06/202

LOCATIONS



MASTERING ALUMINUM DIE CASTING

In the automotive industry, die casters are adept at producing large, thin, and intricate aluminum castings. The size and complexity of these castings have increased significantly, with many now serving structural purposes.

This process is already being executed efficiently and profitably on a large scale. There are no hidden secrets in this craft. However, the distinction between knowing how to do it and actually executing it is significant.

When theory meets reality, the most fundamental principle of die casting becomes evident: a chain is only as strong as its weakest link.



BETTER CASTINGS FASTER

ELEVATE YOUR CASTING PROCESS WITH ADVANCED PLUNGER TIPS

SUPERIOR MATERIAL

- Rapid Cooling : High thermal conductivity and conformal cooling for quick solidification of molten aluminum.
- Controlled Expansion : Minimized diameter growth for consistent performance.

PRECISION ENGINEERING

- Reduced Vibration : Perfect clearance to prevent chatter and wear.
- No Leakage : Optimal fit to enhance efficiency.

ENHANCED SAFETY AND LONGEVITY

- Improved Safety : Advanced lubrication system with splash guard.
- Extended Tool Life : Con-Duct offers exceptional toughness/crack resistance.

SAFE		🖌 LONG-LIFE



PATENTED



Many of Castool products and processes are **patented**.







SHOT SLEEVES / INSERTS

PLUNGER TIPS / LUBRICATION / SHOT BLOCKS



- REDUCES MACHINE DOWNTIME
- REDUCES SCRAP
- REDUCES PRODUCTION COST AND ENERGY USEAGE



CHILL VENTS

InterGuss



INCREASED RECOVERY REDUCED DOWNTIME LONG LIFE









LUBRICATION SYSTEMS Controllers, Application and Lubricants





CRP-R 100-350 mm

The plunger face of the CDP & CRP have cooling channels that follow its shape, allowing water flow to be closer to the heat source.

100-350 mm

This results in more than twice the contact area compared to Allper plungers, which improves heat dissipation.

Moreover, Con-Duct has 80% better thermal conductivity than tool steel, and 4 times the toughness, making it a superior material for HPDC

CON-DUCT

PRESS TOOLING We vacuum harden and guench all hot work tool steel to give the best possible

microstructure. The chemistry and microstructure are examined and filed by our in-house metallurgical laboratory.

Press Tooling : Shot blocks, distributors, shot plates, cooling rings, platen sleeves, die sleeves, tie rods, couplers, bushings, spreaders, runners, water jackets, die inserts



CDP-A 40-100 mm A-25, A-45, A-52, Dievar H-13(1.2344) and Con-Duct

ALLPER





SHOT BLOCK

Distributor

CLS-200

✓ HIGH FLASH POINT ✓ LOW VISCOSITY V BIODEGRADEABLE



AMP-RVR

ABP-R

ABP-A