

# REIS - CONTACT DETAILS

FOR ALL TASKS - SOLUTIONS FROM ONE SOURCE



## Reis GmbH & Co. KG Maschinenfabrik

Walter-Reis-Str. 1  
D - 63785 Obernburg  
Phone: +49 6022 503-0  
Fax: +49 6022 503-110

## Reis Extrusion GmbH

Buirer Str. 115  
D - 52399 Merzenich  
Phone: +49 2275 9230-0  
Phone: +49 2275 7540

## Reis Robotics USA, Inc

1320 Holmes Road  
US - Elgin, IL 60123  
Phone: +1 847 741 9500  
Fax: +1 847 888 2762

## Reis France E.u.r.l.

44 rue du Pré des Aulnes  
Parc d'Activités des Arpents  
F - 77340 Pontault-Combault  
Phone: +33 160 2822 22  
Fax: +33 160 2835 47

## Reis Robotics Italia S.r.l.

Via del Lavoro 42  
I - 20040 Bellusco (Mi)  
Phone: +39 039 60670 20  
Fax: +39 039 60670 12

## Reis Robotics CR spol.s.r.o.

Cernovice 173  
CZ - 43001 Chomutov  
Phone: +420 474 63 85-11  
Fax: +420 474 63 85-20

## Reis Robotics do Brasil Ltda.

Rua Dr. Ribeiro de Almeida, 286  
BR - 01137-020 Sao Paulo SP  
Phone: +55 11 3392 2154  
Fax: +55 11 3392 3747

