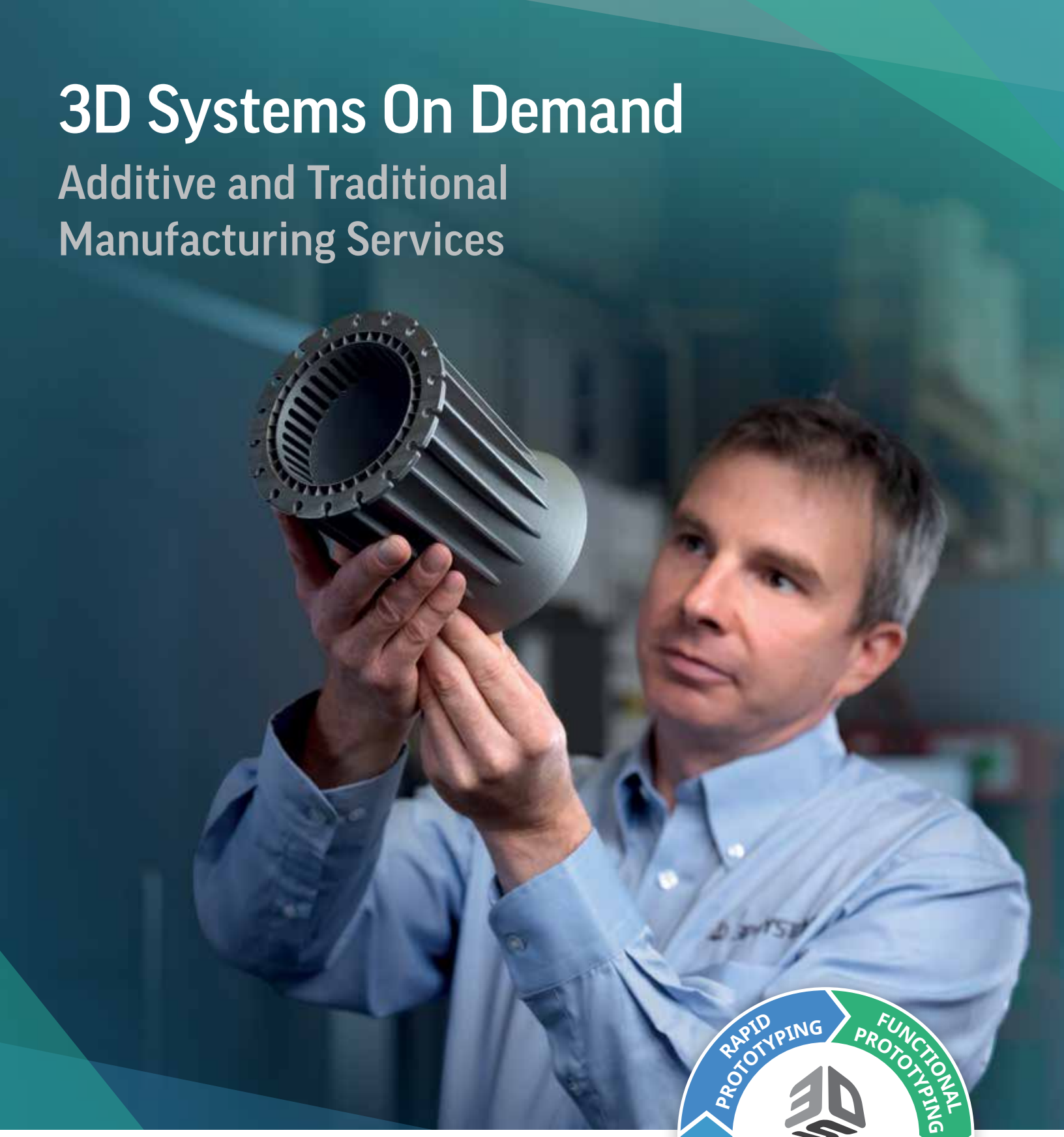
3D Systems On Demand

Additive and Traditional Manufacturing Services



3D SYSTEMS On Demand

3dsystems.com/ondemand

3D Systems On Demand Parts Services

Appearance Models

Experience and evaluate your design before entering production

Turn your CAD files into highly realistic, physical parts and assemblies, used for aesthetic review, internal evaluations, mechanical and electrical functions.

Rapid Prototyping

A design prototype in as little as 24 hours

The inventor of 3D printing offers the widest range of 3D printers, materials and expertise to customers looking to jump-start product development.

Functional Prototyping

Reliable quality and service for product development

Functional prototyping enables you to assess factors such as usability, ergonomics, manufacturability and materials testing before investing in tooling. The result: shorter development cycles, saving you time and money.

