





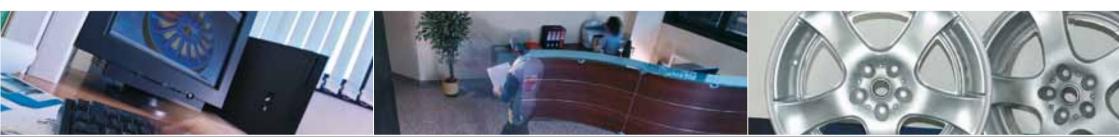




More than 900 machines sold around the world

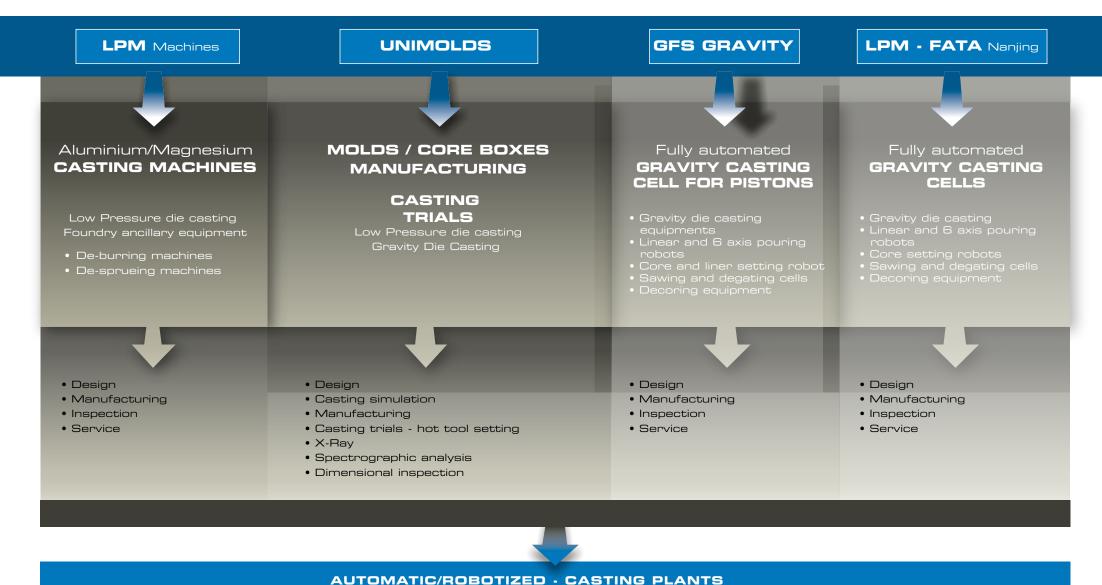


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Group activities and manufacturing



- Casting plants
- Casting and semifinishing plants



I° SERIES















II° SERIES

BPB the evolution





BPB double double print





- 1) motorbike wheels twin cavity
- 2 reverse furnace motion



III° SERIES











- (3) automated wheel casting cell
- 4 furnace with tilting feature and automatic door open/close



IV° SERIES



BPSC 800S
crucible shuttle solution







- Rotating degassing system
- 2 Shuttle fully automatic crucible furnace exchange
- 3 Crucible furnace with lid connected to the lower press plate



V° SERIES







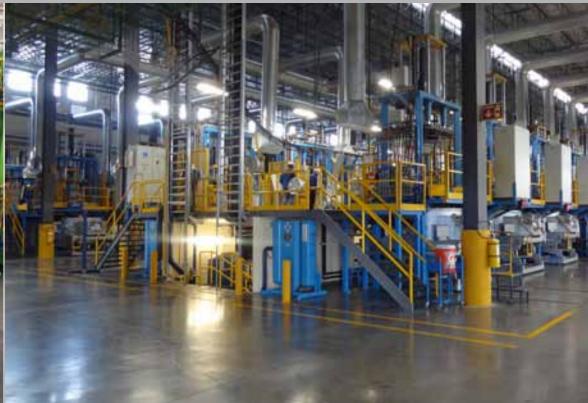


- Manual Plug for furnace emptying
- 2 Automatic door for molten bath cleaning
- 3 Immerged heating elements



