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 set-up 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.

System Requirements

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

Technical Data

Number of possible process parameters	unlimited
Number of possible quality characteristics	unlimited
Number of possible cavities	unlimited
Attributive quality characteristics	yes
Measurable quality characteristics	yes
Manipulated variables can be set in stages	yes
Automatic design of experiments (DoE)	yes
Import formats for experimental designs	CSV, TXT
Automatic model generation	yes (automatic detection and modeling of non-linear interrelationships)
Automatic determination of the optimum operating point considering effency parameters	yes
Interactive simulation of process	yes

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measure. analyze. innovate.

Technical Data (continued)

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

Ordering key

Type 2820B ☐ ☐ ☐ - ☐

Type of purchase

First purchase	I
Subsequent purchase	A

License type, 12 month subscription

Single user license	1
Network license	2

License verification

Online	0
Dongle	1

Network license

Quantity	#

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