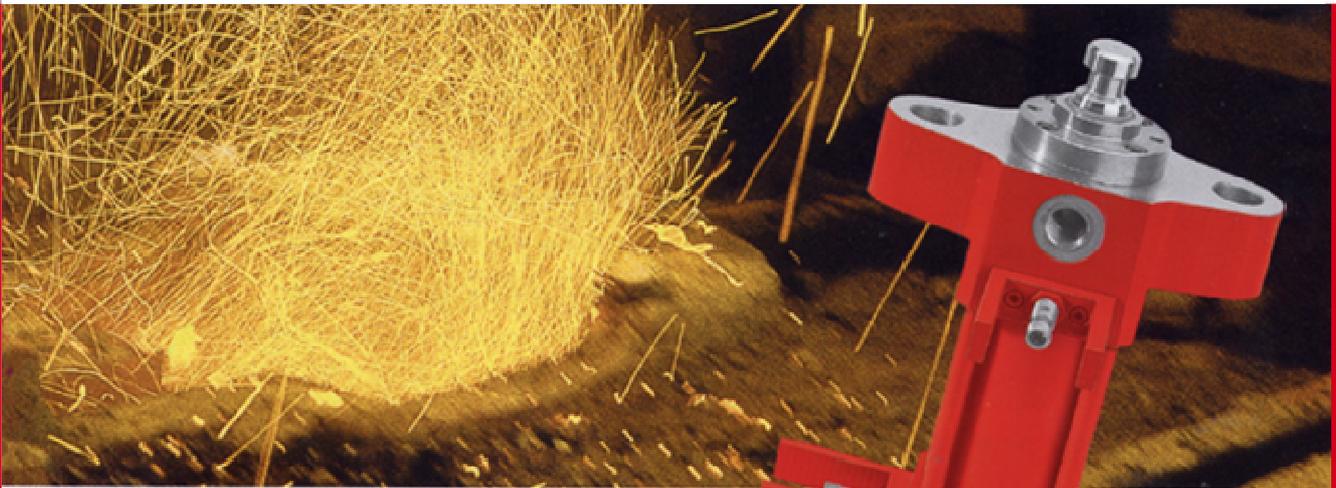


# Hydraulic cylinders for the foundry industry



Standard cylinders for machinery, molds and tools

Special cylinders for any task

System solutions

Equipment

In the foundry industry hydraulic cylinders are used under high stress during extreme operating conditions such as restricted space and high dirt loads and heat loads. Foundries, machine manufacturers and tool manufacturers require specially developed technologies and customized hydraulic cylinders. To meet these requirements we continually improve our products using our decades of experience. During construction we don't only consider the function of the cylinder, but consult our customers about its operating conditions. Important besides the parameters of the hydraulic supply are interactions with other machine components.

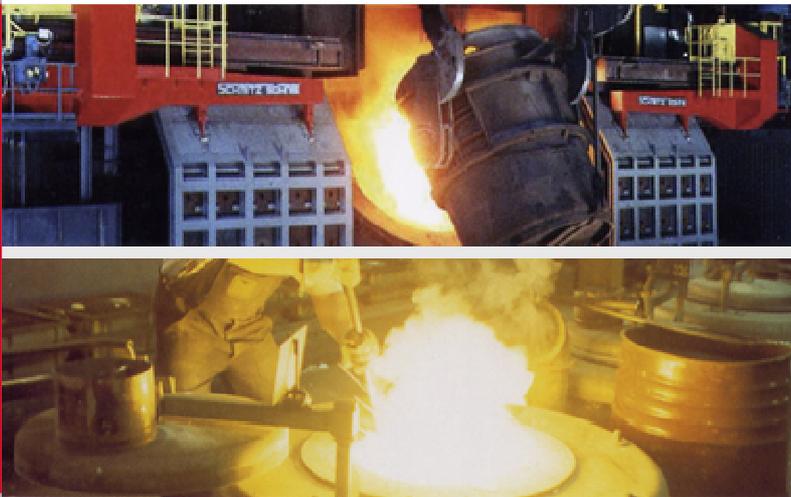
We offer:

- ▶ customized hydraulic cylinders
- ▶ reliable solutions
- ▶ sound professional knowledge
- ▶ many years of experience
- ▶ risk minimization regarding new developments
- ▶ high quality and reliability
- ▶ a long product life
- ▶ customer specific solutions
- ▶ a wide range of accessories



*Precision in Motion*

# Hydraulic cylinders for the foundry industry



## Excerpt from reference list:

- ▶ ae Group
- ▶ Andreas Stihl AG
- ▶ Daimler AG
- ▶ KSM Castings
- ▶ Oskar Frech
- ▶ Pierburg GmbH

## Our cylinders for the foundry industry

- ▶ **Core pull cylinder:**
  - all common interfaces
  - customer-specific adaptations
- ▶ **Machine cylinder:**
  - e.g. ejecting cylinder, locking cylinder
- ▶ **Power stroke hydraulic cylinder:**
  - cylinder designed for pulling with two pistons
  - high tractive force and quick procedure
- ▶ **Hydraulic cylinder with cooling:  
(e.g. standard cylinder Type 44)**
  - jacket cooling (air or water)
  - cooling of the cylinder head
  - internal cooling of the piston
- ▶ **Guided hydraulic cylinder:**
  - lift function and guidance of the load due to hardened outer guidance
- ▶ **Hydraulic cylinder with hydraulic interlock:**
  - locking via check valve
  - high holding forces due to hardened outer guide surface
- ▶ **Hydraulic cylinder with mechanical interlock:**
  - form-fitting locking of the piston rod, high holding forces
  - compact design, easy adjustment
- ▶ **Hydraulic block cylinder:**
  - any kind of construction and function
  - wide range of applications due to compactness

