

on line



CrimpCenter 36 SP

Concept and USP's	Slide 3
Performance	Slide 9
Set-up	Slide 15
Deposit Quality	Slide 18
Handling	Slide 19
Processing Capabilities and Stations	Slide 20
Options	Slide 29
Highlights	Slide 32
Markets Served	Slide 39
Technical Data	Slide 40
Summary	Slide 41

CrimpCenter 36 SP

NEWS: Announced on Productronica 2017



Increased effective performance

+ 13 %

Minimized set-up times

Change over

Wire cross-section - 30 s

Increased application range

Up to 6 mm²

Increased feeding speed

+25% feeding speed

[10m/s]

Significant cost-per-lead advantage

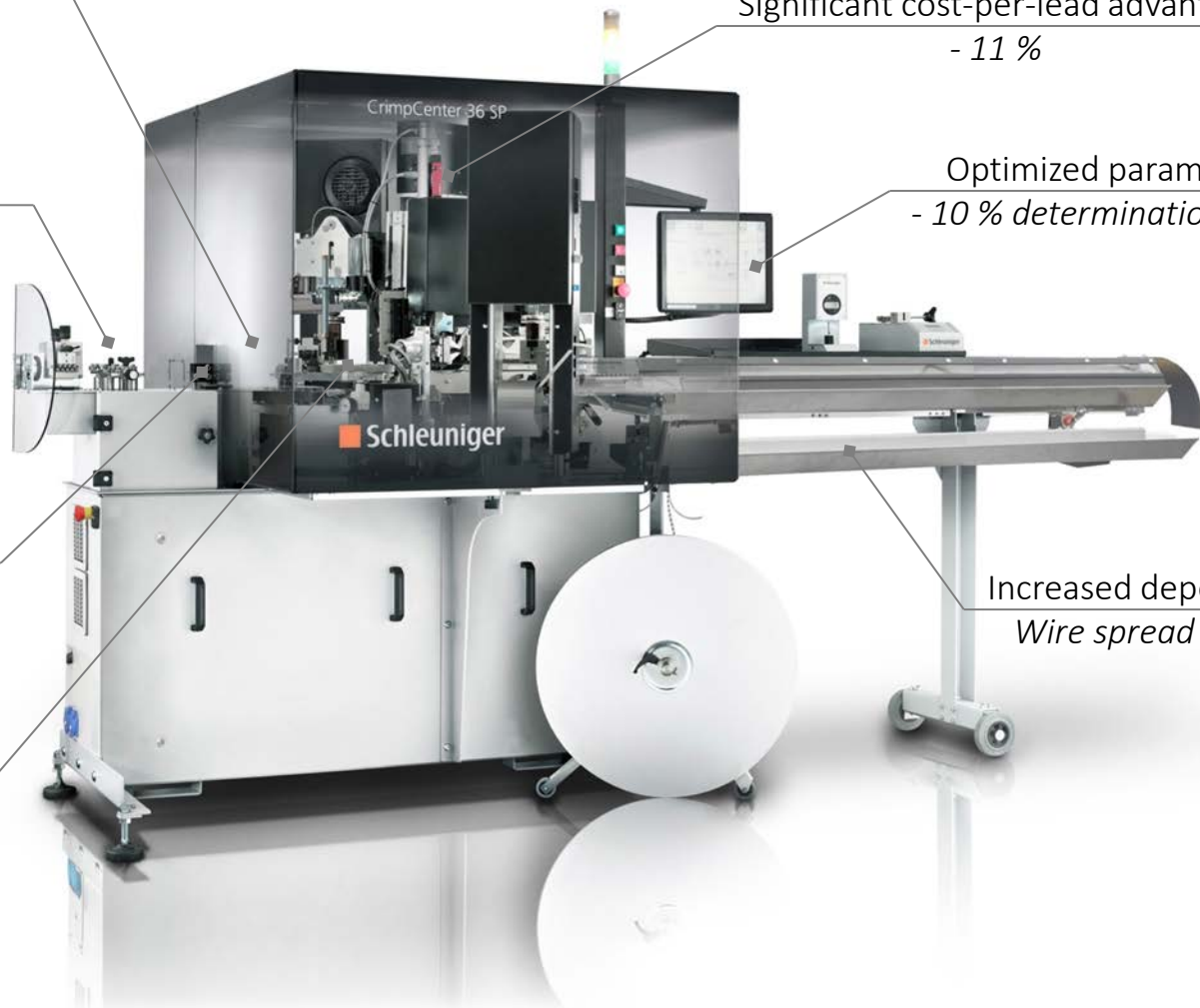
- 11 %

Optimized parameter

- 10 % determination time

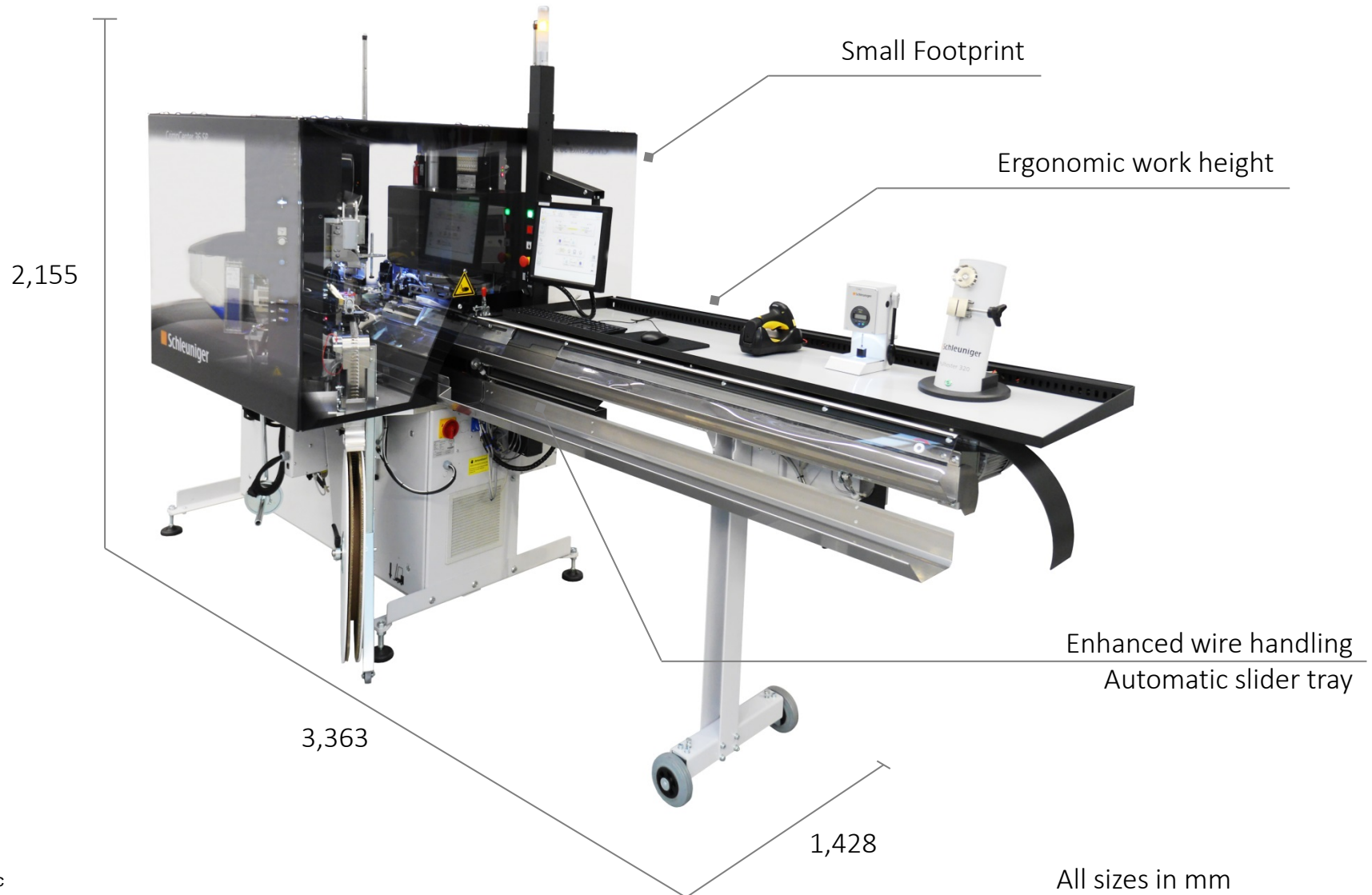
Increased deposit quality

Wire spread < 50 mm



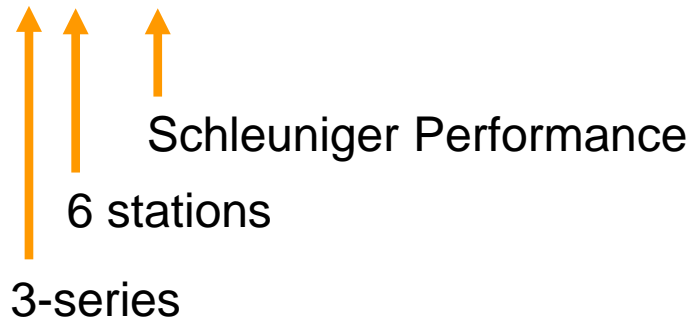
CrimpCenter 36 SP

Unique Selling Propositions



- Builds on the features and functionality of the CrimpCenter 36 S
- Flexible platform with up to 6 processing stations
- Ideal for precise production requirements with high quality output
- Reduces operator dependence with advanced capabilities
- Small footprint & ergonomic work height

