

HUSKY®



HPP5 Technology Upgrades

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HPP5 Technology Upgrades

- Value
- Technology

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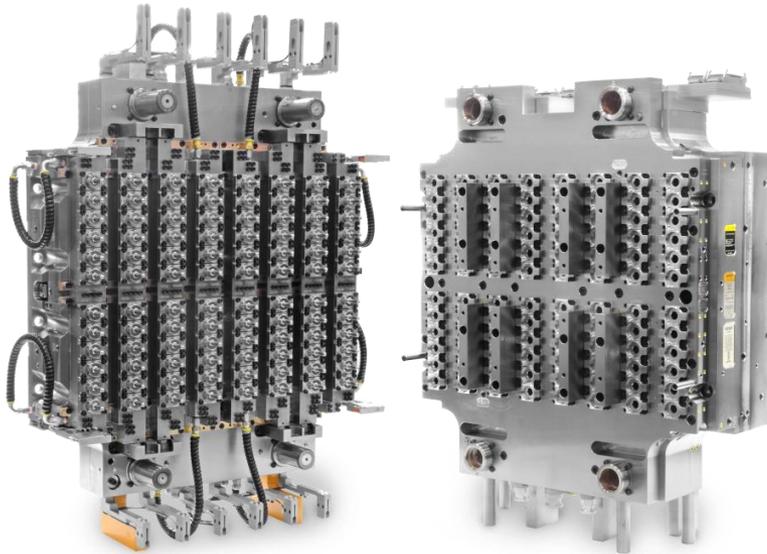
HPP5 Technology Upgrades

- Increased uptime
- Reduced manual maintenance
- Reduced wear and extended part life





Cold Half HPP5 Technology Upgrades



Preventative maintenance interval
extended up to **3X!**

Example: If vents and tapers are cleaned
and lubricated every 40,000 cycles
currently, they will only need to be cleaned
and lubricated up to every **120,000** cycles

Mold Manual recommends vents and tapers be cleaned and lubricated up to every 45,000
without HPP5 technologies and up to every 120,000 with HPP5 technologies

Actual values depend on preform application and operating conditions

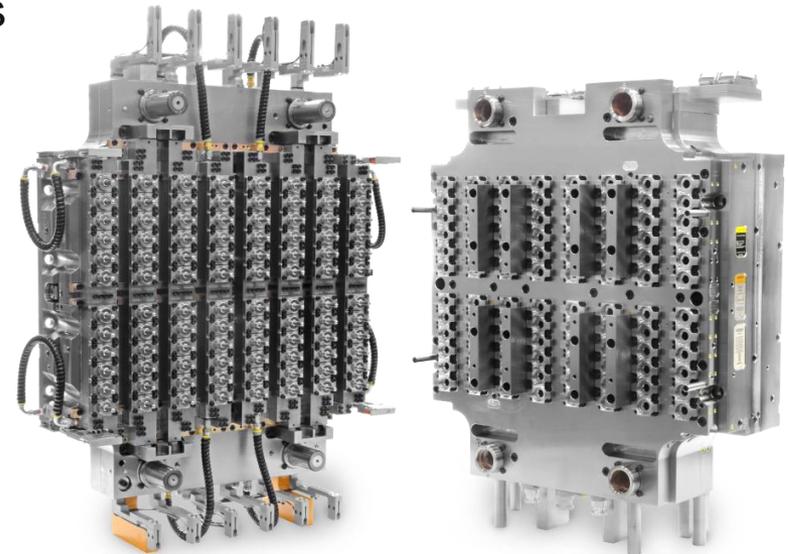


Cold Half HPP5 Technology Upgrades

Cold Half life is extended up to **10M** cycles without refurbishment with the HPP5 Technology Upgrade package

This results in:

- more uptime
- less conversion costs
- deferred conversion costs



Actual values depend on preform application and operating conditions

Hot Runner HPP5 Technology Upgrade



Maintenance intervals **extended**
by up to **1,000,000** cycles

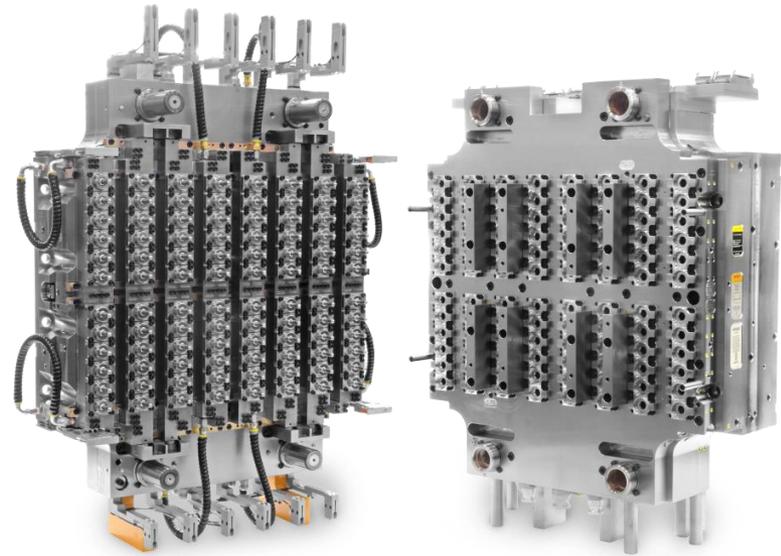
Up to **33%** improvement
compared to non HPP5

Eliminates 2 Basic Refurbishment
programs from a 24 million shot
life cycle

Actual values depend on preform application and operating conditions

Cold Half HPP5 Technology Upgrades

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Cold Half HPP5 Technology Upgrades

