

# STASA QC

# **Optimize**

This program optimizes the machine's setting for the best quality, manufacturing time and process stability.

- Reduced cycle time and rejection rate
- Systematization of the set-up phase
- Quality documentation
- · Optimisation of energy and material efficiency
- Enhanced process knowledge
- Documenting the set-up process
- · Forecast process capability

#### Description

STASA QC Optimize was developed to optimize the machine's parameters for injection molding processes. The software automatically determines the relationship between the process parameters and quality characteristics through systematic design of experience (DoE) and analysis of the quality data. This results in optimum machine settings (holding pressure, cylinder temperature, etc.) that guarantee the required level of quality (dimensions, weight, flash formation, etc.) and achieve the most stable process (process capability forecast). In addition, alternative optima are determined using self-defined efficiency parameters. The effects of changing the process parameters can be simulated and followed directly on the display. The setup process is automatically documented in a report.

Both measurable (e.g. component measurements) and attributive quality characteristics (e.g. sink marks, flash formation) can be optimized. Innovative non-linear modeling processes are used to automatically distinguish linear processes from non-linear ones.

### **Application**

STASA QC is primarily used in plastic injection molding. The operating point navigator helps you understand the process better, improve quality and reduce cycle times. In addition, the energy and material efficiency can be increased.

The software can also be used for process settings in other manufacturing processes, such as aluminum die casting, extrusion or welding.





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#### **System Requirements**

Operating system	Windows 11
	Windows 10
Hard disk space required	800 MB
RAM	>4 GB (recommended)
Processor	>2 GHz (recommended)

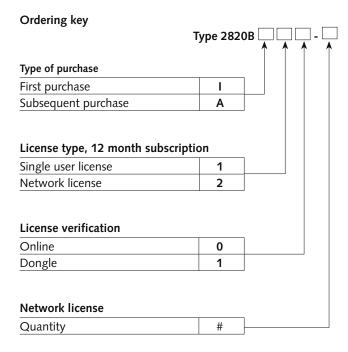
#### Technical Data

unlimited
unlimited
unlimited
yes
yes
yes
yes
CSV, TXT
yes (automatic detec-
tion and modeling of
non-linear interrelation-
ships)
yes
yes



## Technical Data (continued)

Forecast of process capability	Yes, including reference
, , ,	of necessary mould
	adjustment if needed
Diagram showing the influence	Separate one for each
of manipulated variables on quality	quality characteristic,
	extent and direction
	of influence
Documentation	Automated report
	generation and own
	comments



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