Crimp Center 36 SP



CrimpCenter 36 SP

Function & Feature Comparison

	CC 36 S	CC 36 SP
Feeding speed [m/s]	8	10
Additional hardware switches to open/close the safety cover		●
Improved wire straighteners		●
- Angle adjustment		●
- Digital scale		●
- Interlock mechanism		●
Compatible cutter blocks to 6-series		●
Applicator guidance plates at the UniCrimp		●
Automatic “synchronization“ of feeding- and conveyor belt speed		●
Automatic slider tray		●

Caption:



Standard



Optional

CrimpCenter 36 SP

Function & Feature Comparison



	CC 36 S	CC 36 SP
Improved deposit quality		●
- One-piece tilting tray design		●
- Deposit gripper		●
- Programmable gripper pressure	○	●
- Changed cover profile to eliminate magnet brackets		●
- Default parameter settings		●
Option “automatic process pressure set-up“		●
Split cycle function	○	●
Remote control for station adjustments	○	●
TowerLight	○	●

Caption:



Standard

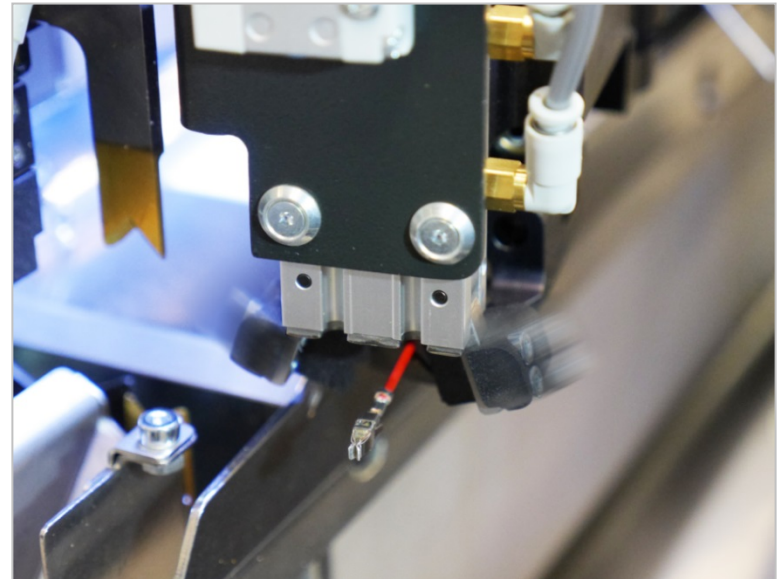
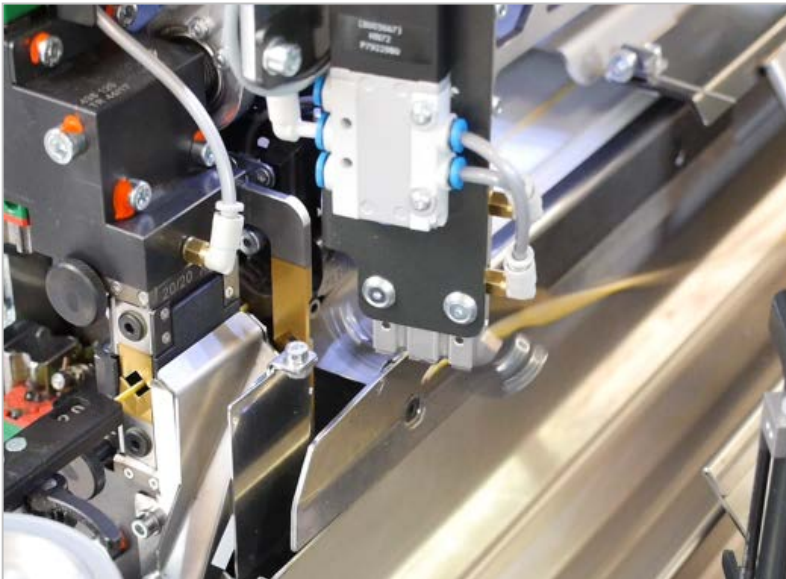


Optional

CrimpCenter 36 SP

Increased Effective Performance

- Optimized default parameter settings
 - recommends optimal processing parameters
- Newly developed deposit gripper system
 - makes sure all leads are aligned perfectly for easy removal



CrimpCenter 36 SP

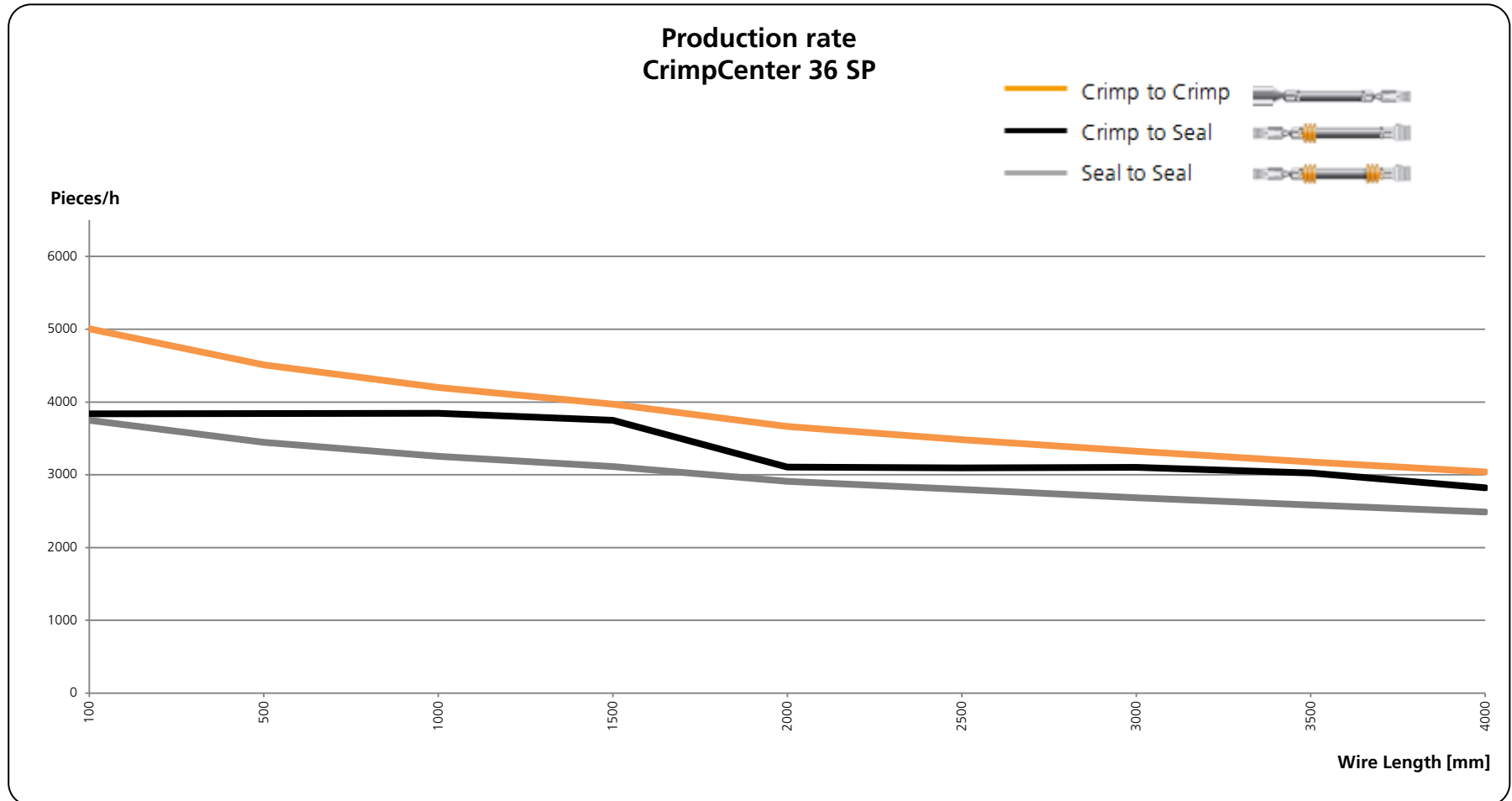
Increased Effective Performance

- Improved synchronization of the feeding unit and conveyor belt speed
 - “smoother” wire handling on the conveyor and improved deposit quality in the tray
- Increased feeding speed from 8 m/s to 10 m/s
- Improved wire guidance



