

Hill GmbH
Location: Zum Obsthof 13, 75177 Pforzheim

Founded: May 2000

Current members of staff: 21

Implemented pretreatment solutions August 2024:
2.709 flame treatment systems including burners
worldwide

Fields of activity: Development, design, production
and sale of flame treatment systems and burners for
pretreatment of plastic surfaces, glass surfaces or
metal surfaces

Consultation on application of technology

Installation, commissioning and service



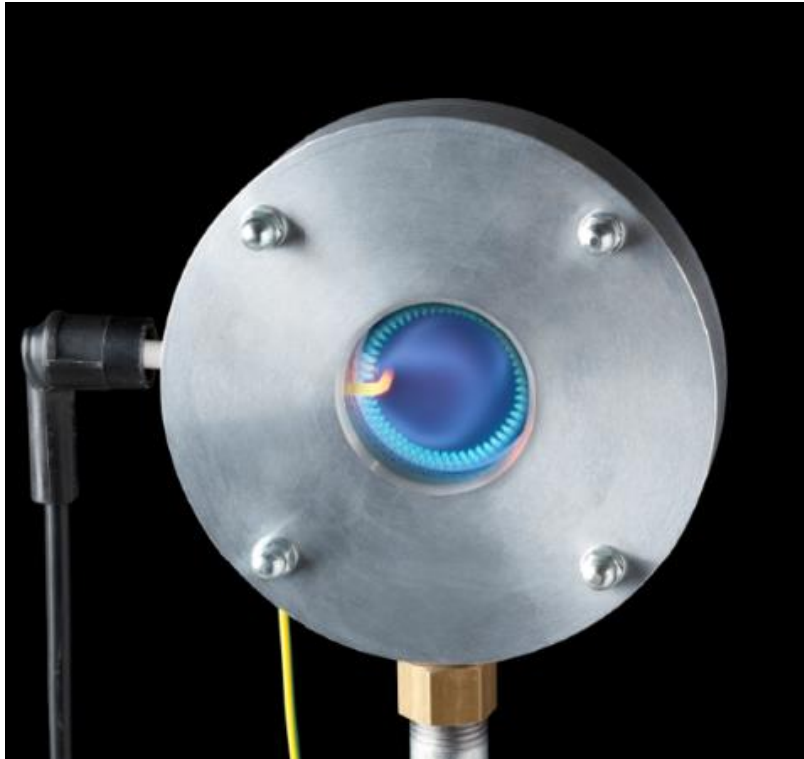
Fields of activity

- **Automotive :**
 - Flame pretreatment of interior and exterior components - e.g. bumper pretreatment prior paint application, flame pretreatment of automotive instrument panels prior foaming or laminating process
 - Flame pretreatment solutions for bonding applications , - pretreatment of surfaces prior to glue application or application of adhesive tapes –e.g. rocker panels, wheel arch liners, bumper bars, PDC-carriers
- **Packaging industry**
 - Pretreatment solutions for bottle caps prior print application, pretreatment solutions for decorations of beverage or cosmetic containers . Pad printing, silk screen printing and digital printing
 - Pretreatment solutions for paper and card board prior extrusion coating at substrate speed of up to 1.000m/min
 - Pretreatment solutions for metallic sheet goods in coil to coil paint application
 - Pretreatment solutions for aluminium-sheet goods prior to paint or adhesive application for food packaging
- **Pharmaceutical industry:**
 - Pretreatment solutions for medical packaging , primarily films and moulded plastic containers

Burner examples for flaming processes



Pencil shape burner
For pretreatment of bonding surfaces and grooves at high velocity of 0,8m/sec
Also used for deflashing / deburring applications on polycarbonate f.e. headlight glass



Ring burner for the pretreatment of extruded tubing after the extrusion process .
Surface and structural modification of rubber material to enhance abrasion and pressure resistance



