

# Direct Metal Laser Sintering (DMLS)

You can use direct metal laser sintering for producing metal parts, high performance tools and direct production, including spare parts.

## Metal Parts

Direct metal laser sintering (DMLS) is a technology that can make metal parts of the most complex geometries readily available, directly from 3D CAD data. Parts can be produced have excellent mechanical properties, high detail resolution and optimum surface quality. Since there is no need for tooling, set up requirements are minimal, resulting in quick turnaround times and reduced time to market.

## High Performance Tooling

DMLS enables the use of conformal cooling within tools and tooling inserts. During the process, integrated cooling and tempering channels can be built into the tool. This construction advantage improves both the productivity of the tools and the quality of the injection-moulded parts, leading to a reduction in unit costs.

## Direct Production (including spare parts)

DMLS technology is now used for direct production of parts and product in volume with competitive pricing. Independent of economies of scale, the technology is ideally suited to low volume, niche market production of parts of complex design and engineering. A variety of metal powders are available. Since there are no lengthy set up times, small series batch production using DMLS can offer significant cost and time advantages.

## Direct Metal Laser Sintering

The technology is suited to an ever growing number of industries and the challenges facing business today.

- Increasing part complexity
- Need to customize
- Multitude of varieties
- Ever shortening product life cycles
- Hard to anticipate customer demand
- Short response time required

For more information on DMLS, contact Customer Service & Technical Support.  
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