CrimpCenter 36 SP

Performance Overview

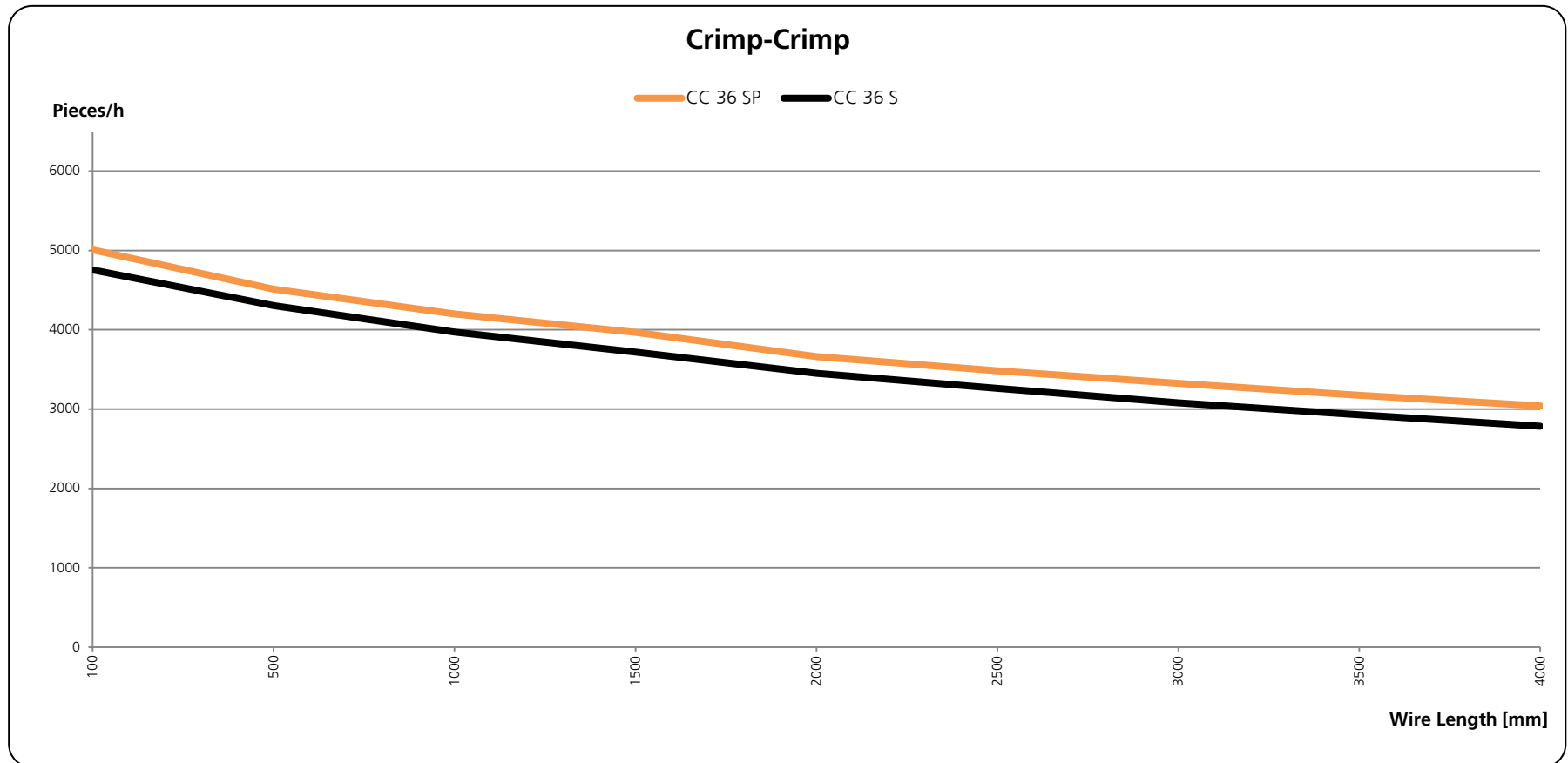


CrimpCenter 36 SP

Increased Effective Performance



- Average 10 % higher output

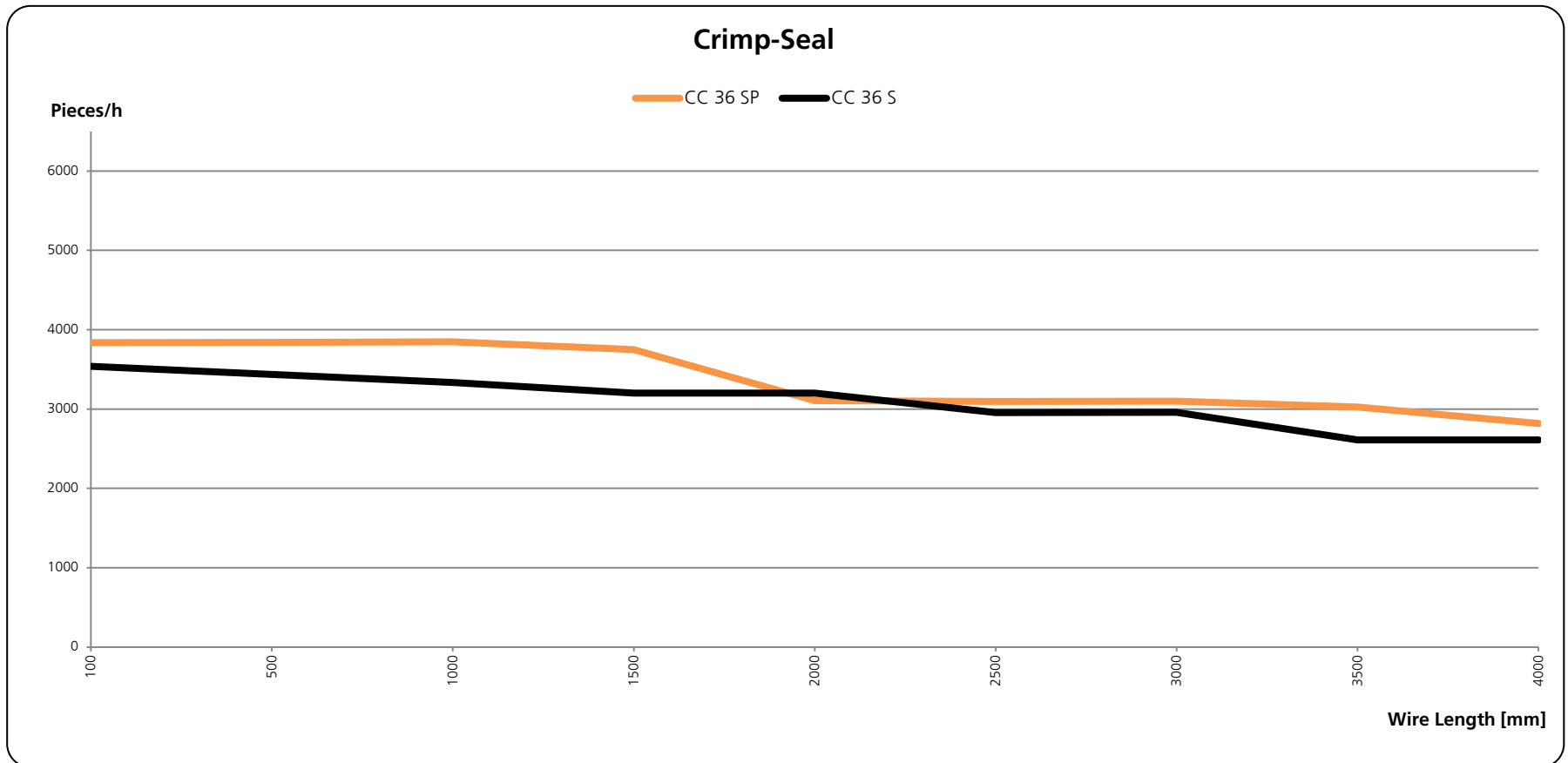


CrimpCenter 36 SP

Increased Effective Performance



- Average 10 % higher output

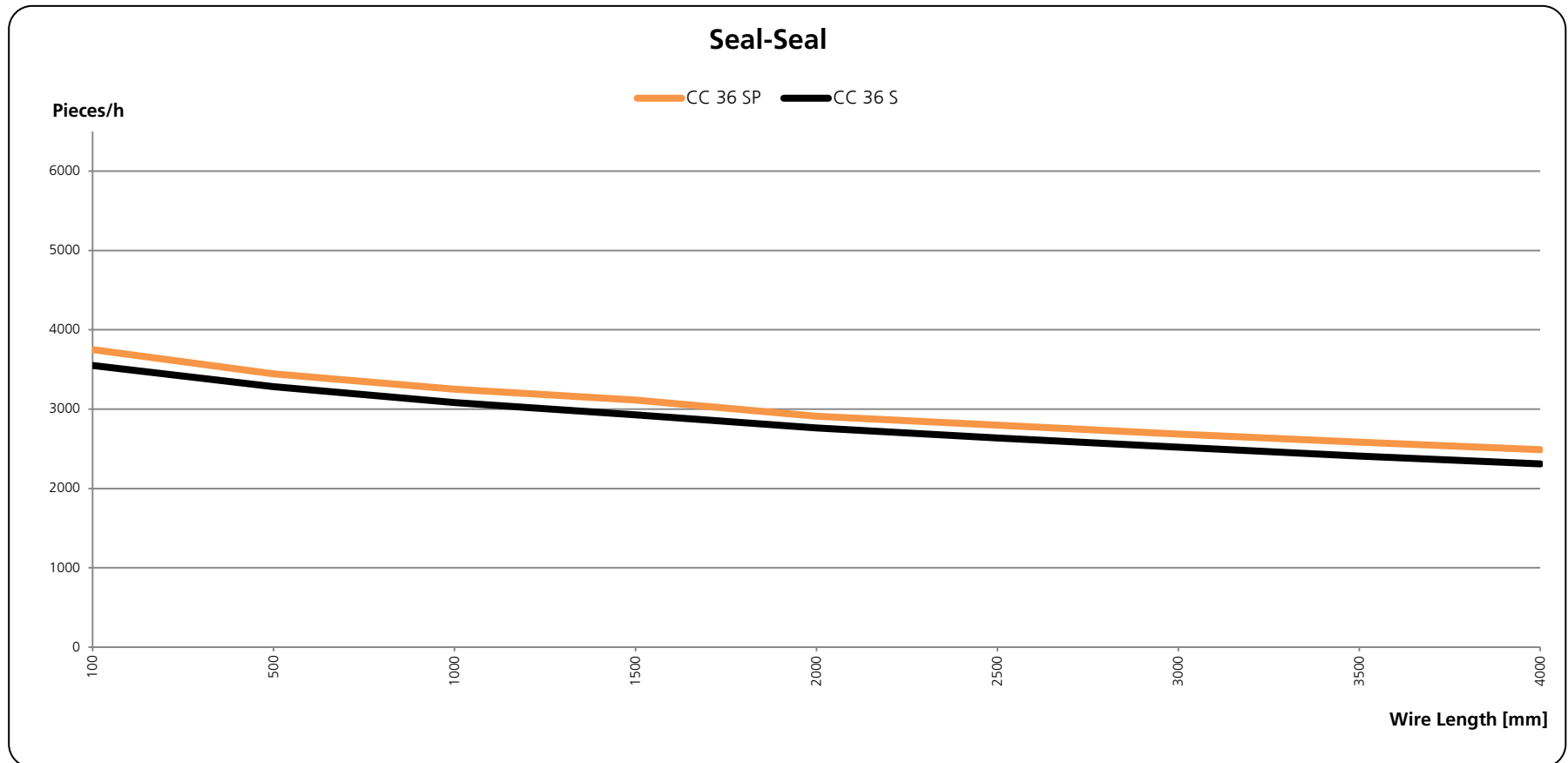


CrimpCenter 36 SP

Increased Effective Performance



