³/h - 5,500 cfm.
See specific catalogue
Robuschi have created a specific selection program to determine the operating parameters of the lobe blowers when environmental conditions are different from the reference conditions, in particular, when the installation site characteristics change (altitude, temperature, humidity) or when the conveyed gas is different from atmospheric air. The selection program provides a detailed Data Sheet of the machine, including selection of the electric motor, drive components (joints or belts and pulleys) and can which can also be completed with the starting curve showing the torque at blower shaft during starting.

The program is available through the Robuschi sales network and in the download area of the Internet site www.robuschi.com.
RBS

**Blower sizes:**
from 15 to 225

**Operations:**
- R = cooled
- RN = Nickel and phosphor alloy coating
- RC = synthetic resin based coating
- TMS = single mechanical seal
- TL = lip seal
- TMD = double mechanical seal
- PR = gland seal

**Versions:**
- F = flanged blower
- H = horizontal flow
- V = vertical flow
- SP = blower without feet
- FI = reverse flow
- SD = right-hand shaft
- SS = upper shaft

**Certifications:**
- ATEX Cat. II - III on request...

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**Versions**

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>RBS / V</td>
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</tr>
<tr>
<td>RBS / V-FI</td>
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<tr>
<td>RBS / V-SD</td>
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<tr>
<td>RBS / V-FI-SD</td>
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<td>RBS / H-FI</td>
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</tr>
<tr>
<td>RBS / H-SS</td>
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<tr>
<td>RBS / H-FI-SS</td>
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**Materials**

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<td>Rotors</td>
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<td>UNI-EN 1563 GS 400-15 • DIN 1696 0.7040 • A 536-84 GR 60-40-18</td>
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<td>UNI-EN 10083/1 C40 • DIN 17200 1.1186 • A 576-86 GR 10 40</td>
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<td>UNI-EN 1561 G250 • DIN 1691 0.6020 • A 48 GR 30</td>
<td>UNI-EN 10084 18NiCrMo 5 • DIN 17212 1.6523 • A 534 Cl 4720</td>
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</table>
**DIMENSIONS AND WEIGHTS**

**RBS 205**
- Dimensions: 7.75" x 9.75" x 8.00"
- Weight: 1.50 lb

**RBS 155**
- Dimensions: 7.75" x 9.75" x 8.50"
- Weight: 1.75 lb

**RBS 135**
- Dimensions: 8.50" x 10.50" x 9.00"
- Weight: 2.00 lb

**RBS 126**
- Dimensions: 9.00" x 11.00" x 10.00"
- Weight: 2.25 lb

**RBS 125**
- Dimensions: 9.50" x 11.50" x 11.00"
- Weight: 2.50 lb

**RBS 105**
- Dimensions: 10.00" x 12.00" x 12.00"
- Weight: 2.75 lb

**RBS 86**
- Dimensions: 11.50" x 13.50" x 14.00"
- Weight: 3.00 lb

**RBS 46**
- Dimensions: 17.50" x 20.00" x 21.00"
- Weight: 3.25 lb

**RBS 45**
- Dimensions: 18.00" x 20.50" x 22.00"
- Weight: 3.50 lb

**RBS 40**
- Dimensions: 21.50" x 24.00" x 25.00"
- Weight: 3.75 lb

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**FLANGE DRILLING**

**UNI PN10**

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**ANSI 125 FF**

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</tbody>
</table>

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**PLEASE NOTE:**
- Non-boundary dimensions in inches - Flow direction: downwards from above.

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**PN10**

- EN 1092-2

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**ANL SI 125 FF**

- Dimensions: 7.75" x 9.75" x 8.00"
Performances related to atmospheric air: absolute pressure 1,013 mbar, temperature 20º C, relative humidity 50%, specific weight 1.2 kg/m³.
### ROBOX evolution

#### DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>ROBOX evolution</th>
<th>DIMENSIONS (mm)</th>
<th>WEIGHT (lb)*</th>
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<tbody>
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<td>ES 86</td>
<td>6.00“</td>
</tr>
<tr>
<td></td>
<td>ES 95</td>
<td>6.00“</td>
</tr>
<tr>
<td></td>
<td>ES 105</td>
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<tr>
<td></td>
<td>ES 106</td>
<td>7.75“</td>
</tr>
<tr>
<td></td>
<td>ES 115</td>
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<tr>
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<td>9.75“</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>ES 135</td>
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<tr>
<td></td>
<td>ES 145</td>
<td>11.75“</td>
</tr>
<tr>
<td></td>
<td>ES 155</td>
<td>11.75“</td>
</tr>
<tr>
<td></td>
<td>ES 165</td>
<td>11.75“</td>
</tr>
</tbody>
</table>