Low-volume Production

Quality and responsiveness for short-run production

Low-volume manufacturing from 3D Systems On Demand helps customers reduce tooling costs, produce customized products, and bring a product to market quicker while higher-volume production molds are being completed.

Why 3D Systems On Demand?

- Fast and easy engagement
- Consultancy from the start by experienced engineers
- Global resources, local manufacturing
- Credibility of a global market leader
- One partner for the complete value chain of prototyping: from the first models through different prototypes to pre-series or low-volume production

Your benefits

- One supplier of all relevant prototyping technologies
- Selection of the best process in each single project
- Extensive time and cost savings

Bring your designs to life with highly realistic appearance models

RAPID PROTOTYPING

Evaluate production-like parts before you commit to costly production

Local Manufacturing, Global Resources

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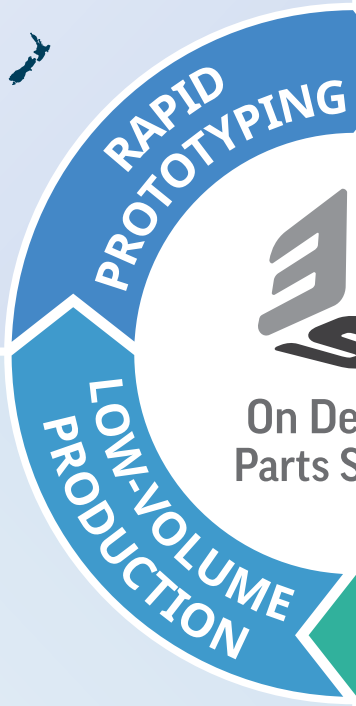
Facilities globally

Parts can be produced in
24
hours

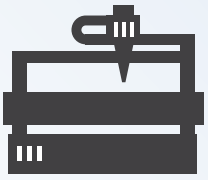
Millions parts/year



LOW-VOLUME PRODUCTION

Reduce or eliminate tooling, enable customization and speed time-to-market


3D PRINTING


CNC


INJECTION MOLDING


FIGURE 4

Fast part production from
1 to **100,000+**
with additive and subtractive manufacturing

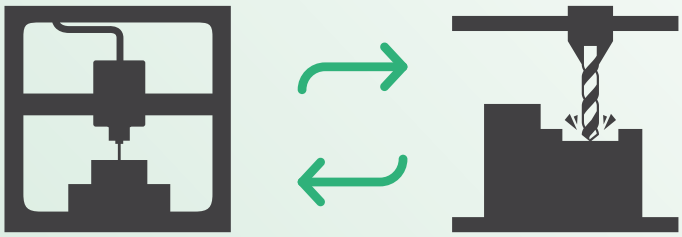
SAVE DAYS
getting your designs into production

FUNCTIONAL PROTOTYPING

Assess real-world usability, ergonomics, manufacturability and materials before production

MULTIPLE

ADDITIVE MANUFACTURING CHOICES
FOR FUNCTIONAL PROTOTYPING



ADDITIVE TRADITIONAL

Every functional prototype is created with an average of

3 different processes

30,000+

FUNCTIONAL PROTOTYPES
MANUFACTURED TO DATE

EXPERIENCED
APPLICATION ENGINEERS

with an average of

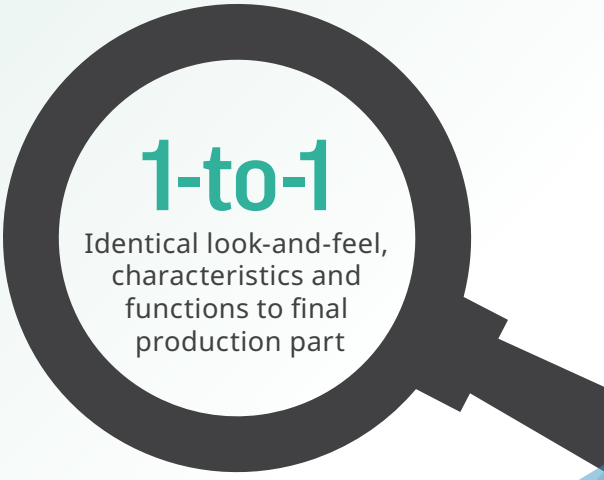
10+ years of experience

APPEARANCE MODELS

See your designs in reality before series production – with full functions and perfect, life-like looks

TO SCALE, LIFE-LIKE MODELS

- ✓ METICULOUS ENGINEERING
- ✓ PERFECT FINISHES
- ✓ INCLUDE MECHANISMS, LIGHTING AND MORE
- ✓ MECHATRONICS DESIGN AND INSTALLATION



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Technologies available for the production of Appearance Models

From Prototyping to Production

3D Systems On Demand offers the widest range of technologies, processes and materials in the industry. Enabling the best service to manufacturers on their way from the first product idea to series production.

