

ESSENTIAL DIVERSITY: **STAR-LINE.**



Modern Hot Runner Systems
for Edge Gating



HEITEC MEANS INNOVATION.

**We offer technology that leaves
nothing to chance.**

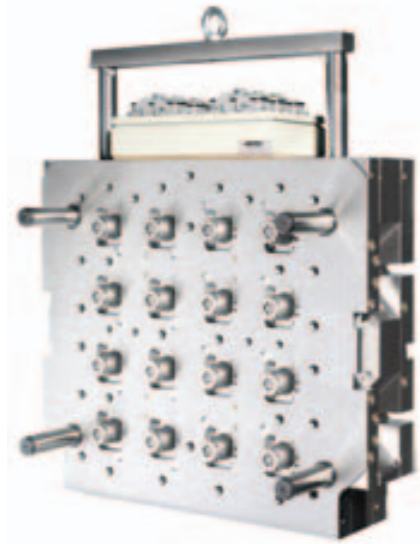
Heitec - as a pioneer - developed in 2004 an edge gating system with the greatest benefit for you. Ever since the invention of the revolutionary Star-Line-Technology it has continually been improved and has proven itself thousands of times.

Further development resulted in a harmonious and complete concept. This progress was triggered a lot by the requirements and wishes of our customers.

**Thank you for continually
supporting our enthusiasm for
innovation.**



HEITEC



16 Star-Line Nozzles with 6 tips = 96 cavities

THE CLASSIC

Our developments in 2004 set new standards for edge gating. This nozzle combines the advantages of both edge gating types, open and with tip, without showing their weak spots.

With the Star-Line you can achieve a clean gate vestige with no cold slug.

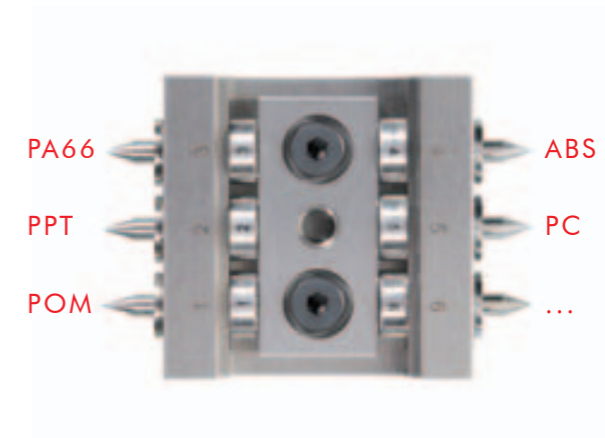
- no splitting of cavity inserts
- reliable cooling
- tip replacement and cleaning at the machine
- different tips applicable
- no parting line visible at the part
- available as a single or multiple nozzle
- maintenance free, by intelligent additional functions



STAR-LINE-RADIAL

Consistent improvements to the Star-Line nozzles made them suitable also for technical materials.

Even cycle breaks of 30 minutes do not cause damage to the processed plastic.



STAR-LINE-LINEAR

The linear design is particularly suitable for small cavity spacing and long, thin-walled articles, such as pipettes or syringe barrels. With a parallel arrangement of the nozzles articles can be gated directly from two sides, which helps to prevent the deflection of thin cores from the injection pressure.

The nozzle offers the maximum output per mouldsize and therefore an optimal use of the machine capacity.

The pitch dimension between articles can be from 10 – 26 mm. The maximum in precision and repeatability is achieved through thermal and rheological balancing.

Special sizes with up to 8 tips are available.



THE CORONATION:

The success of a series rises and falls with its continuation.

With the Star-Line-Crown the length expansion is not a limiting factor anymore. Mould construction heights are individually realizable by selectable length from 60 to 500 mm. The nozzle crown is fixed with its base in the mould plate. Therefore the tips remain at the predetermined injection point also after heatup. Hence, gate diameters of only 0.4 mm are realizable. The heat is concentrated in the center of the gate because of the thermal separation. So, even difficult engineering resins can be processed.



STAR-LINE CROWN

It also offers other unique advantages:

- additional design space because of the small nozzle size
- cleaning of the article venting in minutes, easily done by opening the hot half in the machine without disassembling of tips or nozzle crown
- maintenance free insert
- available with up to 8 tips
- available in linear and radial design
- assembling of the crown is possible from the front side or backside of the mould plate, depending on the basic body of the crown



THE SUCCESS STORY CONTINUES: Star-Line-Crown

design **One**...

The newest variation of the Star-Line-Crown injects around the corner. Thus it makes submarine gates and cold runners unnecessary.

Finally there is an edge gating solution, which eliminates plastic waste and also provides a clean gate vestige. This nozzle completes our range of products.



...and **Double**.

As with all Star-Line Nozzles you don't need to split the cavities. The small design creates a lot of space in the mould layout and allows numerous cavities in a small area.





TIP VARIATIONS for Top Tip Technology

Our tip variations offer possibilities you have never thought about.

HEITEC OFFERS service friendly details

For tip cleaning:

Tip cleaning with the Star-Line nozzles is a piece of cake: Disassemble the tip and turn off the plastic cap.



In our Heitec-technical school you can see:

- how the tip variations can influence the meltflow
- the mould filling
- the venting
- the core shift





HEITEC Heisskanaltechnik GmbH
Frankenberger Str. 25
D- 35099-Burgwald
GERMANY

Tel.: +49 (6451) 7283- 0
Fax: +49 (6451) 728383
info@heitec.com
www.heitec.com