Integrated Mold Alignment (IMA)

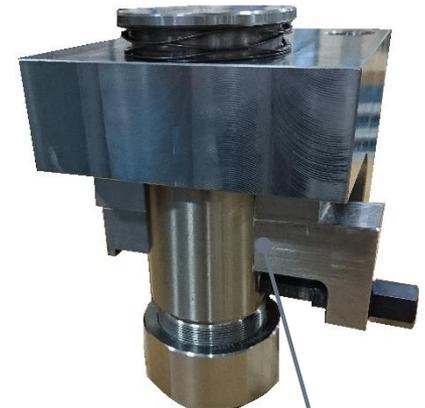
- Increases taper greasing interval
- Protects stack coatings and components from fretting
- Prevents future accelerated mold wear



Sensors detect position of core plate with respect to cavity plate



Position displayed on HMI, with instructions provided to resolve misalignment



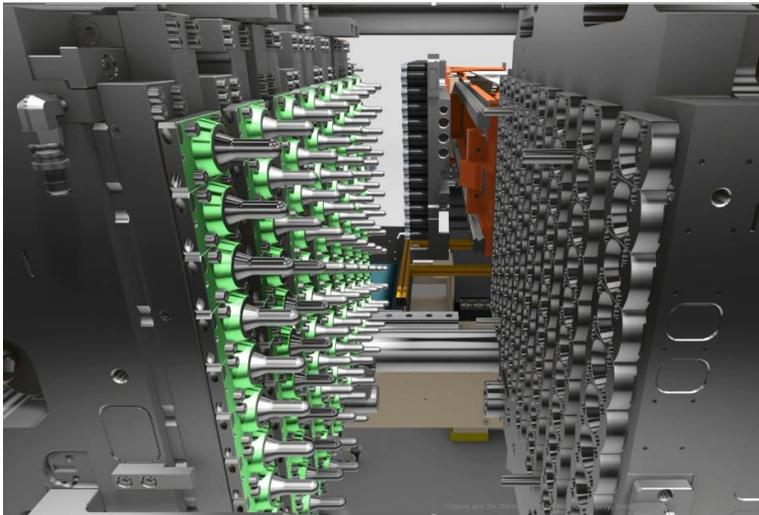
Vertical core plate position adjusted by turning handle on positioning device as per instructions



Cold Half HPP5 Technology Upgrades

HPP5 Neck Ring Coatings

- Increases taper greasing interval
- Reduces adhesion, abrasion and corrosive wear



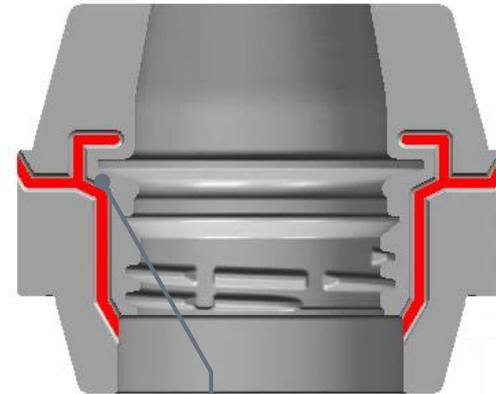
Coatings may require more frequent lubrication or coating may get removed if mold and neck rings are not properly aligned



Cold Half HPP5 Technology Upgrades

Profiled Neck Ring Vent Groove

- Increases vent cleaning maintenance interval
- Reduces PET dust build up



Non HPP5 Standard - Collector groove profile not customized to thread geometry

For a mold without a profiled vent groove, manual vent cleaning may be needed more often.

Cold Half HPP5 Technology Upgrades



'Z' Neck Ring Molding Surface Finish

- Increases vent cleaning maintenance interval





Cold Half HPP5 Technology Upgrades

A combination of HPP5 technologies are required to recognize the full value
Non HPP5 standard neck ring vent cleaning and taper greasing interval = up to 45,000 cycles



IMA



NR Coating



Profiled Vent



'Z' Surface Finish

= up to **3X** extended maintenance interval

Hot Runner HPP5 Technology Upgrades

- Value
- **Technology**





Hot Runner HPP5 Technology Upgrades

A combination of HPP5 technologies are required to recognize the full value

Non HPP5 standard nozzle tip, piston seal, cylinder cap, valve stem and insulator replacement interval is recommended at 3,000,000 cycles.



= up to **1,000,000** additional cycles



Maintenance can be scheduled and tracked on HMI

Available on the following mold ID systems:

- HPP5
- HPP 4.0
- HyPET 4.0

Maintenance intervals can be changed on the HMI to reflect the HPP5 Technology Upgrade or the customer's desired maintenance interval

	Enable	Maintenance Interval cycles	Advance Notice Limit cycles	Maintenance Due In cycles	Overdue By cycles	Program Details	Configuration
Initial Maintenance							
Program A1	✓	500,000	300	494,652		🔍	⚙️
Preventive Maintenance							
Program A	✓	250,000	5,000	244,652		🔍	⚙️
Program B	✓	1,000,000	12,000	994,652		🔍	⚙️
Program C	✓	3,000,000	48,000	2,994,652		🔍	⚙️
Program D	✓	800,000	100,000	794,652		🔍	⚙️
Program E	✓	1,600,000	100,000	1,594,652		🔍	⚙️

Adjust as required

Mold Maintenance - Program D - Maintenance Interval

800,000 cycles

20,000.000

20,000,000

800,000

1,000

Serial Number:hycap4, Version:MCDev.PL000-001, Mold ID:, Resin Type:

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