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# Aage Guss aus Aalen

**Aalener Gesellschaft für Leichtbauteile**

**- Entwicklungsgießerei -**

certified pursuant to EN ISO 9001:2015

certified pursuant to EN ISO 14001:2015

## Our Recommendation: System Piston - Piston Rod

By the system **piston - pistod rod**, being provided by us, you have several advantages:



1. **Feeding:** For casting of shrinkage-free parts, the following conditions must be fulfilled:
  - Directional solidification within the casting to the ingate;
  - Melting at the ingate area at least must be fluid as long as within the cast part;
  - For feeding there must be enough melt in the shot sleeve. Therefore a short dosing time owns a big advantage (supply of melt from the holding furnace to the shot sleeve). One second dosing time is better than two.
2. Responsible for **flash** is the pressure impulse at the end of the form filling phase by transformation of the kinetic energy into pressure. By the piston rod of an aluminium alloy the moving mass is halved. The arising pressure impulse leads to an elastic deformation of the piston rod rather than to pressing the mold open.
3. **Precise, not mold-bounded dimensions:** The relations, being described under 2., lead to obviously reduced dimensional deviations for not mold-bounded dimensions.

If there are questions, please feel free to contact us.

With kind regards  
Aage GmbH

Prof. Dr. Dr. h.c. Friedrich Klein  
General Manager

by proxy (i. A.) Dr. Norbert Südland  
Quality Management and Research

Aalener Gesellschaft fuer  
Leichtbauteile mbH  
Domicile of the Association:  
Schleiermacherstrasse 20,  
D-73431 Aalen  
**State:**  
Aalen, 09/18/2018

**Foundry and Office:**  
**Roentgenstrasse 24, D-73431 Aalen**  
Tel.: +49-(0)7361-490812-0  
Fax: +49-(0)7361-4908118  
Foundry: +49-(0)7361-490812-7  
E-mail: [mail@aage-leichtbauteile.de](mailto:mail@aage-leichtbauteile.de)  
Internet: [www.aage-leichtbauteile.de](http://www.aage-leichtbauteile.de)

VR-Bank Ostalb eG  
Account No.: 606 920 005  
Bank code: 614 901 50  
Intern. Bank Account No. (IBAN):  
**DE64 6149 0150 0606 9200 05**  
BIC (SWIFT-CODE):  
**GENODES1AAV**

General Manager:  
Prof. Dr. Dr. h.c. Friedrich Klein  
Reg. court Ulm HRB 501 594  
Legal venue: Aalen /Wuertt.  
VAT number: DE 239 630 526  
Tax number: 50466 / 16615  
DUNS number: 55-141-8507