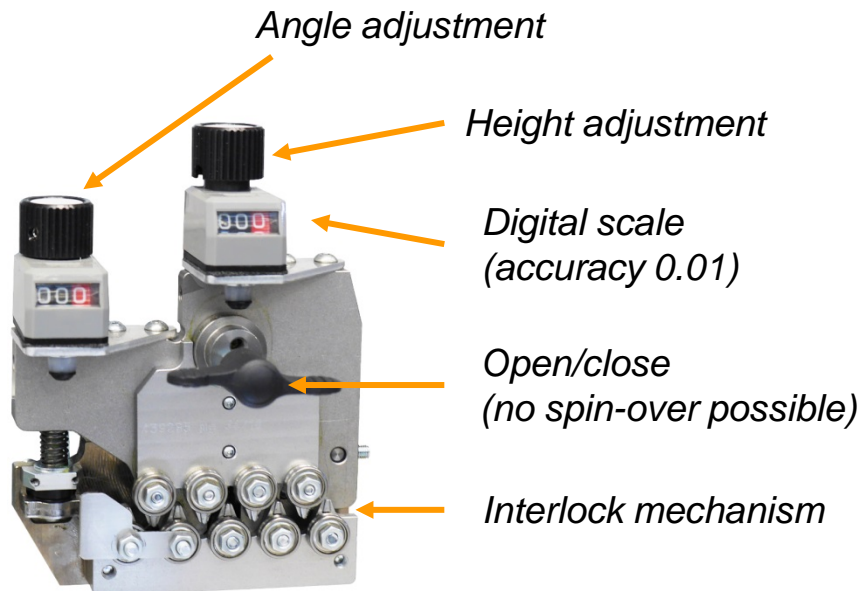
- Average 10 % higher output



CrimpCenter 36 SP

Decreased Set-up Time

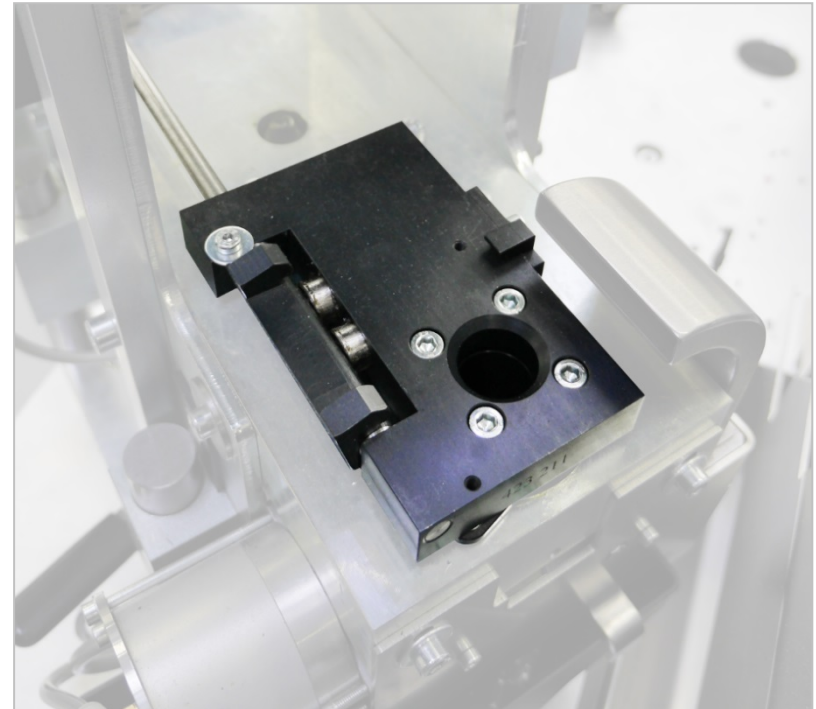
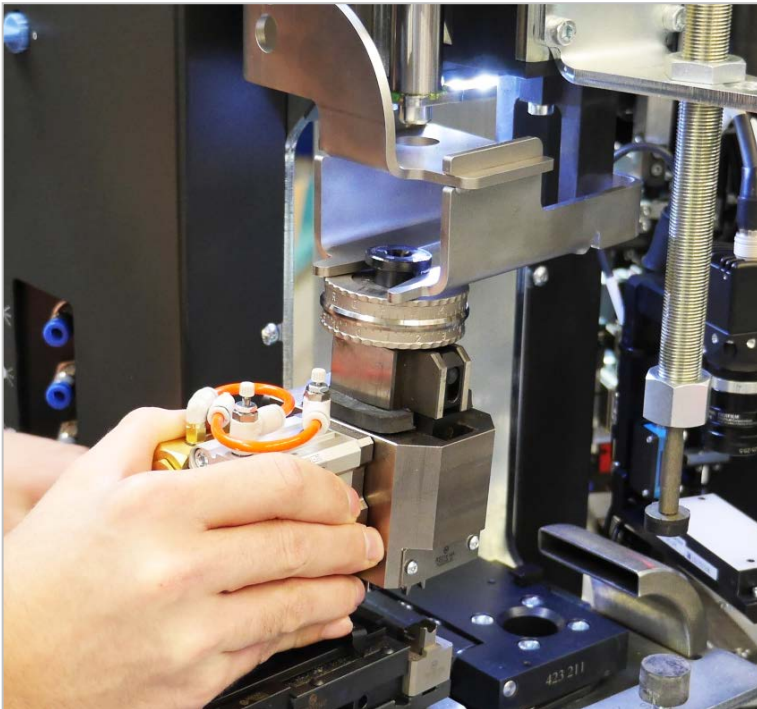
- Improved wire straighteners
 - Easier threading
 - Easier adjustment
 - Roller angle adjustment
- Additional safety cover switches
 - Reduces walking distances



