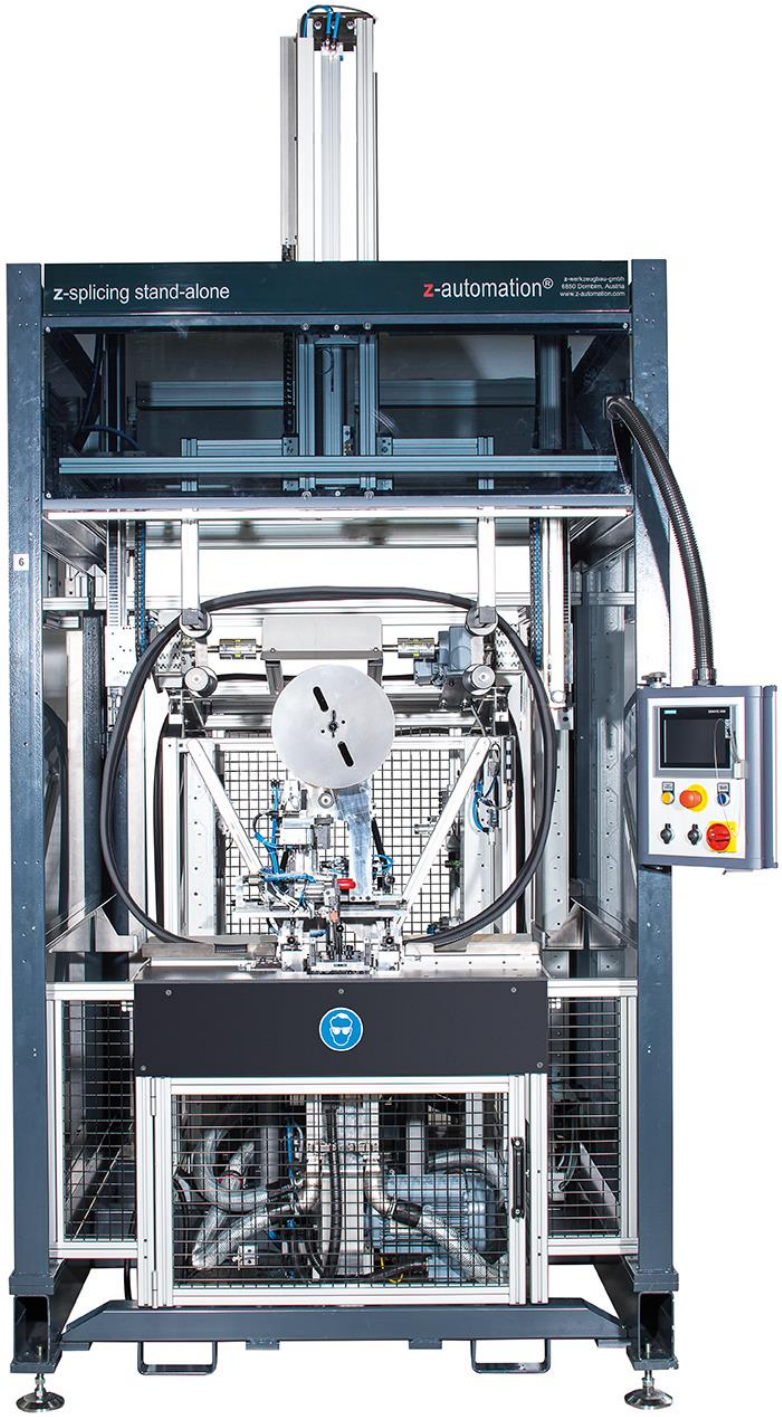
z-automation®

INSPIRING PARTNER

UNIVERSAL SPLICING SYSTEM

z-splicing stand-alone


z-splicing stand-alone
z-automation®

z-splicing stand-alone

Universal splicing system for sealing rings

Fit for profiles with metal carriers
Integrated face-grinding of the profile ends before the actual gluing process. This guarantees independence from the profile structure and the rough cut. Contact surfaces prepared and bonded in one clamping leads to the best splicing result – also with carrier-less cross sections