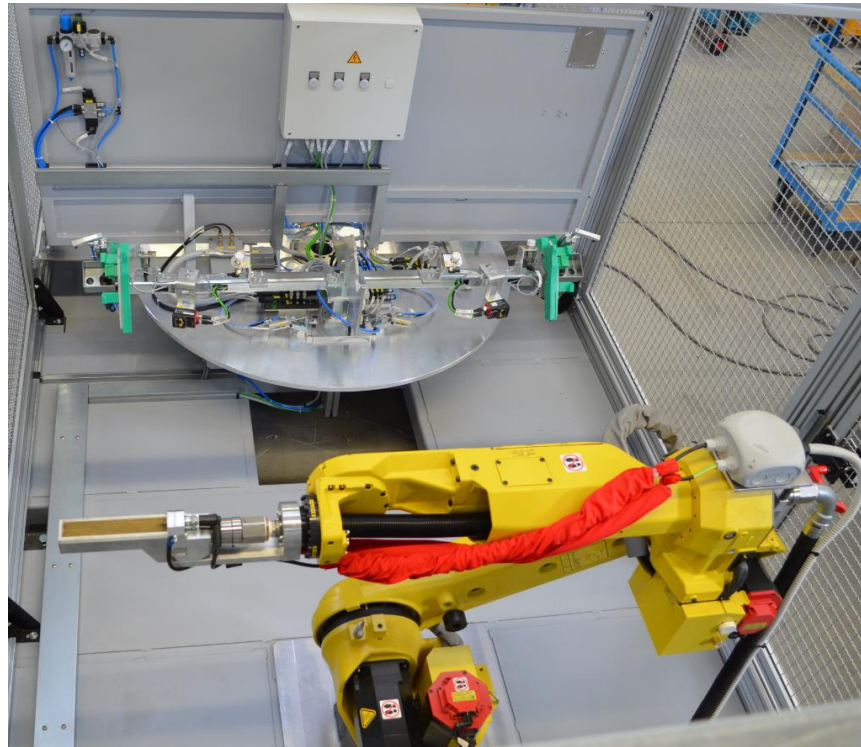
High output burner for the pretreatment of larger three dimensional parts at high Velocity of up to 1,5m/sec f.e. bumpers or automotive instrument panels

Exemplary application

Bumper pretreatment prior to paint application

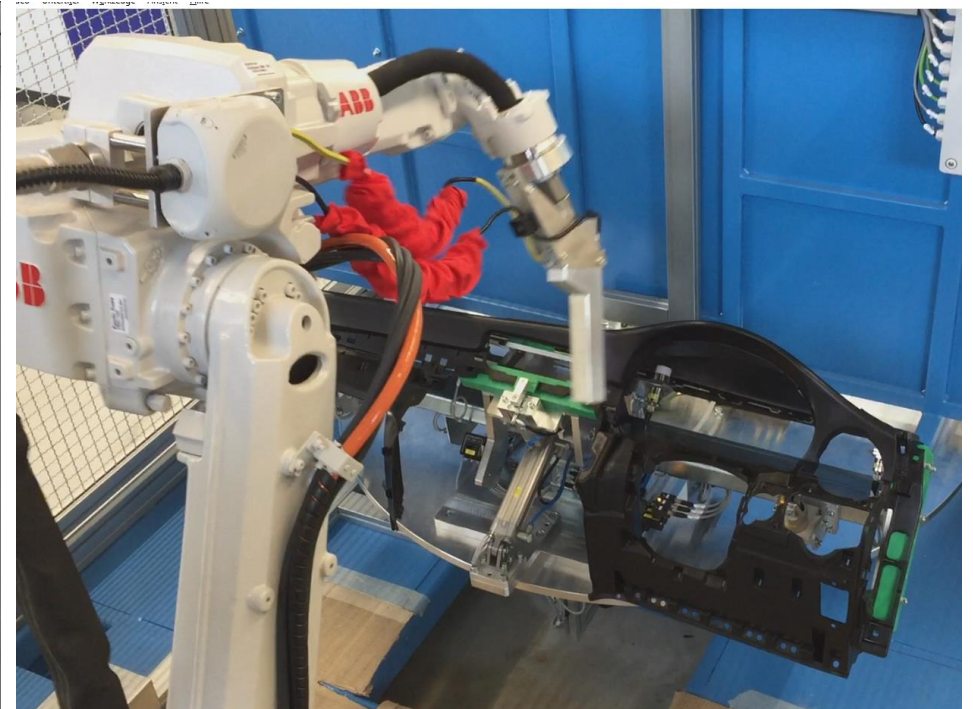
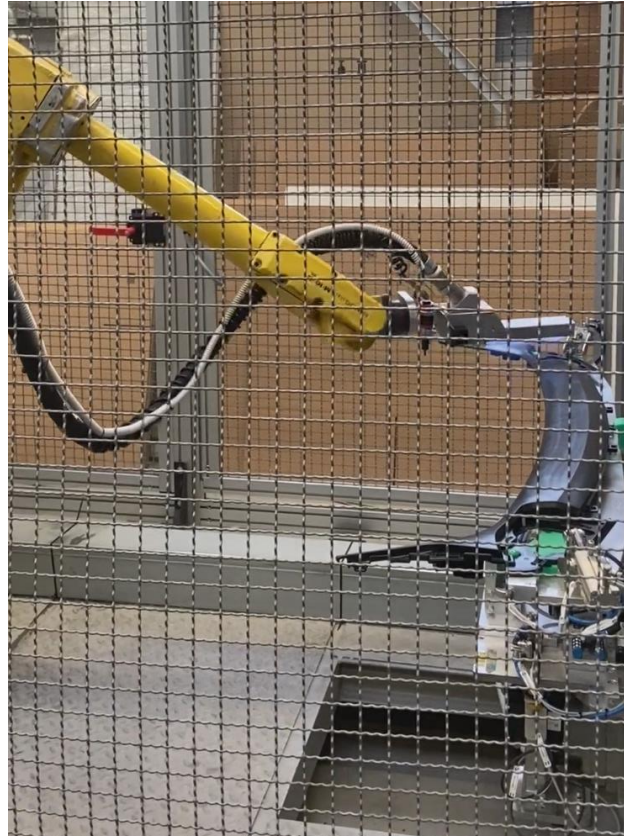
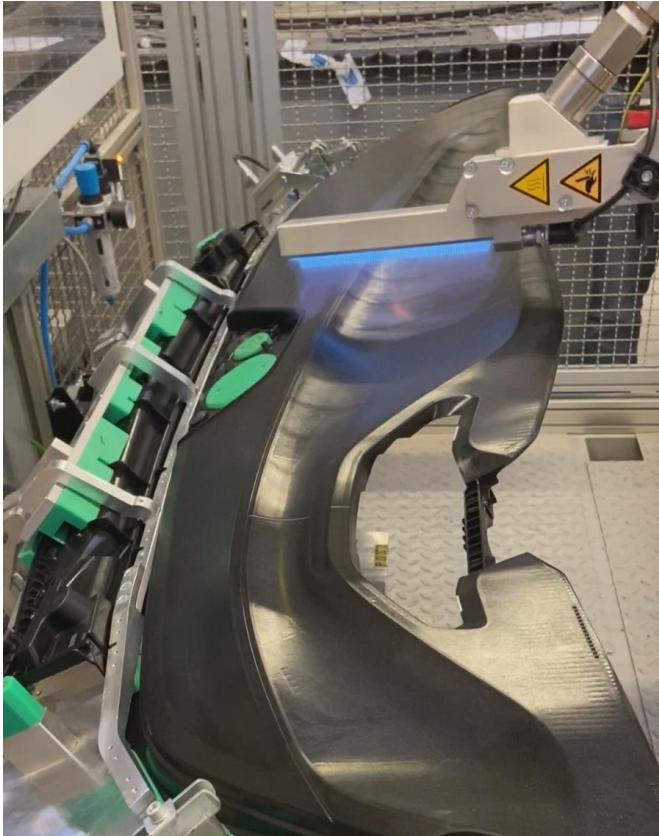