CrimpCenter 36 SP

Decreased Set-up Time

- Applicator guide assemblies
 - Guides ram button into press adapter
 - Faster and easier applicator installation



CrimpCenter 36 SP

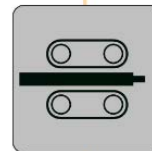
Increased Set-up Quality

- Automatic pressure adjustments
 - Programmable settings for feeding belts and grippers
 - Default parameters optimized for the application
 - Ensures change is made during setup
 - Improves consistency between operators
 - Pressures are monitored and actively regulated

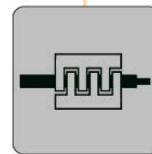
Manual
Adjustment



Wire
Feed



Gripper
Pressure



Automatic
Adjustment



CrimpCenter 36 SP

Enhanced Deposit Quality

- Deposit quality improvement by new conveyor design
 - More space for the wires
 - Improved wire containment and control
 - Reduced possibility of terminal damage
 - Easier removal of wire bundles



CrimpCenter 36 SP

Enhanced Handling

- Automatic slider tray
 - Easier wire removal for short applications and samples
- Integrated light tower and transformer
 - Clear indication of machine status
 - Simple conversion to the required voltage
- New control cabinet doors
 - Faster and safer maintenance access
- New station line routing
 - Easier access for maintenance
- New expansion plates
 - Easier retrofitting of additional options

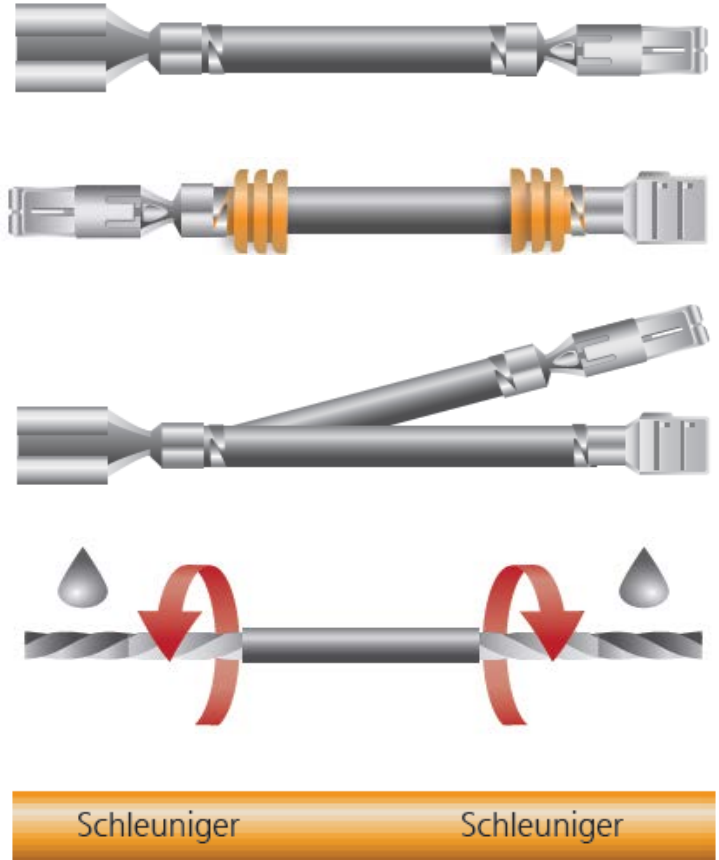


CrimpCenter 36 SP

Processing Capabilities



- Crimp (open or closed barrel terminals)
- Seal (one or both ends)
- Doubling crimp (2 or 3 terminals)
- Twist and tin
- Marking (ink jet or hot stamp)
- Custom station integration with ECM



CrimpCenter 36 SP

Processing Stations

- UniCrimp 221 crimping station with integrated CFM 20
- UniCrimp 222 crimping station with integrated CFM 20 and electronic crimp height control
- SealLoad 3100 seal loading station
- SLD 4100 double gripper module
- STW 1100 twisting station
- STS 1100 tinning station





Highlights

- Short cycle times
- High precision & reliability
- Modern technology
- Energy-efficient motor
- Integrated crimp force monitoring (CFM 20)
- Integrated base frame with height adjustment
- Integrated LED lighting
- Ram clamp option



Functions

- Quick-change system
- Adjustable stroke (30 mm or 40 mm)
- Accommodates a variety of applicator shut heights
- 4 crimping speeds
- Electric crimp height adjust (optional)
- Split cycle function option
- Pneumatic feed option
- Carrier strip cutter option

Highlights

- Improved cycle time due to optimized mechanism
- Widest seal application range
- Adapter for the integration of 3rd party seal kits
- Excellent accessibility for fast changeovers
- Tool-less seal kit changes
- SealKit sets for hard-shell, oval, mini-, and large seals



CrimpCenter 36 SP

SL 3100 – Sealing Station

Highlights

- Compatible with SLU 3000 exchange kits
- Precision seal placement with monitoring
- Low energy consumption
- Reduced operating noise
- Larger, transparent seal container
- Application parameters stored in EASY software



CrimpCenter 36 SP

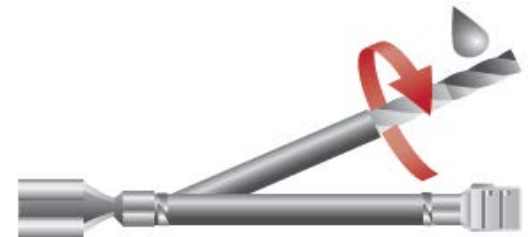
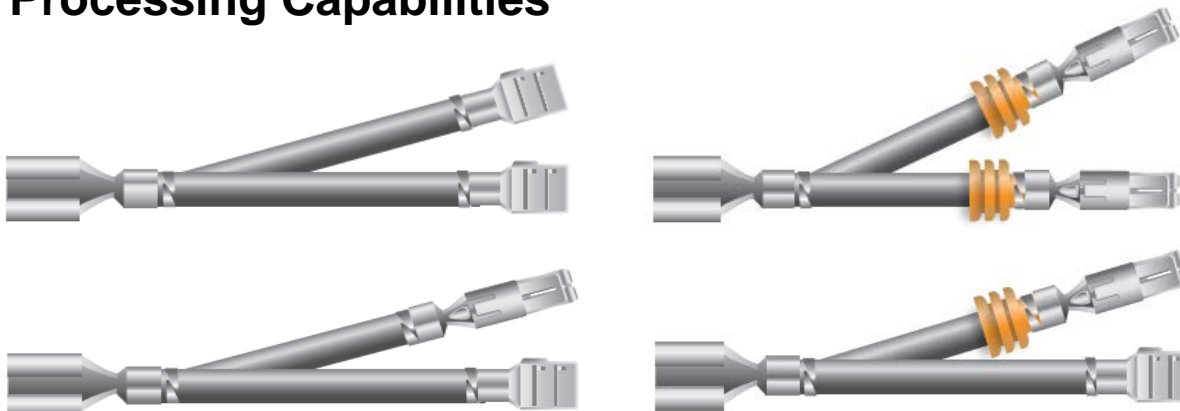
SLD 4100 – Double Gripper Module

Highlights

- Horizontal and vertical doubling crimp applications
- Outer diameters from 1 to 4 mm (0.039 - 0.157")
- Fully programmable in the EASY operating software
- No tools needed for changes



Processing Capabilities

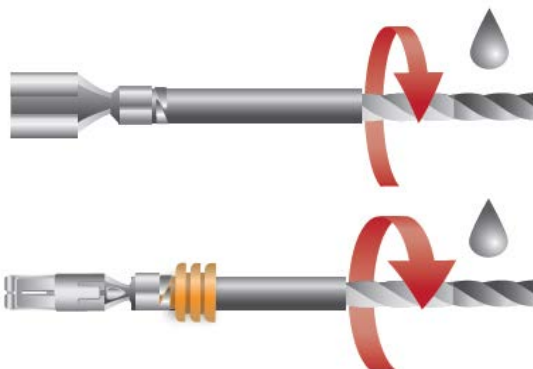


Highlights

- Wire cross sections up to 2.5 mm² (14 AWG)
- Fully programmable in the EASY operating software



