



IR, UV and Solutions for The Automotive Industry



Infrared Uses Within The Automotive Industry

PAINT DRYING

IR Heaters are used to cure paint on automotive bodies and parts. The IR quickly heats the surface and reduced the time for each vehicle in the paint shop



PLASTIC WELDING

IR Heating provides precise and localised heating which melts and fuses plastics together for various components including bumpers, trim and under the hood parts

PLUS MANY MORE...

Including Alloy Wheel Manufacturing, Seam Sealing, Metal Forming, Glass Bonding, HVAC System Testing and Heating Elements in seats, steering wheels and mirrors



UV Uses Within The Automotive Industry

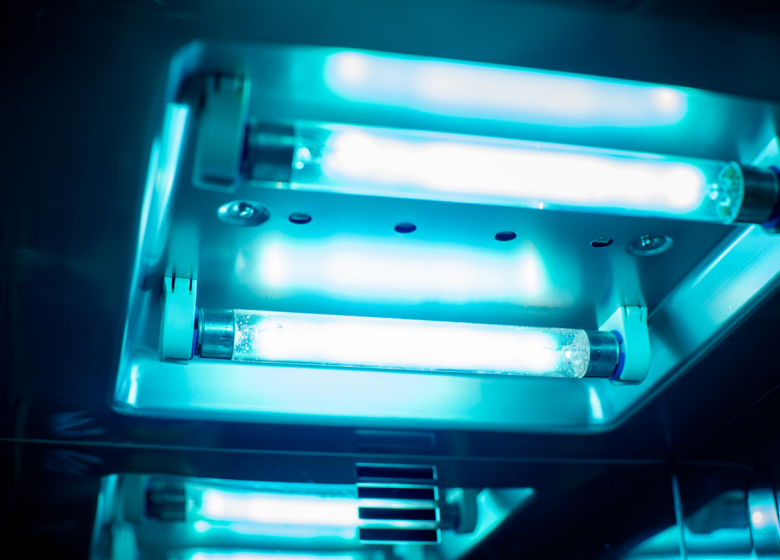
PAINT CURING

UV lamps can cure UV-Curable paints, clear coats and other coatings applied to automotive bodies & parts



UVC STERILISATION

UV-C light kills bacteria, microorganisms and fungi. It is a chemical free alternative to facility & car disinfection



PLUS MANY MORE...

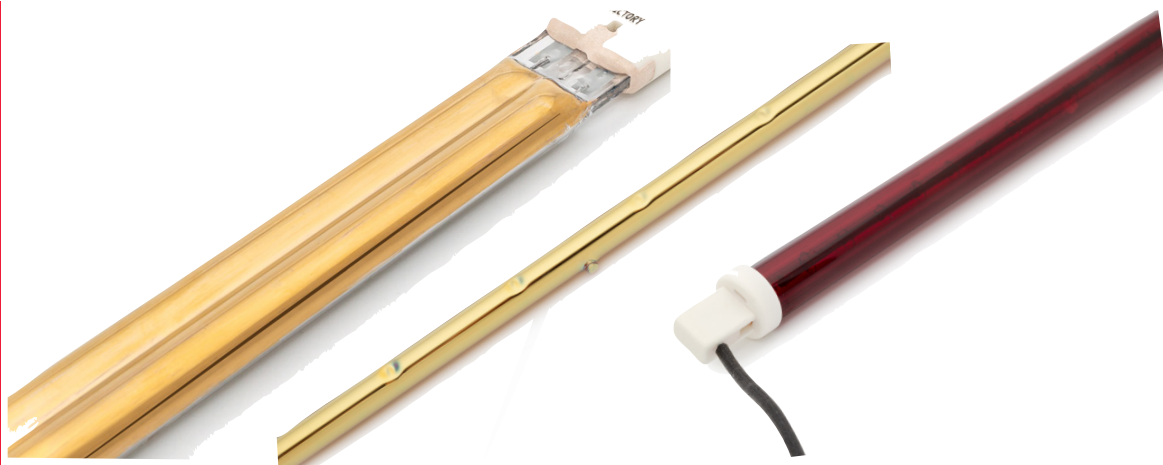
Including Adhesive Bonding, Headlamp Curing, Fleet Disinfection, Inspection & Quality Control



See all of the products we offer

We have a full range of IR, UV and Fittings for your Automotive needs to enhance production and efficiency.

