The interconnected manufacturing solution.

We offer you countless complementary programs which optimize all processes, offer multiple functions and thus substantially simplify your internal processes. All products can naturally be integrated into existing process chains and offer, in combination, the total solution for additive production.

**Additive.Designer®**
Additive.Designer® is a diverse and scalable software solution for easy data preparation of complex components in additive production.

**Additive.Quality**
The new product line from SLM Solutions for process monitoring and quality assurance in the additive production process.

**Additive.Plant**
The flexible solution for automation. From your design idea to serial production to the finished product.

**Additive.Palletizing**
More information soon available...
**SOFTWARE**
The smart pre-processor

Additive.Palletizing is our solution for the substantially-easier and more precise post-processing of additively-produced components. We offer both the revolutionary hardware as well as the customized software. Through this combination, you obtain not only time, but also increase the quality of your product.

**HARDWARE**
The smart substrate panel design

The segmentation of the substrate plate of the Additive.Palletizing System (A.PS) enables the combination of various components on various pallets into one build job. Thanks to the patented zero point clamping device, the individual components can be subjected to further processing easily and individually on various tooling machines.

**HIGH FLEXIBILITY**
- Multiple components from various customers can be realized within one build job on individual A.PS pallets
- Automated positioning of the A.PS pallets, and thus of the components, via patented ThermoLock technology
- The segmented substrate plate design permits the parallel processing of the additively-produced components

**EASY POST-PROCESSING**
- Optimal 5-way post-processing, directly on the respective A.PS pallet
- The integrated zero point clamping system enables the direct and individual further processing on tooling and measuring machines
- Integrated gripper grooves simplify the manual handling and enable automated handling of the A.PS pallet

**PREPARATION FOR POST-PROCESSING**
- The substrate plate segmentation can be individually adapted to the respective build job
- Preparation for the follow-up processes through customer-specific direct implementation of the CAM tools possible
- Direct implementation of the CAM tools enables the follow-up process-specific alignment of the component and the support geometries

**HIGH DATA CONSISTENCY**
- Consistent data management across the entire product production process in Additive.Designer®
- The geometric data zero point contained in the construction data for post-processing, measurements or hybrid production is defined across all steps
- Data transfer to standard CAM tools via integrated interfaces

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**With Patented ThermoLock**
Automated interlocking of the zero point clamping system through the integrated installation space heating

**Available with Additive.Designer®**
Additive.Palletizing is a plug-in of our data pre-paration software called Additive.Designer®

**A.PS Pallet**
Substrate Plate + Base Panel

**A.PS Grid Plate**
Mounting Plate
Component of the SLM® machine

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# The Process Chain of Additive.Palletizing

## SLM®/CAM Data Preparation

Due to the intuitive usage of the data preparation software Additive.Designer®, in conjunction with Additive.Palletizing, the creation of AM, CAM, and reference data becomes as easy as can be.

## Build Platform Configuration

The modular build platform can be allocated in various size configurations. Single components can be optimally allocated to these pre-configured substrate panel segments.

## Mounting of the Machine

Due to the patented ThermoLock, the loading/unloading of the SLM® machine can be executed quick and simple. The A.PS-pallets are fixed in place without screws and can be moved by robots via gripping grooves.

## AM Build Process

The A.PS-pallet is fixed and centered by the ThermoLock automatically. The defined zero point ensures highest precision during manufacturing process. (process-reliable repeatability of approx. 0.005 mm)

## Post-Process

The zero point clamping system ensures high precision for post-processing on various tooling machines. The system allows for 5-axis machining, heat treatments, finishing work, measuring, etc.

## Part Management

Additive.Palletizing focuses on both automated part handling within and between individual production machines, and on possible commissioning run by automated storage systems.

## Data Preparation - Pre-Process

<table>
<thead>
<tr>
<th>IN-PROCESS DATA</th>
<th>POST-PROCESS DATA</th>
<th>AUTOMATED PART HANDLING</th>
<th>LOGISTICS</th>
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</thead>
<tbody>
<tr>
<td>*.SLM® File</td>
<td>(.CNC, .Q&amp;A Files)</td>
<td>Consistent data management of the entire production chain in the Additive.Intelligence Suite.</td>
<td></td>
</tr>
</tbody>
</table>

Successful preparation of data and component processes with a consistent setup.
AN OVERVIEW OF YOUR ADVANTAGES
Countless features

Process Management
Software Support through Additive.Designer®
Intuitive build job preparation and consistent data management across the entire product production process

Automation
Comprehensively Prepared for the Future
Consistent data management and automated A.PS pallet handling

Flexibility
Segmented Substrate Plate
Flexible planning and direct, automated post-processing of individual components of a build job

Precision
The Patented ThermoLock Zero point Clamping System
Automated and precise centering and screwless connection of the substrate plate, and thus of the component

Performance
Screw-Less Connection of the A.PS Pallets
Fast handling and optimal construction space usage of the A.PS pallets

Adaption
Clamping Chucks for Post-Processing Machines
Fast and precise connection of the Additive.Palletizing System with a post-processing machine

CONFIGURE AS OFTEN AS DESIRED
Innovative hardware

Clamp perfectly with pL Lehmann

Additive.Palletizing System Currently Available for SLM®280 Machines

Ex.: Possible allocation
1 x pallet 280 x 140 mm
2 x pallet 140 x 140 mm

Ex.: Possible allocation
1 x pallet 280 x 70 mm
2 x pallet 140 x 70 mm
4 x pallet 70 x 70 mm

Manual Clamping Chucks
Clamping system combines manual and pneumatic activation

Pneumatic Clamping Chucks
Suitable for all machines with grooved clamping table and/or pL Lehmann auxiliary axes