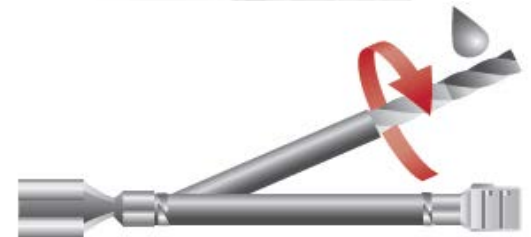
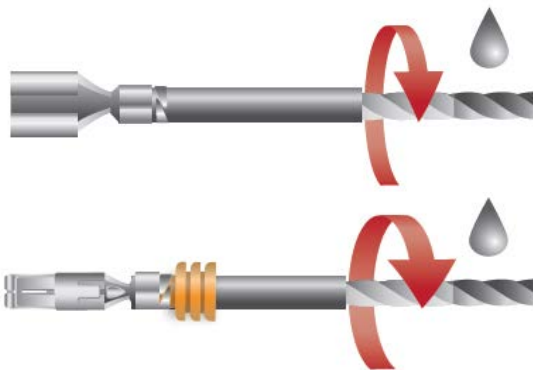
Processing Capabilities



Highlights

- For use with leaded or lead-free solder
- Consistently tinned diameters
- Wire cross sections up to 2.5 mm² (14 AWG)
- Fully programmable in the EASY operating software

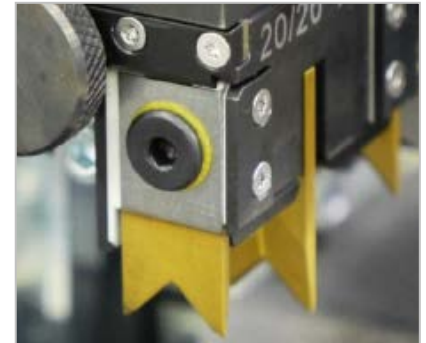
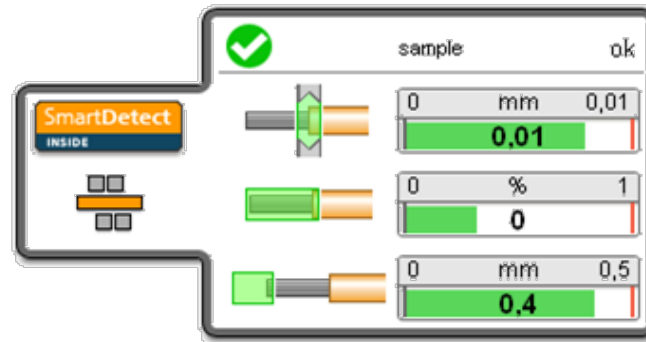
Processing Capabilities



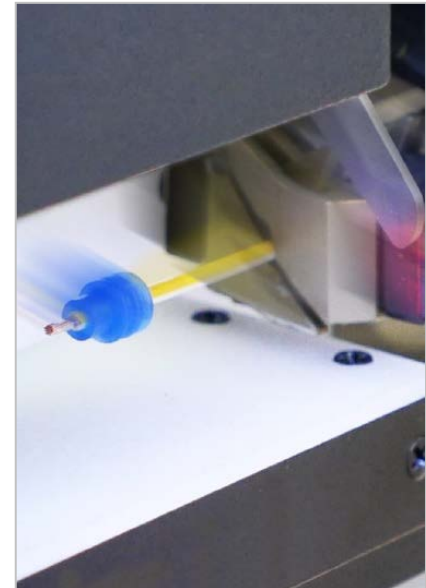
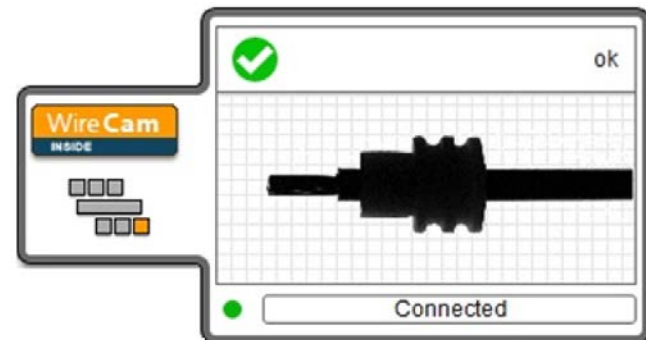
CrimpCenter 36 SP

Quality Assurance Options

- SmartDetect



- WireCam



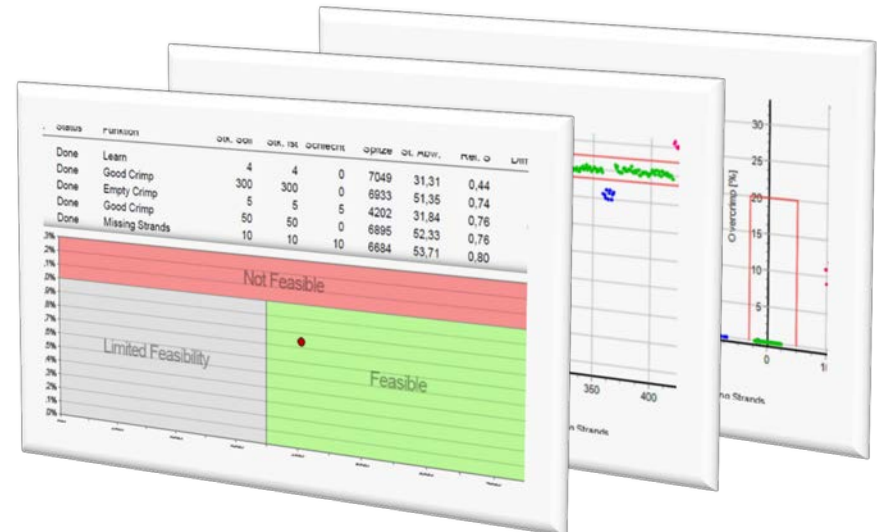
CrimpCenter 36 SP

Quality Assurance Options

- Material Change Detection



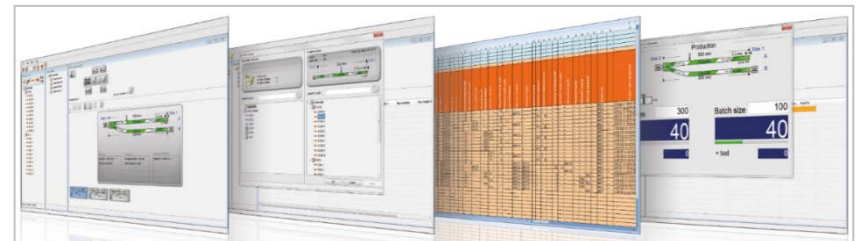
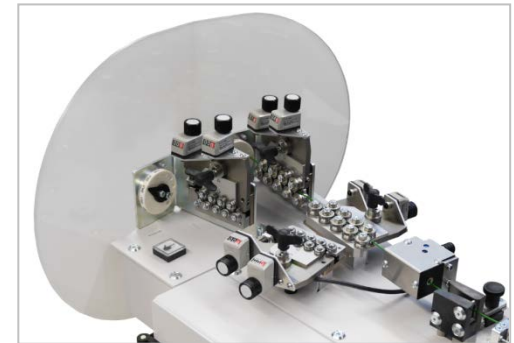
- Guided Feasibility Study



CrimpCenter 36 SP

Options

- ToolingShuttle System
- Two-wire wire straightener unit
- Extension conveyors
- PreFeeding systems
- EASY ProductionServer software



CrimpCenter 36 SP

Highlights - Technology

- „Off-the-shelf“ components for best availability
 - Motors and drivers
 - PLC
 - PC's
- Standard PC's for ease of maintenance
 - TCP/IP Protocol for easy networking
- Internal ethernet communication for higher production rates
- Robust design for years of performance