*without motor

Silencer panels (S) assembled after transport

Silencer panels (S) positioned inside for transport
### Drive:
- **C** = with direct coupling
- **G** = with V-belt transmission

### Blower sizes:
- from 165 to 225

### Certifications:
- ATEX Cat II - III on request...

### Table: Performances

<table>
<thead>
<tr>
<th>Blower size</th>
<th>Pressure</th>
<th>Capacity</th>
<th>Motor</th>
<th>Noise</th>
<th>Pressure</th>
<th>Capacity</th>
<th>Motor</th>
<th>Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mbar (g)</td>
<td>PSI</td>
<td>m³/h</td>
<td>CFM</td>
<td>kW</td>
<td>BHP</td>
<td>dB(A)</td>
<td></td>
</tr>
<tr>
<td>165</td>
<td>1000</td>
<td>15</td>
<td>10420</td>
<td>6120</td>
<td>400</td>
<td>550</td>
<td>84</td>
<td></td>
</tr>
<tr>
<td>175</td>
<td>1000</td>
<td>15</td>
<td>14420</td>
<td>8450</td>
<td>550</td>
<td>750</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>205</td>
<td>1000</td>
<td>15</td>
<td>16430</td>
<td>9650</td>
<td>600</td>
<td>800</td>
<td>84</td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>700</td>
<td>10</td>
<td>24870</td>
<td>14650</td>
<td>650</td>
<td>900</td>
<td>84</td>
<td>450</td>
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### Table: Dimensions and Weights

<table>
<thead>
<tr>
<th>Type</th>
<th>M</th>
<th>With reduction gear</th>
<th>B</th>
<th>Without reduction gear</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>F1</th>
<th>H</th>
<th>H1</th>
<th>I</th>
<th>K</th>
<th>K1</th>
<th>With reduction gear</th>
<th>L</th>
<th>Without reduction gear</th>
<th>Q</th>
<th>S</th>
<th>Weight(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>165/V</td>
<td>11.75°</td>
<td>308.75</td>
<td>169.25°</td>
<td>12.00°</td>
<td>19.25°</td>
<td>26.50°</td>
<td>69.00°</td>
<td>96.75°</td>
<td>84.00°</td>
<td>83.50°</td>
<td>120.00°</td>
<td>164.25°</td>
<td>125.00°</td>
<td>52.00°</td>
<td>67.50°</td>
<td>6945</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>175/V</td>
<td>13.75°</td>
<td>324.50</td>
<td>155.00°</td>
<td>94.00°</td>
<td>16.75°</td>
<td>28.75°</td>
<td>84.00°</td>
<td>115.50°</td>
<td>140.00°</td>
<td>114.00°</td>
<td>151.75°</td>
<td>195.00°</td>
<td>116.00°</td>
<td>55.00°</td>
<td>73.50°</td>
<td>8818</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>205/V</td>
<td>15.75°</td>
<td>444.00</td>
<td>162.50°</td>
<td>126.00°</td>
<td>19.25°</td>
<td>23.50°</td>
<td>31.25°</td>
<td>84.00°</td>
<td>122.50°</td>
<td>94.50°</td>
<td>154.25°</td>
<td>197.00°</td>
<td>157.25°</td>
<td>52.00°</td>
<td>77.00°</td>
<td>12.566</td>
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<tr>
<td>225/V</td>
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<td>471.75</td>
<td>233.25°</td>
<td>133.75°</td>
<td>31.00°</td>
<td>23.50°</td>
<td>38.25°</td>
<td>116.25°</td>
<td>142.75°</td>
<td>31.50°</td>
<td>112.00°</td>
<td>169.00°</td>
<td>224.00°</td>
<td>55.00°</td>
<td>80.50°</td>
<td>14.991</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Without motor
Robuschi have a capillary distribution network: a network of agents and two branches in Milan and Padua able to cover the whole of Italy; 7 Robuschi branches in Germany, Denmark, France, Benelux, China, Brasil and USA and over 50 distributors / agents able to cover 70 different countries. Thanks to their flexibility and promptness, Robuschi can offer specialised advice, pre - after sales assistance and rapid operations to satisfy the customer’s every need.