Splice with highest optical and technical quality
Thin film splicing with strongest, proofed binding strength, splice is permeable to air and water due to integrated hole punching of splicing foil

Process capable PE-splicing
Automatically regulated heating process, stable against external influences like changes of hall temperature or draft. No more manual heating readjustments – even with a cold machine at the beginning of a shift the first profile is good

Durable investment: universal machine – product specific tools
Tool change within a few minutes due to standardized quick change interfaces

Demanding profile cross sections
Product specific clamping elements designed with experience lead to excellent results – e.g. also with Butyl-afflicted profiles

Machine operation
Ergonomic working station, programmable adjustments to the profile lengths for the ideal automatic positioning of the profiles before the operations, optional profile feeding system brings the raw profiles directly into the working station – leading to minimal manual work content, ideally two systems are operated by one employee

Maintenance and service
Well-proven system, installed standard components for global supply, detailed instruction and service manual, maintenance via online remote control

Provision of prototypes as a basis for decision making for new projects
Within three weeks first profile rings are presented with prototype tools on our demonstration machine

z-splicing stand-alone specification

Profile	Cross sections ≤ 50 x 40 mm 2 - 4 splicing cavities Length ≤ ~4600 mm
Technology	- Different profile cross sections settable due to quick tool change interfaces - Manual inserting of 2 – 4 profiles into clamping system towards a stopper, manual removing after gluing process - Machine cycle time (profile clamping and gluing) ~20 s depending on profile type - Grinding module (recommended option) Automatic grinding process at both ends of profile makes plane contact surfaces. Grinding stock between 0,5 and 1,2 mm. Suction mechanism for grinding dust is prepared. Profile specific extension of machine cycle time ~10 s - Gluing technology: Heating of profile and PE-foil with controlled process and connecting by pretension and holding in position. - Foil width 50 – 70 mm - PE-foil optionally perforated (hole punched) in tube areas of the profile's cross section - Manual tearing off foil overlappings - Width x depth x hight = 1510 x 1800 x 3250 mm, with optional profile feeding conveyor system 1510 x 2850 x 3250 mm Weight ~1600 kg
Manufacturer	z-werkzeugbau-gmbh, Hoechster Strasse 8, 6850 Dornbirn, Austria

z-splicing stand-alone optional features

- Grinding module (see „technology”)
- Clockwise / anti-clockwise rotation for grinding module
  Allows programing the grinding direction to each profile condition including automatic switchover of the suction direction
- Suction-aggregate with wet separator
- Alternating suction-mode „1 suction-aggregate for 2 z-splicing systems“
- Profile feeding system
  Transports the profiles from the back of the machine to the working station providing the operator with profiles for insertion. Bringing in profiles manually on backside of the machine. This option saves up to 10 s of the operator’s time
- Integrated and automatic placing of heat tapes.
  These tapes are for easy removal of the tape liner protection film of carrier-less door seals: A snap head cuts the tapes from the roll and applies them on up to 4 profiles in this “heat tabber”
- Remote service via internet online remote control

z-splicing stand-alone profile-related clamping tool parts

- Clamping tool parts
  The clamping situation depends on the profile and is agreed with the customer. If necessary it is determined and optimized with prototype clamping parts. For complex profile cross sections the standard clamping between two clamping parts might not be sufficient – additionally movable or even separately operated clamping parts will be integrated.
- Foil hole punching tools
  If the splice in the tube sections has to be permeable to air and water

z-automation
a business unit of z-werkzeugbau-gmbh
Hoechster Strasse 8 / 6850 Dornbirn / Austria
T +43 5572 7272-720
office@z-automation.com

www.z-werkzeugbau.com
www.z-automation.com

V6-01