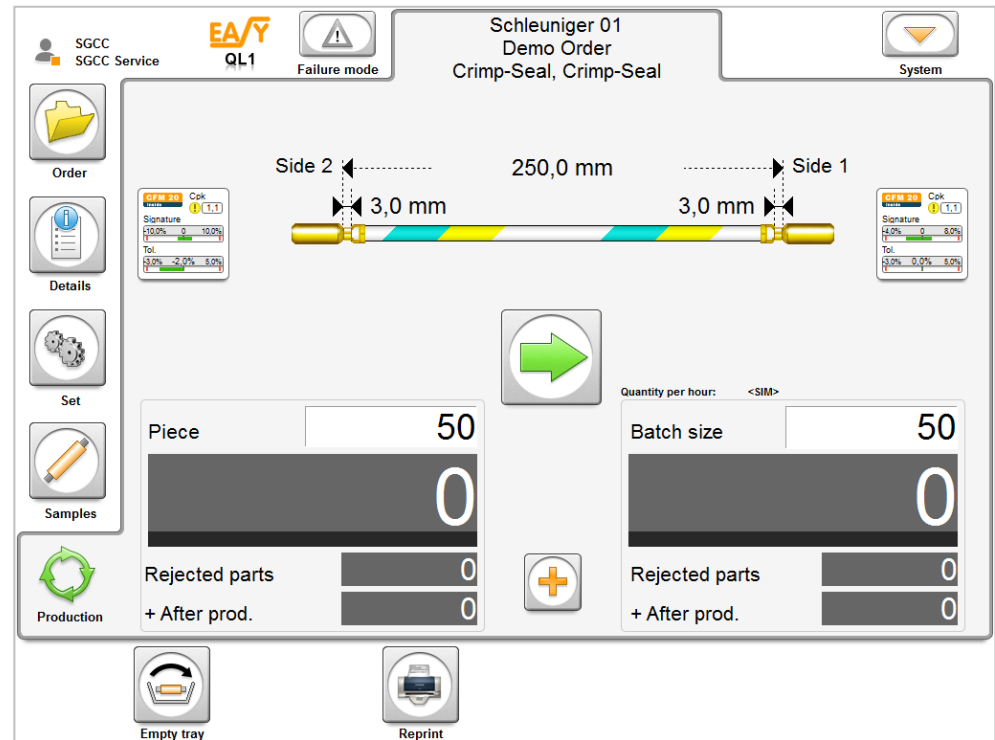


CrimpCenter 36 SP


Highlights – Easy Operation




- Touch screen
- Icon based interface
- Simple to learn
- Integrated technical documents



- EASY ErrorExpert
 - Resolves issues quickly

 ErrorExpert

 **VUI10024**
PVI-Write-Direct variable defect.

Description:


An attempt of communication of the EASY wasn't answered by the PLC correctly.

Reason / Remedy:

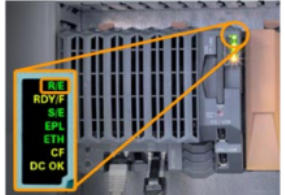
- Please check the EASY-version and PLC-version.
- Please control network connections to the switch, PLC and PC (Picture 2*)
- PLC is set to RUN? (Picture 3*)
- Please control that the PVI-manager is started and works errorless.


* Machines illustrated in this manual may include some optional equipment that is not standard on the machine. Errors and omissions accepted. Technical specifications are subject to change without prior notice.

Picture 2



Picture 3





CrimpCenter 36 SP

Highlights – Quick Change

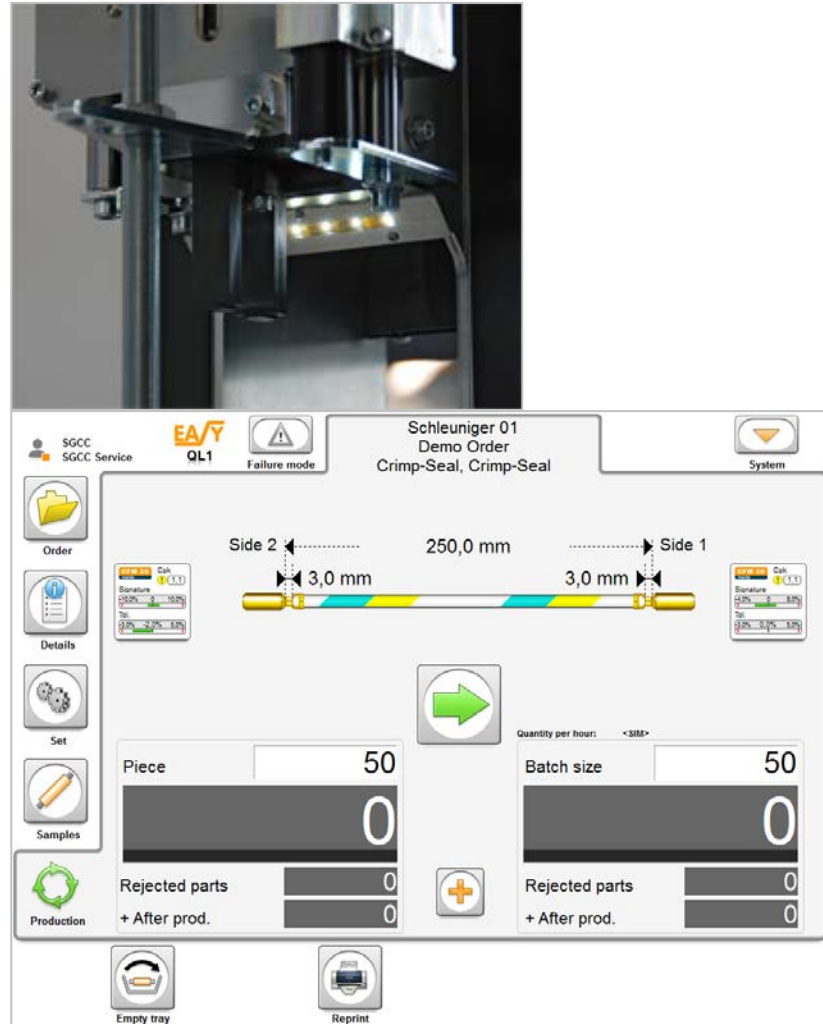
- ToolingShuttle Systems
 - simultaneous exchange of applicators and terminals
- Quick change wire guide and blade change solutions
- Dual wire straightener option
 - prepare next wire in advance



CrimpCenter 36 SP

Highlights – Quick Change

- Integrated work lighting
 - better visibility
- EASY software
 - fast data input or recall



EASY Production Server

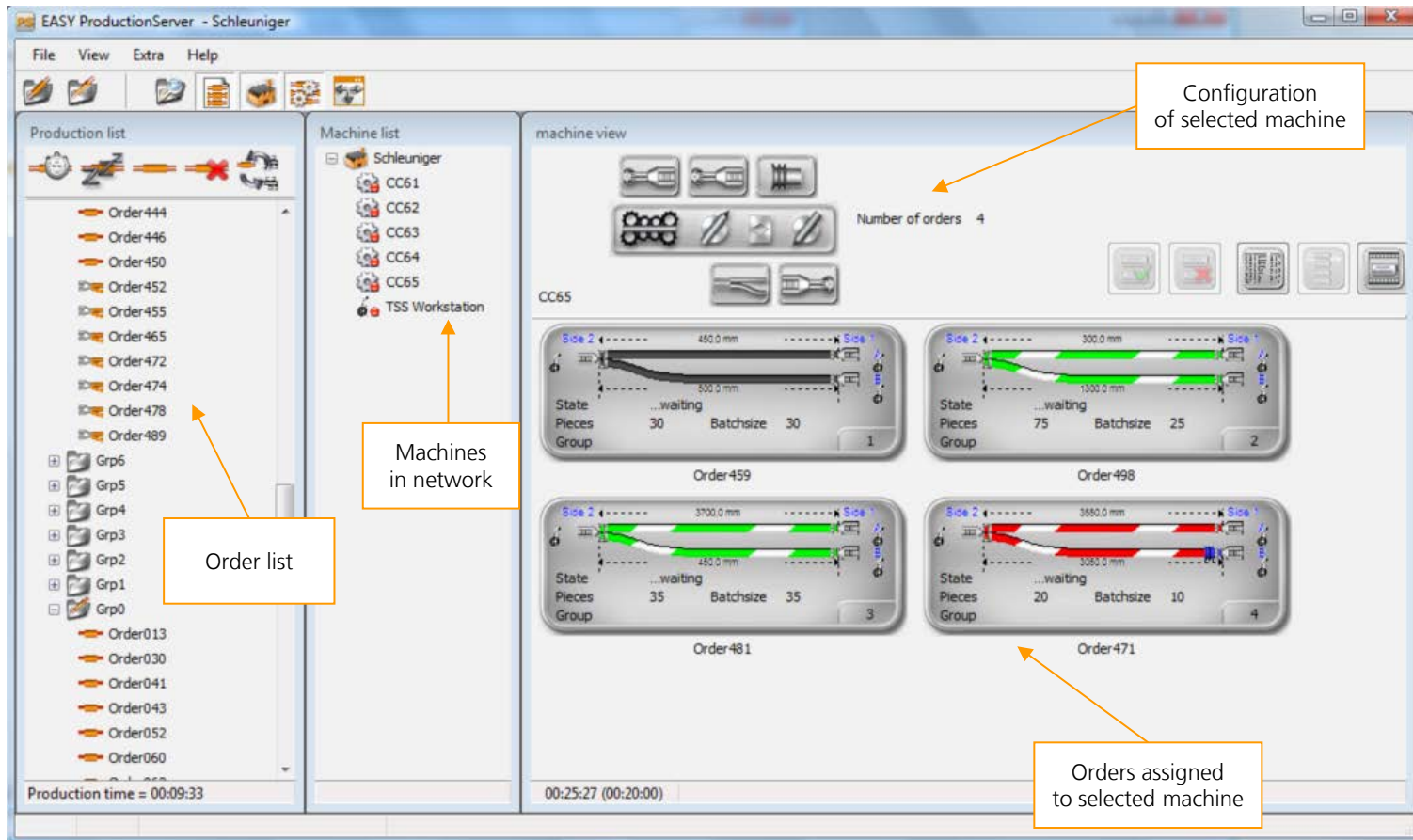
- Production optimization and order management
- Central logging of all production data
- Simple installation in existing networks with standard TCP/IP protocol
- Standardized data import from Excel and EPLAN
- Simple integration of customer-specific solutions with XML