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 molds 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





















- 5 Multiple cavity die for pistons
- 6 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
- (5) MUB 90 tilting bench



LPM casting solutions



- 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 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







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



1

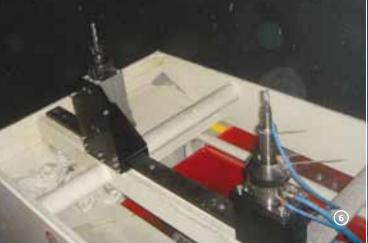














- 3 classifying conveyor
- 4 drilling machines with automatic door for robotized workpiece load/unload
- (5) riser cut-off and fettling system
- 6 fettling tooling



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

































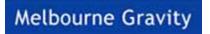










































Molds and core boxes



- 2
- 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



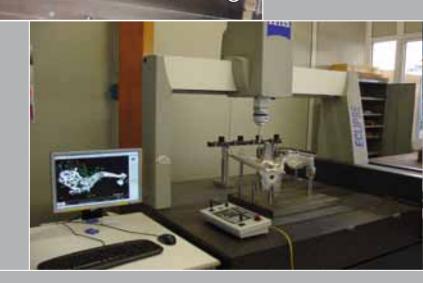


UNIMOLDS is equipped with: 2D and 3D CAD Software

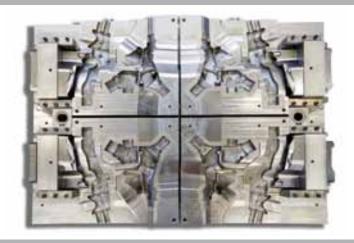
- Auto CAD
- Pro E
- Catia V5
- Siemens NX 8.5

CAM Software;

- Work NC;
- CG Tech Vericut





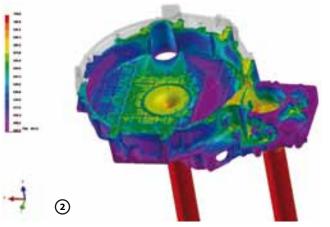


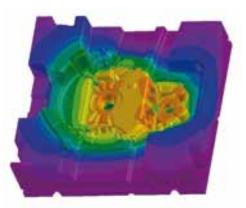


- 1 Eight cavities core box
- (2) "Procast" casting simulation
- (3) "Suspension node" die with tilting side cores
- 4 "Engine Block" die with tilting side cores











LPM casting facility





















- 1 LPDC machine
- 2 X-RAY machine
- 3 spectrometer
- (4) gas heated ladle for aluminium loading













LPM _{SPA} Head Quarter

via Egidio Berto, 24 35024 Bovolenta (PD) - Italy tel. +39 049 9545262 fax +39 049 9545263 e-mail info@lpm-it.com web www.lpm-it.com

UNIMOLDS SRL

via Egidio Berto, 24, int. 2 35024 Bovolenta (PD) - Italy tel. +39 049 9545258 fax +39 049 9549441 e-mail info@unimolds-it.com e-mail gianni@unimolds-it.com

LPM

North America Inc.

27281 Las Ramblas - Suite 200 Mission Viejo, CA - 92691 U.S.A tel. +1 734 5648230 e-mail e.borgogna@lpm-it.com

GFSGravity S.r.l.

Via Francesco Parigi, 28 10034 Chivasso (TO) - Italy mobile +39 011 919 6234/6235 e-mail info@gfsgravity.com

LPMFata Nanjing

No.1, Zhangcun Industrial Garden Shiyang Road, Dongshan Town, Jiangning District, 211100 Nanjing, China mobile +86 13851443305 (Mrs. Jennifer YE) e-mail p_lu@njfata.com e-mail x_r_ye@njfata.com web www.fatananjing.com