

LOCATIONS

CANADA

CANADA

MEXICO

MOROCCO

THAILAND

>> www.castool.com <<

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.

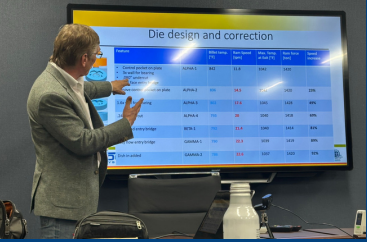
When theory meets reality, the most fundamental principle of die casting becomes evident: a chain is only as strong as its weakest link.

BETTER CASTINGS FASTER

PLUNGER TIP COOLING TO ENSURE PLUNGER STABILITY AND BISCUIT SOLIDIFICATION

Tip Dia (mm)	Water Out- Flow (l/min)	Tip Dia (mm)	Water Out Flow (l/min)
40-60	5-10	130-140	35-40
60-70	10-15	140-150	40-50
70-80	15-20	150-175	50-60
80-100	20-25	175-200	60-70
100-120	25-30	200-230	70-100
120-130	30-35	230-320	100-250

- ☒ SAFE
- ☒ RELIABLE
- ☒ LONG-LIFE
- ☒ EFFICIENT
- ☒ ECONOMICAL



Biscuit from Castool CDP-A Plunger Tip

PATENTED

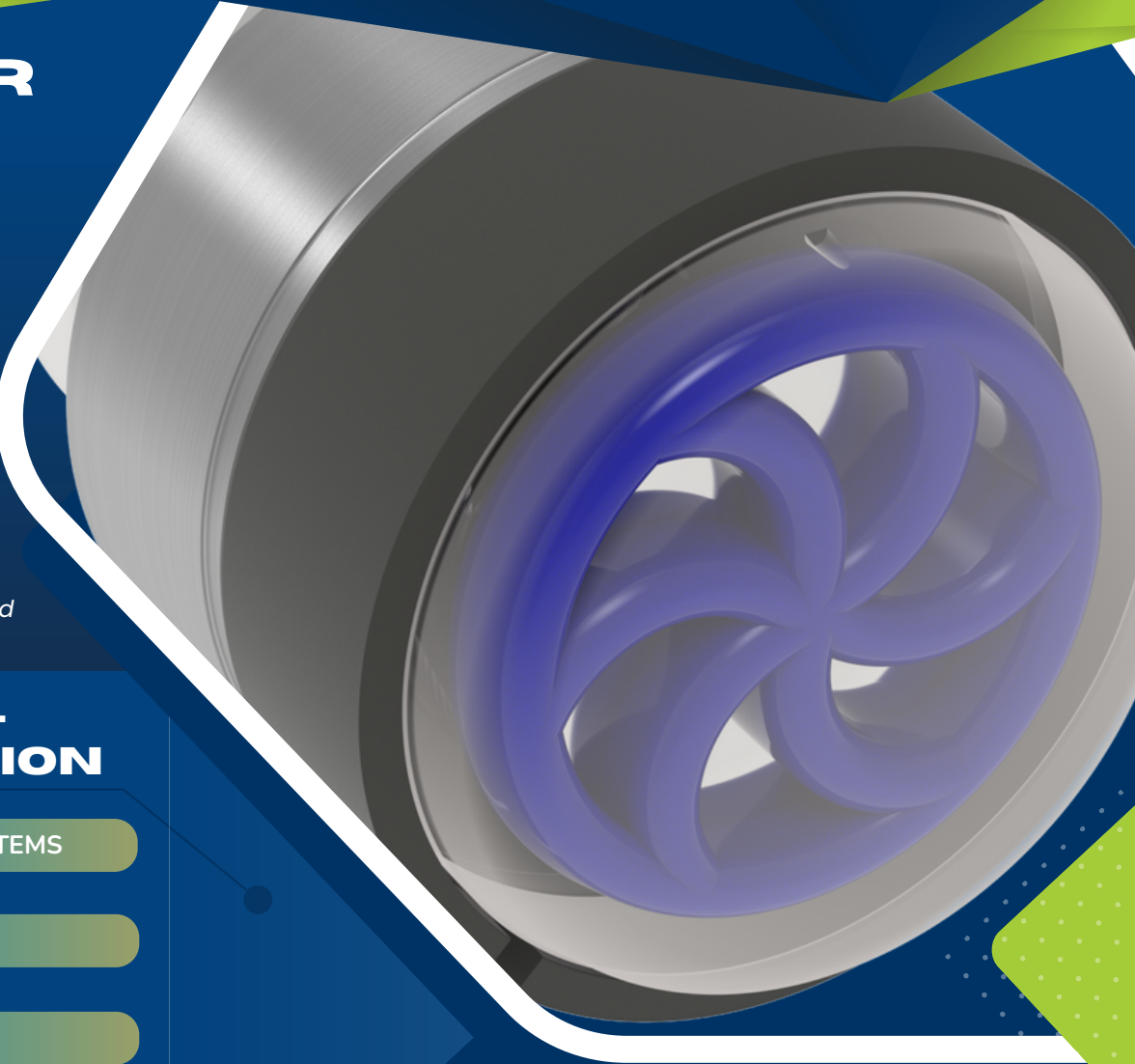


Many of Castool products and processes are **patented**.