Additive Manufacturing

Stereolithography (SLA)

Delivery: Next-day shipping available

- Highest accuracy, smoothest surface
- Parts up to 1500mm in one single piece

Direct Metal Printing (DMP)

Delivery: 1 – 3 weeks

- Small, complex shapes – no tooling needed
- Impossible geometries – now possible

Selective Laser Sintering (SLS)

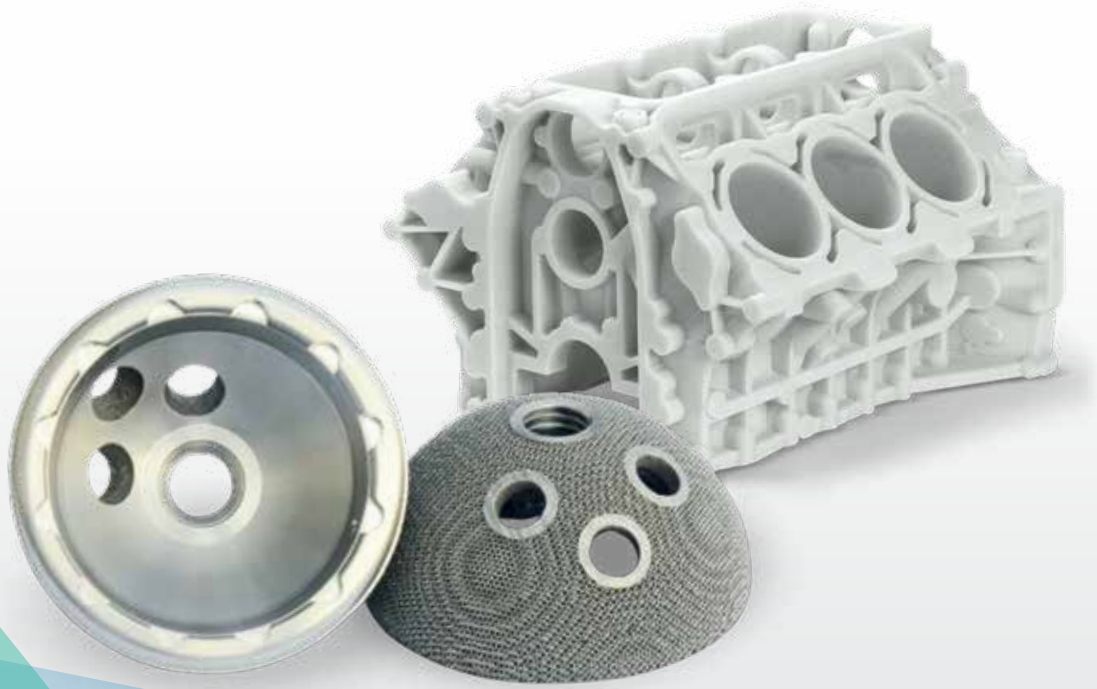
Delivery: Next-day shipping available

- Highly durable, complex geometries
- Ideal for snap fits, living hinges

Figure 4

Delivery: Next-day shipping available

- Ultra-fast production as alternative to injection molding or cast urethane processes
- High quality, smooth surface finish



Traditional Manufacturing

Vacuum Casting Parts

Turnaround: First off parts from 10 – 12 working days

- For realistic prototypes that mimic Injection Molded parts
- Efficient low-volume production without tooling

CNC-Machined Plastic and Metal Parts

Turnaround: 6 – 8 days

- For rapid prototypes or production parts
- CNC machining options for both metal and plastic parts

Low-Volume Injection Mold Tooling/Parts

Turnaround: 2 – 4 weeks

- Prototypes to production quantities
- Multi-cavity tooling, tight tolerances, over-molding, secondary post-molding operations

Sheet-Metal Parts

Turnaround: 5 – 10 days

- Prototypes to low-volume production
- Large variety of options

Metal Die Casting

- Small/medium-sized consistent parts, fine surface quality and detail
- Continuous quality control
- Accelerated prototype to production

Investment Casting – QuickCast & Wax Patterns

- For large-scale parts that cannot be tooled
- Shrink/gating information prior to tooling
- High-detail, high-resolution, real wax patterns
- Finest finishes/complexity
- Dramatically reduced time and costs

We Provide Worldwide Service

For an instant quote visit 3dsystems.com/ondemand

3D Systems On Demand manages a network of advanced manufacturing facilities around the world. Our team of application engineers provide expertize and localized support. Contact one of our offices to talk through your next project.

Contact our team at **3dsystems.com/on-demand-manufacturing/contact**

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