

APPLICATIONS

PUMPS



Photos compliments of Forward Technology, Minneapolis, Minnesota

OPERATION:

In the production of plastic injected parts, it is common to see flash form at the parting lines of the mold. Flash is excess plastic that has been forced out between the mold plates during the injection process.

For companies producing a high volume of parts, deflashing can add hours to producing a finished product, if the process is not efficient and effective. This inefficiency adds to the production costs and can extend delivery schedules.

Forward Technology Industries, Inc. of Minneapolis, Minnesota has produced a system using high pressure water with automated machinery for deflashing molded parts. These parts are loaded into a hopper, sorted and then loaded into special holders. Several nozzles delivering 4000 PSI of water are precisely aimed at each part for total removal of flash. Each part is deflashed in 1.25 seconds. One person, operating two systems, deflashes 5760 parts per hour, significantly reducing labor cost and lead time on each part.

FLASH REMOVAL

File No. 32

Section 4

PROBLEM:

To find a fast, efficient method for total removal of flash on molded plastic parts.

SOLUTION:

Use high pressure water in a specially designed automated system.

SPECIFICATIONS:

CAT PUMPS Model (three).....	3507
Pressure	4000 PSI
Flow	27 GPM
Temperature	125°F
Fluid.....	Water
Duty Cycle	Continuous
Drive (three).....	25 H.P. Electric

BENEFITS:

- Removes flash at a rate of 1.25 seconds per part.
- Only requires one person, operating 2 systems to deflash 5760 parts per hour.
- Significantly reduces lead time for parts.
- Dependable, continuous duty CAT PUMP assures system "up time" and minimizes maintenance "downtime".



Closeup of Power Unit drive source.

"Customer confidence is our greatest asset"

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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