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STASA QC

Type 2820A...

Operating Point Navigator

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
- Enhanced process knowledge
- Documenting the set-up process
- Forecast process capability

Description

The STASA QC operating point navigator 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). 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.

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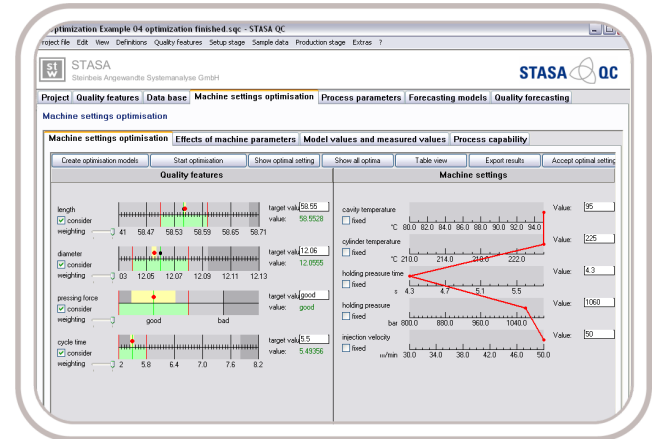
System Requirements

Operating system	Windows XP®, Windows Vista®, Windows 7®
Hard disk space required	400 MB
RAM	>1 GB (recommended)
Processor	>1 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)
Optimum operating point established automatically	yes
Interactive simulation of process	yes

QUALITY
MOLDING
powered by Kistler

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Technical Data (continued)

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 2820A ☐

STASA QC operating point optimization university license (free)	00
STASA QC operating point optimization, 1 license, unlimited usage period, including service during the first year	10
Annual update and service for Type 2820A10, requirement: Type 2820A10 must be available or have been ordered at the same time	11
STASA QC operating point optimization, 5 licenses, usage period 1 year including service and update during the usage period	20
STASA QC operating point optimization, 3 month trial license	30
STASA QC operating point optimization, upgrade of Type 2820A30 trial version to Type 2820A10 full version	31

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