CrimpCenter 36 SP

Highlights – Networking Solutions

EASY Production Server



Configuration of selected machine

Number of orders 4

CC65

Order459

Order498

Order481

Order471

Order list

Machines in network

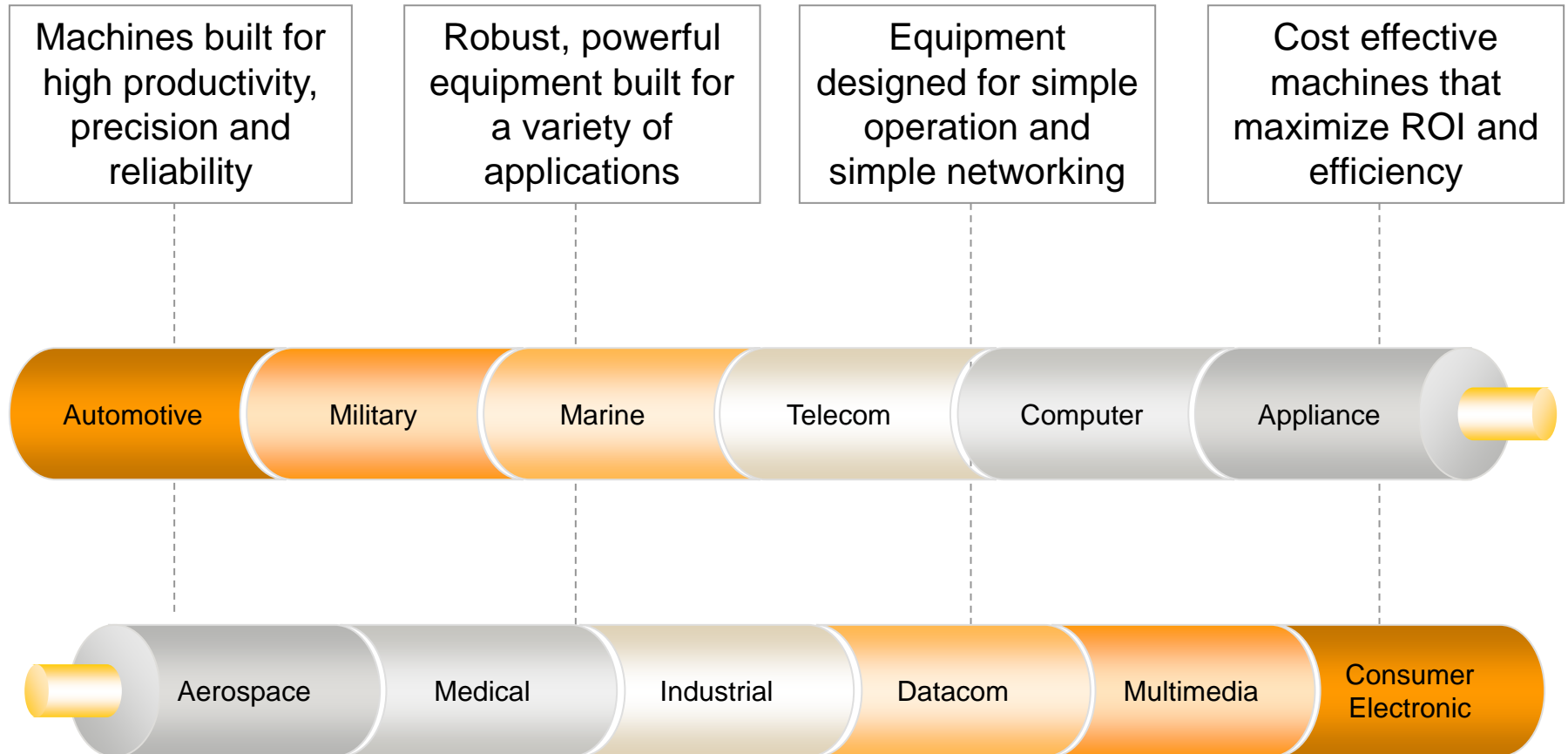
Orders assigned to selected machine

Production time = 00:09:33

00:25:27 (00:20:00)

CrimpCenter 36 SP

Markets Served



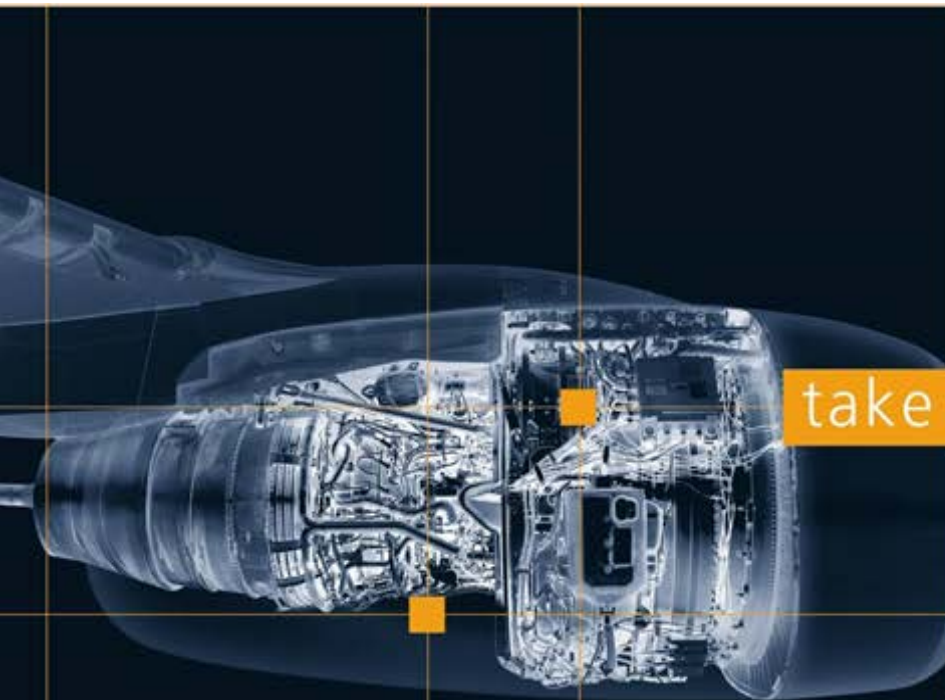
CrimpCenter 36 SP

Technical Data



Processing Stations	6 (max. 3 crimping stations)
Wire Length	55 mm - 65 m (2.16" – 213ft) [optional from 35 (1.38")]
Strip Length	Side 1: 0.1 – 18 mm (0.004 – 0.71") Side 2: 0.1 – 18 mm (0.004 – 0.71") [optional cutter blocks for applications up to „side 1: 31 mm and side 2: 5 mm“ are available]
Conductor Cross Section	0.13 – 6 mm ² (26 AWG – 10 AWG)*
	<i>*Wires with hard insulations or those that are tightly bonded might not be able to be processed even if they are within the application range stated above. For cross sections smaller than 0.22 mm² (24 AWG) and larger than 4 mm² (12 AWG), sample processing is required.</i>
Max. Wire Diameter	4.7 mm (0.18")
Max. Wire Feed Rate	10 m/s (32.8 ft/s)
Dimensions (L × W × H)	3,363 x 1,428 x approx. 2,155 mm (132" x 54" x 85") / 2 m base

- **Increased effective performance** significantly reduces cost per lead
- **Improved quality** by systematic optimization, automating previously manual processes
- **Enhanced wire handling** by improved deposit quality
- **Application flexibility** with up to 6 stations and a variety of accessory interfaces
- **Simple, intuitive user interface** reduces learning curve and set-up times
- **Quick-change mechanisms** minimize set-up time
- **TCP/IP protocol** simplifies networking



take off