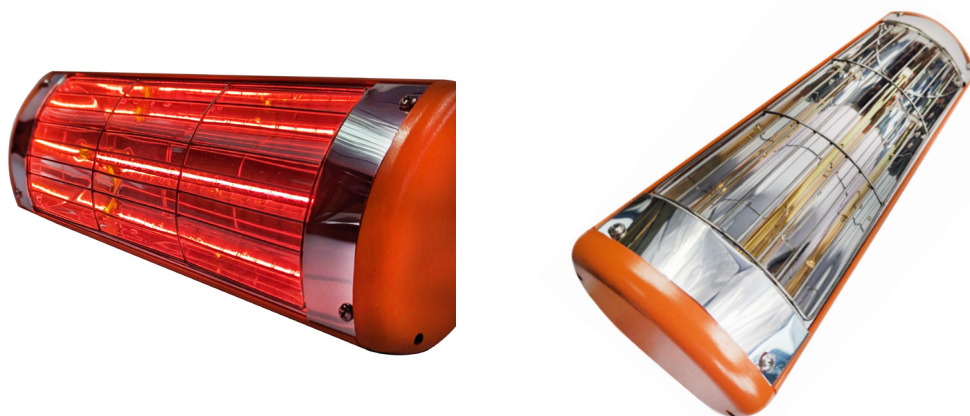
INFRARED LAMPS



ULTRAVIOLET LAMPS & UV- LED



FITTINGS



Out Of The Box Solutions

We also manufacture a number of ready made drying & curing systems.



Our range of Infrared Paint Dryers that come with:

- A range of sizes
- Various Wavelengths for optimum performance
- Free standing or handheld options

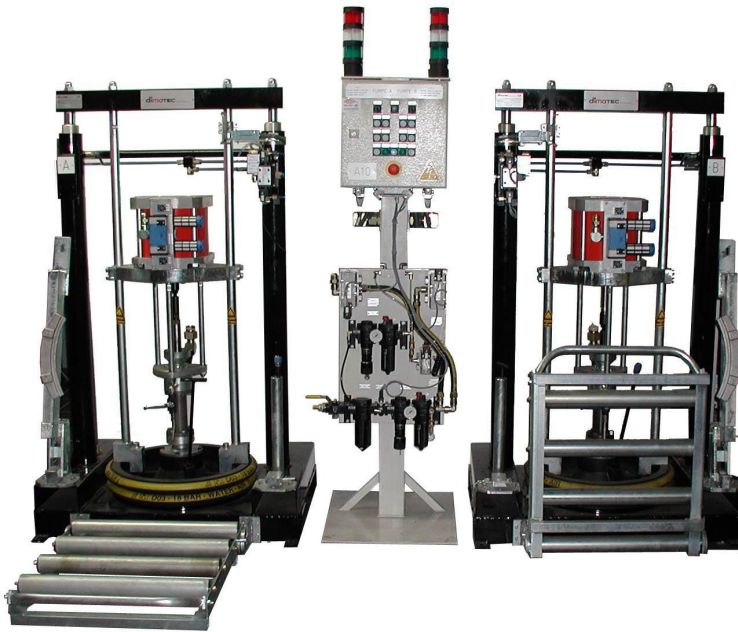
For The Ultimate Energy Efficiency, try our UV-LED Paint Drying Unit

- Uses 20 UV LEDs
- Has low power consumption and long lamp life

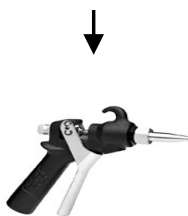


Bonding & Primers

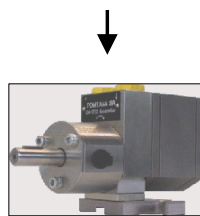
Product Scope



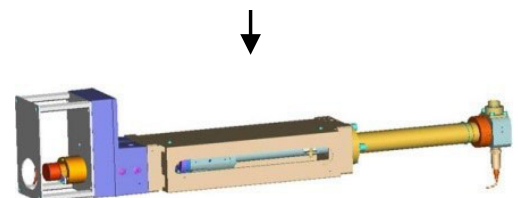
Scope of Delivery:
Barrel station,
Hoses, Dosers