TOTAL SOLUTION

- CONTROL SYSTEMS
- HARDWARE
- TRAINING
- INSTALLATION



CASTOOL
TOOLING SYSTEMS

+1.905.852.0121 www.castool.com

VENTING

VACUUM CONTROL SYSTEMS

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



CHILL VENTS



- ✓ INCREASED RECOVERY
- ✓ REDUCED DOWNTIME
- ✓ LONG LIFE



SHOT SLEEVES / INSERTS

Gun-drilled shot sleeves up to
24" dia. X 100" (610mm dia. X 2540mm)



Efficient & Economical

3-Piece Sleeve made with Con-Duct, H-13 & Tuff-Temper with Split Collar



GIGA PRESS TOOLING

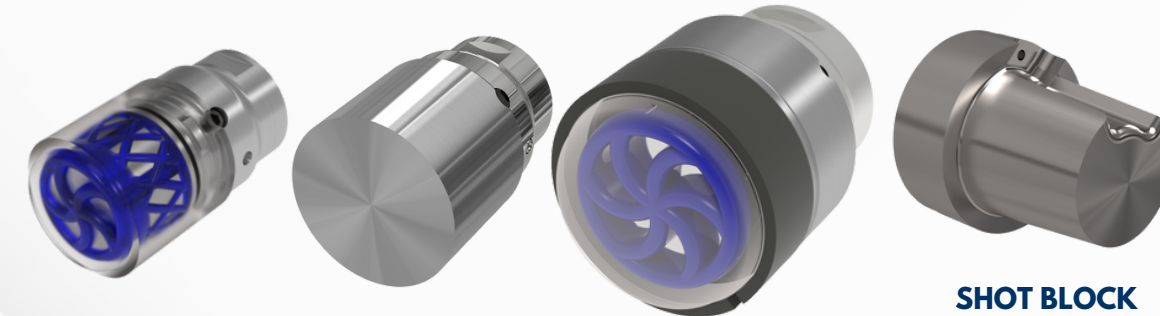
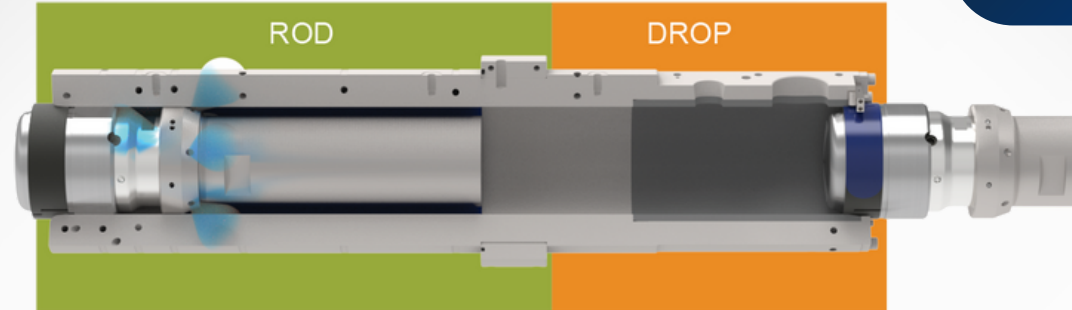
We vacuum harden and quench all hot work tool steel to give the best possible microstructure. The chemistry and microstructure are examined and filed by our in-house metallurgical laboratory.

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

PLUNGER TIPS / LUBRICATION / SHOT BLOCKS

LUBRICATION SYSTEMS

Controllers, Application and Lubricants



CDP-A/R
40-100 mm

CRP-A
100-350 mm

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.

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**

A-25, A-45, A-52, Dievar
H-13(1.2344) and **Con-Duct**



AMP-RVR

ARP-R

ABP-R

SHOT BLOCK
Distributor



PLG 48



CLS-200

- ✓ HIGH FLASH POINT
- ✓ HIGH VISCOSITY
- ✓ BIODEGRADABLE

- ✓ HIGH FLASH POINT
- ✓ LOW VISCOSITY
- ✓ BIODEGRADABLE



CON-DUCT