

Lightme Pilot Lines



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Low Pressure Die Casting Pilot Line (LPDC)



The objects in this LPDC PL are produced with the utilization of dies.



One half of the die is attached to a fixed machine plate and the other to a movable one on a die-casting machine that is vertically aligned.

The furnace for molten metal is located beneath the fixed plate and by applying pressure of up to max bar to the furnace pushes the molten metal up through an intake port into the die chamber. After filling the die, the pressure is maintained





as the metal cools to enable the addition of further molten metal to counter any volume deficits (shrinkage cavities) as the metal passes from its molten to solid state.

The method can produce components with complex geometries and high dimensional accuracy in slower casting cycles compared to HPDC (High Pressure Die Casting). It is fully automated and needs low complexity die technology.



The LPDC pilot line at ÖGI consists of an industrial-suited LPDC machine with an integrated casting furnace and a modern state of the art control system.



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