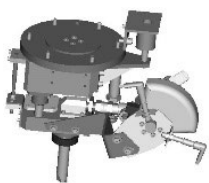
Manual Application



Gear pump



Electric doser



Application head

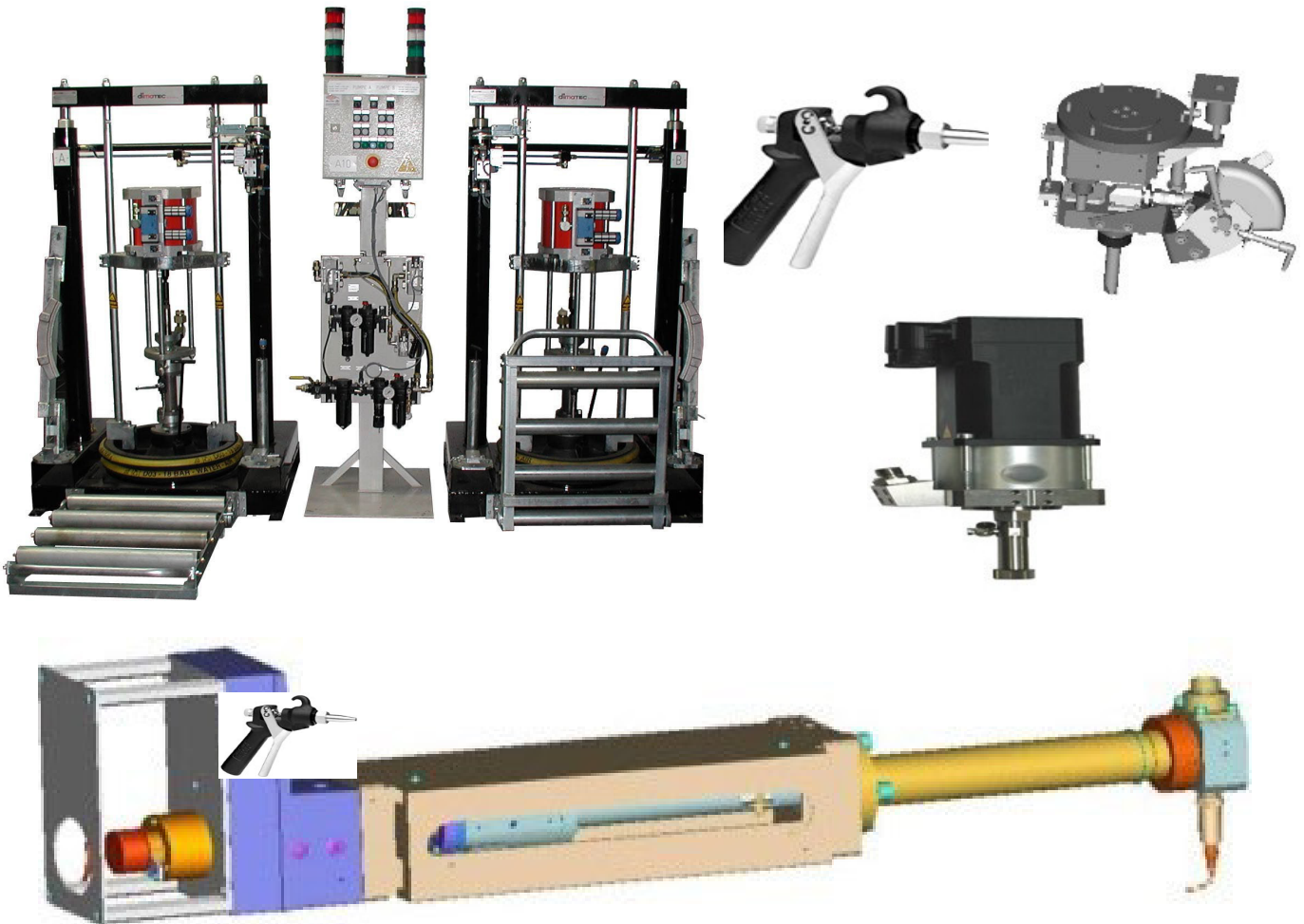


Electric dispensing



Pneumatic dispensing

Scope of Delivery for Integrators



Application system:

- Barrel station (single or double / heated or cold) incl. Pneumatics
- Hoses (heated or cold)
- 1K-Dosers or 2K-Doser for automatic dosing or manual piston for manual application
- Application tower with 7th axis application head (7th axis motor is customer supply) if robot is handling the part for gluing
- Application head for robot, if robot is applying the glue
- All motors and sensors mechanically installed

Optionally:

- Electrical wiring including junction box – PLC cabinet and doser drives are customer scope
- Electrical wiring, junction box and application PLC – Main PLC incl. safety are customer scope

Bonding Systems/Pumps & Dosers

Depending on the system pumps or different dosage types are used

Pumps

Barrel size	Pump types	Drive type	Temperature range
20 - 30 Liter	Priming piston pumps from 27 to 270 ccm	pneumatical	Ambient temperatur
50 Liter	Ball valve piston pumps from 20 to 400 ccm	elektrical	< 100° C
200 Liter	Gear pumps from 0,3 to 50 cc/U	hydraulic	> 100°C to 200°C

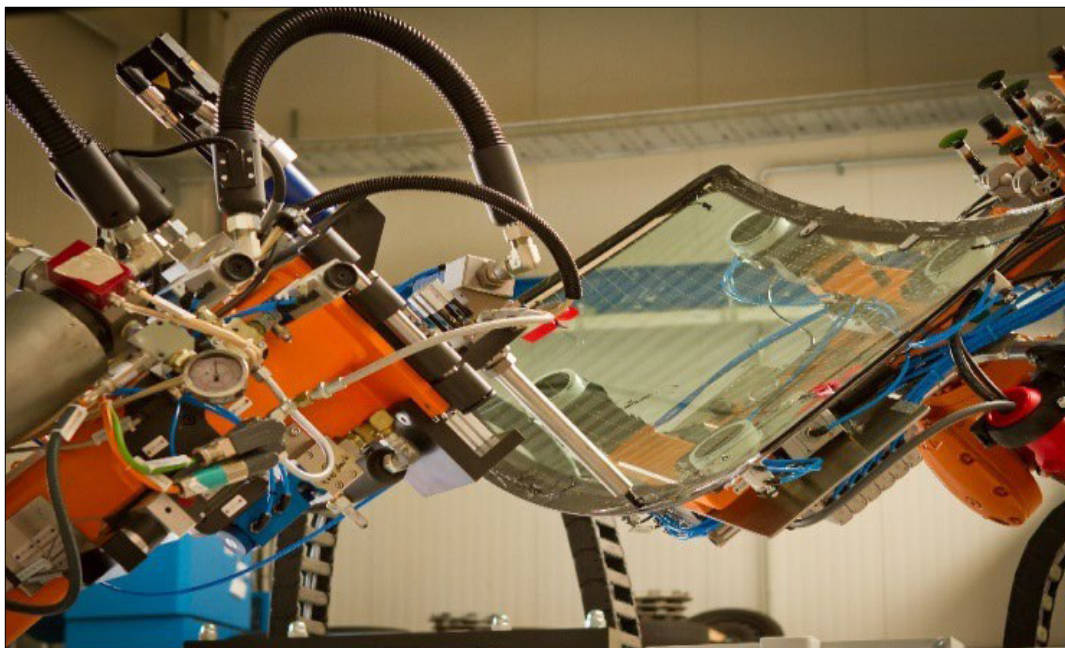
Doser

Doser types	Drive type	Temperature range
Piston doser from 10 to 1.000 ccm	elektrical	< 100° C
Gear pump	elektrical	> 100°C to 200°C

