low pressure and gravity die casting machines and tooling
More than 150,000 machines sold around the world.
More than 1500 machines sold around the world
Aluminium/Magnesium CASTING MACHINES

- Low Pressure die casting
- Foundry ancillary equipment
  - De-burring machines
  - De-spruing machines

MOLDS / CORE BOXES MANUFACTURING

- CASTING TRIALS
  - Low Pressure die casting
  - Gravity Die Casting

- Design e Casting simulation
- Manufacturing
- Casting trials - hot tool setting
- X-Ray
- Spectrographic analysis
- Dimensional inspection

- Design
- Manufacturing
- Inspection
- Service

- Melting/holding gas furnaces
- Gas melting furnaces
- Degassing units
- Transfer ladles
- Paint mixer

- Design
- Manufacturing
- Inspection
- Service

LOW PRESSURE DIE CASTING MACHINES

- Design
- Manufacturing
- Inspection
- Service

Fully automated GRAVITY CASTING CELLS

- Gravity die casting equipments
- Linear and 6 axis pouring robots
- Core and liner setting robot
- Sawing and degating cells
- Decoring equipment

- Design
- Manufacturing
- Inspection
- Service

AUTOMATIC/ROBOTIZED - CASTING PLANTS

- Casting plants
- Casting and semifinishing plants
Low pressure die casting machines

1° 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

motorbike wheels
twin cavity

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
Low pressure die casting machines

IV° SERIES

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

BP3 1500 TC  
twin chamber furnace solution

BP3-S 1500 TC  
twin chamber furnace solution

1. Twin chamber  
Casting machine positioned in Pit.

2. Immerged heating elements
Low pressure die casting machines

VI° series

BPB-LP

BPC-LP
Low pressure die casting machines

Mod. BP 800/1000 G

1. Pneumatic block with digital valves
2. Holding tilting furnace
3. Side cores hydraulic movement
4. Cooling cabinet
Aluminium and magnesium low pressure sand casting

1. aluminium and magnesium low pressure sand casting machine
2. movable heated ladle for magnesium
3. sand molds shuttle
4. low pressure riser tube
Optional feature

- quick riser tube changeover
- water quench system
- protection system for heating elements
- automatic furnace door opening
- press upper tilting plate
1 operator push-button with HMI
2 die loading device (upper solution)
3 die loading device (lower solution)
4 press upper tilting plate
5 standard holding furnace with immersed heating elements
Ancillary equipment
1 leak test machine (air in water)
2 die loading operation
3 digital and proportional cooling rack
4 Hydraulic Unit with inverter for energy saving
5 die changing device
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
Low pressure die casting multi stalk tecnology

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
Casting facilities realized by LPM

LP casting line for aluminium wheels at Lioho Liufeng (Shandong Plant)

LP casting line for aluminium wheels at Superior Ind. Intl. (Chihuahua - Mexico Plant)
De-sprueing machine

1. spare punching head
2. die/punch tooling
3. punching cell
The ultimate and most effective solution for wheels desprueing
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

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

Machining of “control arm” mold

Machining of “cradle” mold
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
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
FCM - flexible casting mobile
MUB 90 - tilting bench
Coram equipments for aluminium foundry

Melting-holding furnaces

1. Melting-holding furnaces
   - Basin dual chamber
     - Gas
     - High efficiency (tower): up to 100 kg/hr

2. Basin single chamber
   - Gas
   - Melting capacity: up to 300 kg/hr

3. Special machines on customer's request

4. Ladles
   - Standard and heated, electrical and gas, for forklift - crane, casting on fixed point. Automatic station for ladle heating

5. Basin
   - Electrical with immersed heaters
   - Capacity: up to 5000 kg

6. Crucible
   - Electrical or gas
   - Capacity: up to 3000 kg

7. Degassing plants
   - Standard and special for all applications (in ladle, in-line, in furnace treatments)

8. In-line filters
   - With electrical or gas heating, from 17 to 23 inch

Movable tilting ladle

Heated Ladle
Plants for metallurgical treatment

Holding furnaces
1. LPDC machine
2. X-RAY machine
3. gas heated ladle for aluminium loading
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