FROM YOUR IDEA TO THE FINAL PART

Over 5'000 achieved projects.

Worldwide technical support.

70 years dedicated to vacuum assisted casting.
ADDED VALUE

- Increased productivity
- Reduced reject rates
- Proven quality and reliability
- Easy integration and operation

YOUR PARTS IMPROVED
Significantly less porosity
Increased density
Refined surface quality
Enabling heat treatment & welding
1. Half cylinder block (2-cylinder motorcycle) / BMW AG
2. Hydraulic control unit for gearbox / METALLWERK FRIEDRICH GEITSCHI GmbH für MERCEDES-BENZ AG
3. Cylinder block (4-cylinder motor block) / BMW AG
4. Shock tower / ALBERT MANUTURIN METALLGIESSEREI GmbH & Co.KG for BMW AG
5. Door handle locking armature truck / SCHLIEPER Ges.m.b.H for VOLVO TRUCK CORPORATION
6. Car body element / DGS DRUCKGIESSSYSTEME AG für AUDI AG
Vacuum application studies are the matrix for a good technology integration into your process.

With over 1000 customers in 55 countries, Fondarex is the design specialist in gating systems and vacuum channels.

OUR EXPERTISE
3D studies and simulations for ongoing and new projects.
HOW TO DEFINE YOUR VACUUM STRATEGY

MOBILE
- Transportable from DCM to DCM
- Compact unit, convenient to use and easy to maintain
- Ideal for DCM up to 3’000t

CELL
- Fixed solution, optimized cell integration
- Separated tank/pump, electro/pneumatic cabinet and control panel, for an accurate operating configuration
- Recommended for high-end projects on DCMs up to 5’500t

CENTRAL
- Fixed solution, with a centralized tank and pump stand for all DCMs
- Separated electro/pneumatic cabinet and control panel close to the DCM
- Advised for a defined die cast part range produced on multiple DCMs of similar sizes
FONDAREX
HIGHVAC

PROGRESS / PREMIUM / ULTIMATE

Proven reliability, efficiency and flexibility make the Highvac series the benchmark in vacuum systems worldwide.

Foundries trust our technology and know-how, inspiring us to always go one step further.
FONDAREX MODULAR

Smarter than ever. We developed a new concept in vacuum die casting.

The Fondarex Modular provides intelligent and precise vacuum process control.

We call it Modular, because of its unique ability to cater for your specific requirements.

Hyper user friendly, thanks to a new intuitive interface and integrated communication system.

HIGHLIGHTS

Modular / Mobile
Upgradable / Updatable
Compatible with any DCM
Integrated Communication
Industry 4.0
FONDAREX
ONE

The best way to start your journey in the world of vacuum die casting.

Do it yourself from installation to production.

Simple to use and maintain.

Servicing DCM up to 1'000t.
<table>
<thead>
<tr>
<th>MOBILE</th>
<th>CELL</th>
<th>CENTRAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANK (l)</td>
<td>200, 500, 800</td>
<td>1'000, 2'000</td>
</tr>
<tr>
<td>PUMP (m³/h)</td>
<td>25, 40, 60, 100</td>
<td>100, 160, 200</td>
</tr>
<tr>
<td>CHANNLES</td>
<td>2, 2, 2, 2, 2, 4, 4</td>
<td></td>
</tr>
<tr>
<td>EVACUATION SECTION [mm²]</td>
<td>2 x 500, 2 x 500, 2 x 800, 2 x 800, 4 x 800</td>
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<tr>
<td>VACUUM PROCESS CONTROL</td>
<td>Standard functions, Standard functions, Standard functions, Higher grade functions, Higher grade functions, Higher grade functions, Higher grade functions, Higher grade functions</td>
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</tr>
<tr>
<td>VACUUM REGULATION</td>
<td>x, x, x, v, v, v, v, v</td>
<td></td>
</tr>
<tr>
<td>AIR VOLUME MEASURE</td>
<td>x, x, x, v, v, x</td>
<td></td>
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<tr>
<td>LEAK TEST</td>
<td>x, x, x, v, v, v, v</td>
<td></td>
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<tr>
<td>READY FOR PROFINET/PROFIBUS</td>
<td>x, x, x, v, v, v, v</td>
<td></td>
</tr>
<tr>
<td>DATA MANAGEMENT</td>
<td>Internal log data, Internal log data, Internal log data, Data communication, Data communication, Data communication, Data communication, Data communication</td>
<td></td>
</tr>
<tr>
<td>HARDWARE UPGRADABLE</td>
<td>x, x, x, x, x, x, x, x</td>
<td></td>
</tr>
<tr>
<td>FOOTPRINT L x D (m)</td>
<td>0.8 x 0.9, 0.8 x 1.3, 0.8 x 1.3, 0.8 x 0.3, 0.8 x 0.9, 0.8 x 1.3, 0.8 x 1.3, 2.5 x 0.9, 3.0 x 1.1, 3.1 x 1.2, 0.8 x 0.3, 2.5 x 0.9, 3.0 x 1.1, 3.1 x 1.2, 1.5 x 0.4, 2.5 x 0.9, 3.0 x 1.1, 3.1 x 1.2, 1.5 x 0.4, 0.8 x 1.3, 0.8 x 1.4, 0.8 x 1.5</td>
<td></td>
</tr>
<tr>
<td>DCM (l)</td>
<td>Up to 600, Up to 1'400, Up to 1'400, Up to 2'000, Up to 2'000, Up to 2'000, Up to 2'000, Up to 2'000, Up to 2'000, Up to 2'000, Up to 1'000</td>
<td></td>
</tr>
<tr>
<td>TYPE OF DIE CAST PROJECTS</td>
<td>Standard parts, Standard parts, Standard parts, High-end parts, High-end parts, High-end parts, Structural parts, Structural parts, All parts, Standard parts</td>
<td></td>
</tr>
</tbody>
</table>
SUPERVAC MINI  |  SUPERVAC MEDIO  |  SUPERVAC MAXI  |  SUPERVAC MACRO
---|---|---|---
**Die casting machine tonnage [t]**  |  < 400 approx.  |  200 – 1200  |  800 – 2800  |  1600 – 4500
Shot weight Al [kg]  |  0,3 – 1,5  |  1 – 12  |  6 – 25  |  12 – 45
Shot weight Mg [kg]  |  0,07 – 1  |  0,7 – 8  |  4 – 16  |  8 – 30
Shot weight Zn [kg]  |  0,2 – 4  |  3 – 20  |  ×  |  ×
**Dimensions**  |  |  |  |  
Width [mm]  |  63  |  63  |  100  |  100  |  140  |  140  |  150  |  150
Depth [mm]  |  63,4  |  63,5  |  88,9  |  88,9  |  108  |  108  |  139,7  |  139,7
Height [mm]  |  76  |  75  |  127  |  126  |  152  |  151  |  171  |  170