Bonding Systems/Application Heads

Types of Application Heads for manual or automatic application

Type of application	Type of drive	Temperature range	Options
Bead	pneumatical	Ambient temperatur	Material pressure regulator
Airless	elektrical	< 100° C	Hoses
Felt application		> 100° until 200° C	Swivels
			Swivel boom
			Balancer



200L Drum Pump

▮ Pressure ratio	90:1 / 55:1 / 38:1
▮ Air motor stroke	123 mm
▮ Flow rate (per double stroke)	0.2 l
▮ Max. Pressure (material)	500 bar
▮ Delivery rate approx.	2 l/min
▮ Compressed air	5-6 bar
▮ Maintenance unit	½"
▮ Weight	approx.300 kg
▮ Dimensions (RAM extended)	2,54 x 0,64 x 1,07 (m)
▮ Dimensions (RAM retracted)	1.54 x 0.64 x 1.07 (m)



consisting of

- 2 columns elevator
- follower plate
- lower pump
- air motor
- maintenance unit
- drum holder
- roller conveyor

22L Drum Pump

- | | |
|--------------------------------|---------------------------|
| ▣ Usable containers | ∅ 280 mm to ∅ 315 mm max. |
| ▣ Viscosity range | 1000 to 4 million mPa-s |
| ▣ Permissible working pressure | max. 450 bar |
| ▣ Air inlet DN (internal) 1/4" | |
| ▣ Compressed air | 2 to 6 bar |
| ▣ Delivery rate double stroke | 27 cc |
| ▣ Maximum flow rate | 0.3l/min. |

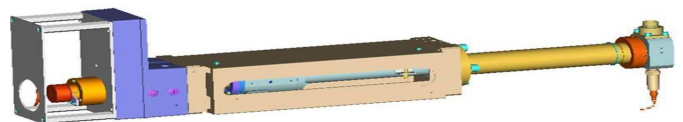


consisting of

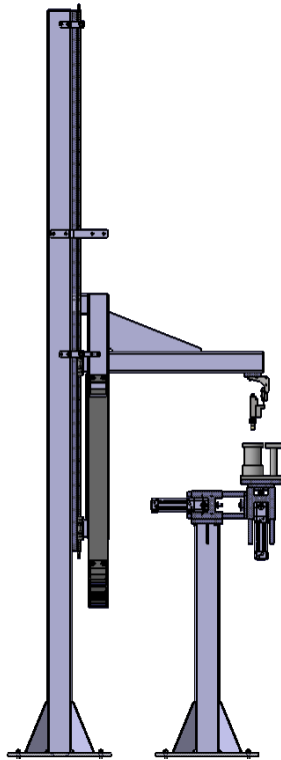
- 2 columns elevator
- follower plate
- lower pump
- air motor
- maintenance unit

Doser 550cc, 50cc, 10cc

▮ Flow rate per stroke	max. 550 cm ³
▮ Permissible pressure at the outlet of the dosage	250 bar
▮ Flow rate	max. 1.472 ccm/min
▮ Spindle pitch	10 mm/ rotation
▮ Pressure probe	10 V DC max. 400 bar
▮ Control range: infinitely variable	0 - 10 V DC
▮ Signal level of limit switches and control signals	24 VDC
▮ incremental encoder	100 i/U 24 VDC
▮ Drive Servomotor Power consumption approx.	2 kW A
▮ Weight	approx. 115 kg
▮ Factor cc/ Spindle rotation	19,6349 cc/ Spindle rotation
▮ Factor cc/ motor rotation	0'6135 cc/ motor rotation



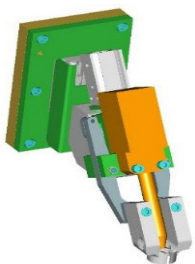
Primer Systems - Stationary



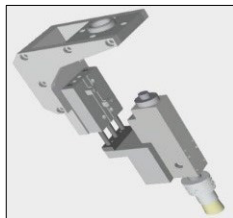
Application head at movable station



Cabinet for cleaner / primer tank



Application head on robot and stationary



Docking station for cleaner / primer



Primer Brushes

Contact us today

And learn more about our IR, UV, Fittings and other Solutions

info@dimatec.co.uk

