low pressure and gravity die casting machines and tooling
More than 900 machines sold around the world.
More than **900** machines sold around the world

![World map highlighting locations](image)

- **Italy**
- Germany
- France
- Austria
- Thailand
- Indonesia
- China
- Taiwan
- Mexico
- USA
- Norway
- Iran
- Venezuela
- South Africa
- Brazil
- India
- Czech Republic
- Hungary
- Turkey
- Australia
- South Korea
- Spain
- Slovenia
- Poland
- Croatia
- Russia
- Ethiopia
- Canada
- Argentina
- United Kingdom
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Low pressure die casting machines

I° SERIES

BP3
the origins

BPD
OEM production

BPT
innovation
Low pressure die casting machines

II° SERIES

BPB
the evolution

BPB double
double print

BPC
tradition

① motorbike wheels twin cavity
② reverse furnace motion
Low pressure die casting machines

III° SERIES

- **BPS**
  Simply practical

- **BPS-8**
  Practical and effective

- **BPS-C**
  Practical with crucible

③ automated wheel casting cell
④ furnace with tilting feature and automatic door open/close
**BPSC 800S**
crucible shuttle solution

1. Rotating degassing system
2. Shuttle fully automatic crucible furnace exchange
3. Crucible furnace with lid connected to the lower press plate
Low pressure die casting machines

V° series

BPS-8/TC twin chamber furnace solution

BPB 1500 TC twin chamber furnace solution

BPS 1500 TC twin chamber furnace solution

1. Manual Plug for furnace emptying
2. Automatic door for molten bath cleaning
3. Immerged heating elements
Casting facilities realized by LPM
Aluminium and magnesium gravity sand casting

1. Crucible for magnesium
2. Electric magnesium melting/holding furnace
3. Movable heated ladle for magnesium
Aluminium and magnesium low pressure sand casting

4 aluminium and magnesium low pressure sand casting machine
5 low pressure furnace for magnesium
6 sand moulds shuttle
7 low pressure riser tube
GFS gravity die casting machines

① GCA - Flexible mobile casting station for cylinder heads
② GMS/Z - Gravity diecasting machine
③ MSG Decoring machine
④ Salt core automatic insertion
Multiple cavity die for pistons

Ergo 4 - tilting gravity die casting machine
GFS gravity die casting machines

1 Piston casting cell
2 Ergo 4 - tilting bench
3 Ergo 2 - tilting bench
④ FCM - flexible casting mobile
③ MUB 90 - tilting bench
1 Low pressure die casting machine for aluminium engine blocks

2 Low pressure die casting machine for aluminium “fly housing”

3 Low pressure robotized casting cell for double casting
Low pressure die casting multi stalk technology

1. Double casting machine with multi stalk technology
2. Typical casting cell with manual sand core loading
3. Four-cavity mold for turbocharger bodies
4. Castings after extraction
Ancillary equipment
1 hydraulic unit with accumulator
2 digital and proportional cooling rack
3 leak test machine (air in water)
4 Hydraulic Unit with inverter for energy saving
5 shuttle electric heated ladle
6 upper hydraulic unit
7 automatic funnel
8 automatic marker
9 hydraulic unit for multiple casting machines
10 automatic screen loader
11 linear catching retriever
Optional feature

1. quick riser tube changeover
2. water quench system
3. protection system for heating elements
4. automatic furnace door opening
5. press upper tilting plate
① furnace automatic filling door
② die loading device (upper solution)
③ die loading device (lower solution)
④ press upper tilting plate
De-sprueing machine

1. spare punching head
2. die/punch tooling
3. punching cell
The ultimate and most effective solution for wheels de-sprueing
Drilling machines

① drilling machine with turntable
② typical aluminium components after processing
3 classifying conveyor
4 drilling machines with automatic door for robotized workpiece load/unload
5 riser cut-off and fettling system
6 fettling tooling
Wheel profile de-flashing machine

1. DP4 de-flashing machine with cabinet
2. De-flashing tool for rear wheel profile
3. De-flashing tool for "rear and front" wheel profile
Reference
Molds and core boxes

1. Typical 4-cavity low pressure mold for automotive suspension parts
2. Machining of cylinder head mold
Tool shop

State of the art machining equipment
Molds and core boxes

1. Machining of “control arm” mold
2. Machining of “cradle” mold

UNIMOLDS is equipped with:
2D and 3D CAD Software
- Auto CAD
- Pro E
- Catia V5
- Siemens NX 8.5
CAM Software:
- Work NC;
- CG Tech Vericut
1. Eight cavities core box
2. "Procast" casting simulation
3. "Suspension node" die with tilting side cores
4. "Engine Block" die with tilting side cores
LPM casting facility
LPDC machine
X-RAY machine
spectrometer
gas heated ladle for aluminium loading
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