Flame pretreatment of automotive instrument panels prior foaming or laminating process .
In-house design of all mechanical components as well as in-house software development for sequence controls based on the Siemens TIA platform.



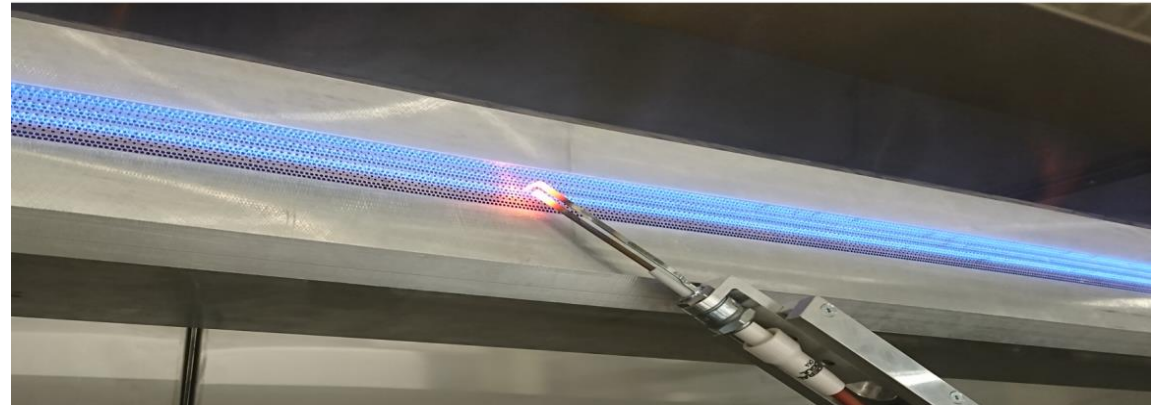
Exemplary application

Flame pretreatment of automotive instrument panels prior foaming or laminating process



Exemplary application

Flame pretreatment of card board and paper at 800m/min at a working width of 3.700mm



Exemplary application

Pretreatment station with roller frame for the integration into an existing glue application process



Pretreatment station for double sided pretreatment of edge banding after extrusion process



Flame pretreatment station for the integration into an extrusion coating line