## Reis Robotics China Co., Ltd.

1218 Xin Da Road  
Qingpu Industrial Zone  
CN - 201 700 Shanghai  
Phone: +86 21 6921 4566  
Fax: +86 21 6921 4568

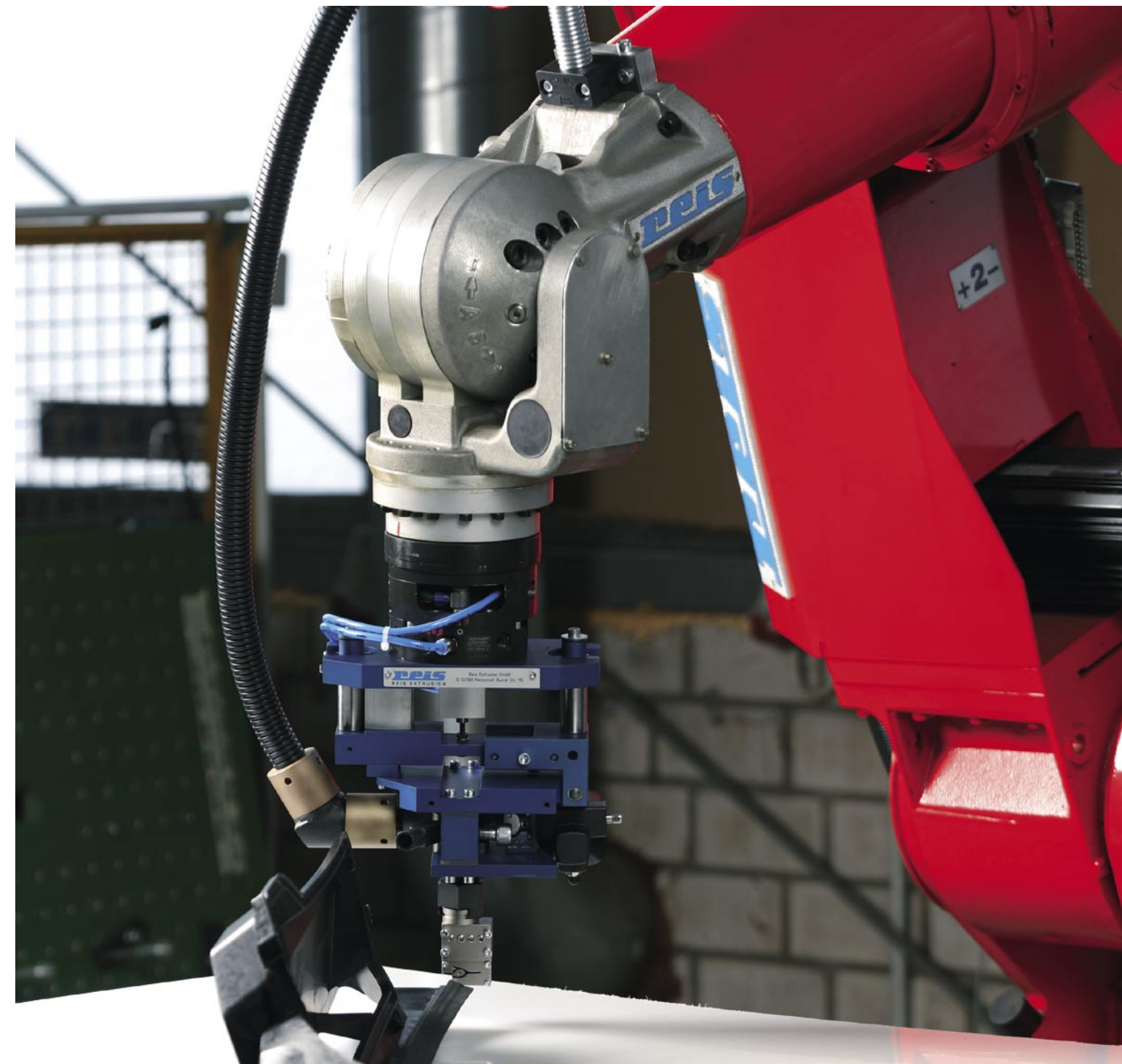
## Reis Robotics Espana S.L

Dr. Manuel Riera, 90  
ES - 08950 Esplugas de LL.  
Phone: +34 934 7372 25  
Fax: +34 934 7372 59

[www.reisrobotics.com](http://www.reisrobotics.com)

Agencies and service all over  
the world.

REX-10-07



## REIS - FLEXIBLE ROBOT EXTRUSION

## 3D ROBOT EXTRUSION OF COMPLEX TPV PROFILES

LEADING IN SYSTEM INTEGRATION

**REIS**  
REIS EXTRUSION

LEADING IN SYSTEM INTEGRATION

**REIS**  
REIS EXTRUSION

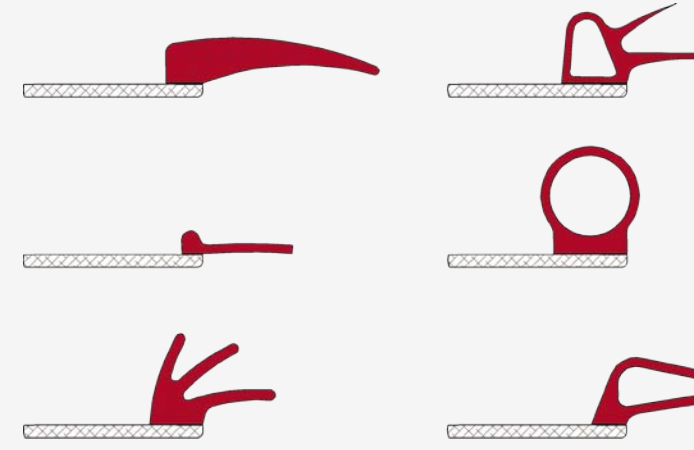


# REIS - SEALING SOLUTIONS - FREELY DESIGNABLE, IN ONE PROCESS STEP, ECOLOGICAL AND RESOURCES-SAVING

## SYSTEM STRUCTURE




- The robot system comprises a Reis articulated arm robot, a dedicated extruder, a heated and pressure robust hose, recirculation components like mill, cyclone, new and regranulate container, dryer and vacuum feed unit. While utilizing the constant speed path planning ability of the Reis robot system the robot will guide the extrusion die along the substrate carrier. 200°C hot Santoprene™ TPV will be formed within 3 mm in the extrusion die to the required profile.
- The robot based extrusion of sealing profiles is performed on suited substrates like PP without any pretreatment guaranteeing excellent adhesion.
- The process allows the extrusion of the sealing profile onto a flat or into a profiled surface of a suitable substrate carrier as well as bordering the edges.

## PROFILE OVERVIEW



- 1 Articulated arm robot
- 2 Extrusion head
- 3 Turntable with two parts and two embossing tools
- 4 Conveyor belt for regranulation process
- 5 Mill
- 6 Blower
- 7 Regra container with cyclone
- 8 New material container
- 9 Suction tubes with mixing guide
- 10 Dryer with vacuum feed unit
- 11 Screw extruder with vacuum feed unit, metal separator and ionization

## CO-OPERATION PARTNER

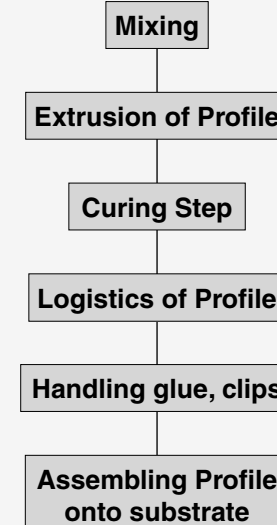
- System integration 
- Technology 
- Material competence 

## ADVANTAGES OF TPV ROBOTIC EXTRUSION

- Significant reduction of labor cost in comparison to alternative TSR (EPDM) profile system assembling using adhesives or mechanical fixation systems
- No curing step needed, the part can be handled almost directly after processing
- High freedom in design of profile geometry (accurate with thin walls possible)
- Profile extrusion in solid or multi-cavity configuration can be extruded in X-Y-Z direction with Santoprene™ TPV to a variety of substrates
- No waste of Santoprene™ TPV
- Excellent dimension stability, compression set and surface quality
- Recyclable as one product family – PP substrate and TPV profile
- Tailored product line: Santoprene™ TPV E500 series

## TSR STEPS

### Traditional Thermoset Rubber Process (TSR)



## VERSUS

## TPV ROBOTIC EXTRUSION

### New Thermoplastic Process (TPV)