7 decades of continuous engineering have made our Supervac valves the industry standard.

Experience our mechanical system to achieve superior quality in your end-product.
**FONDAREX**

**CHILL-BLOCK**

The aerodynamic profile of our Chill-Block SCS ensures fast and compact alloy solidification.

No cooling system required.

Simplicity as ultimate sophistication.

<table>
<thead>
<tr>
<th></th>
<th>CHILL-BLOCK SCCZ 12</th>
<th>CHILL-BLOCK SCS 30</th>
<th>CHILL-BLOCK SCS 60</th>
<th>CHILL-BLOCK SCS 100</th>
<th>CHILL-BLOCK SCS 140</th>
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</thead>
<tbody>
<tr>
<td>Die casting machine tonnage [t]</td>
<td>&lt; 200 approx.</td>
<td>&lt; 400 approx.</td>
<td>200 – 1200</td>
<td>800 – 2800</td>
<td>1600 – 4500</td>
</tr>
<tr>
<td>Shot weight Al [kg]</td>
<td>×</td>
<td>0.1 – 1.5</td>
<td>0.7 – 10</td>
<td>5 – 22</td>
<td>10 – 40</td>
</tr>
<tr>
<td>Shot weight Mg [kg]</td>
<td>0.05 – 0.8</td>
<td>0.07 – 1</td>
<td>0.5 – 6</td>
<td>3 – 12</td>
<td>6 – 26</td>
</tr>
<tr>
<td>Shot weight Zn [kg]</td>
<td>0.1 – 3</td>
<td>0.2 – 4</td>
<td>1 – 20</td>
<td>×</td>
<td>×</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Fixed part</th>
<th>Mobile part</th>
<th>Fixed part</th>
<th>Mobile part</th>
<th>Fixed part</th>
<th>Mobile part</th>
<th>Fixed part</th>
<th>Mobile part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width [mm]</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>100</td>
<td>100</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>Depth [mm]</td>
<td>63.4</td>
<td>63.5</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Height [mm]</td>
<td>100</td>
<td>99</td>
<td>150</td>
<td>149</td>
<td>250</td>
<td>249</td>
<td>300</td>
<td>299</td>
</tr>
</tbody>
</table>
Our experienced engineers provide support at your production sites.

From the mold conception, installation, training to the maintenance, your continued satisfaction is our main goal.
HISTORY

Fondarex was initially established as a die-casting foundry in Montreux in 1946.

Six years later, we produced the first vacuum system and the era of vacuum die casting began.

Over the years, our developments put a mark on the vacuum die casting industry.
The pioneer and worldwide leader in vacuum technology for high-pressure die casting.

Our Swiss manufacture works with 95 local suppliers and assembles each unit by hand, according to your requirements.

Swiss Made is our identity.