INCOE® - Your partner
for the melt logistics inside your mold
INjection COntrOl Engineering

Our name is our commitment - for our customers worldwide

Company

Global presence:
5 production sites in key regions

On-site service:
Network of professionals serving 45 countries

Cross-continental:
Support for global projects managed on several continents

The original:
Privately owned pioneer in hot runner technology for more than 60 years

Service

Comprehensive project support:
From the idea, to the tryout, to full production

Operational assistance:
Production support, spare-parts service, on-site service

Information and communication:
System design, simulation, project consultation, training

Online:
CAD data and technical documentation over the internet

Product

Global:
The same components, spares, materials and guarantee worldwide

Comprehensive:
System solutions for virtually all markets and applications

Efficient:
Customized solutions using modular components with a small range of spare parts

Reliable:
Simple installation and operation, robust design, high level of operational reliability
High part quality and production efficiency thanks to our product - your “melt logistics manager” - in the mold

The way in which the mold cavity is filled has a decisive impact on the quality of the resulting part. A prior condition for optimal filling is that each gate is supplied with the ideal quantity of melt: the correct amount of melt at the right temperature, pressure and velocity flows into the cavity. The hot runner system has to ensure this kind of melt logistic between machine nozzle and the specified injection points, individually for each mold. INCOE solves this issue with customer convenience in mind by using a standard modular system developed over decades, which guarantees an optimal design for nearly every mold and process.

**Job description**

**Title:** Melt logistics manager

**Task:**
- Deliver the right quantity
- At the right time
- Unchanged and undamaged
- To the right place
- Economically

**Location:** Between nozzle and cavity

**Profile:**
- Robust / resilient
- Simple / comprehensible
- Reliable / sustainable

**Objectives:**
- Stable, economic injection molding process
- Production of high-quality plastic parts

**INCOE flow control technologies for optimum melt logistics**

**Direct-Flo™**
Balancing the flow channels, taking into account an optimum supply of melt to the gates with the lowest possible pressure loss and the best possible melt exchange inside the runner.

**SoftGate®**
Robust, straightforward control of the valve pin opening without additional controller for gentle injection on sensitive carrier material, for optimum surfaces and more.

**Valve Gate**
Valve gate technology for mechanical opening and closing of hot runner nozzles in order to manage the start and end of the melt flow into the mold cavity.

**Opti-Flo®**
Homogenization of melt quality due to melt rotation. Balancing errors due to a high shear rate are minimized, resulting in an equal fill of all cavities.