



IRT
SYSTEM

HEDSON



***PAIN*T LINES**
IRT-BOOSTER

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— PERFORMANCE ABOVE ALL —



***EQUIP
TO WIN***



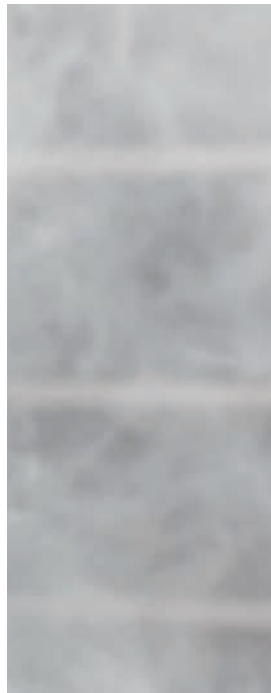
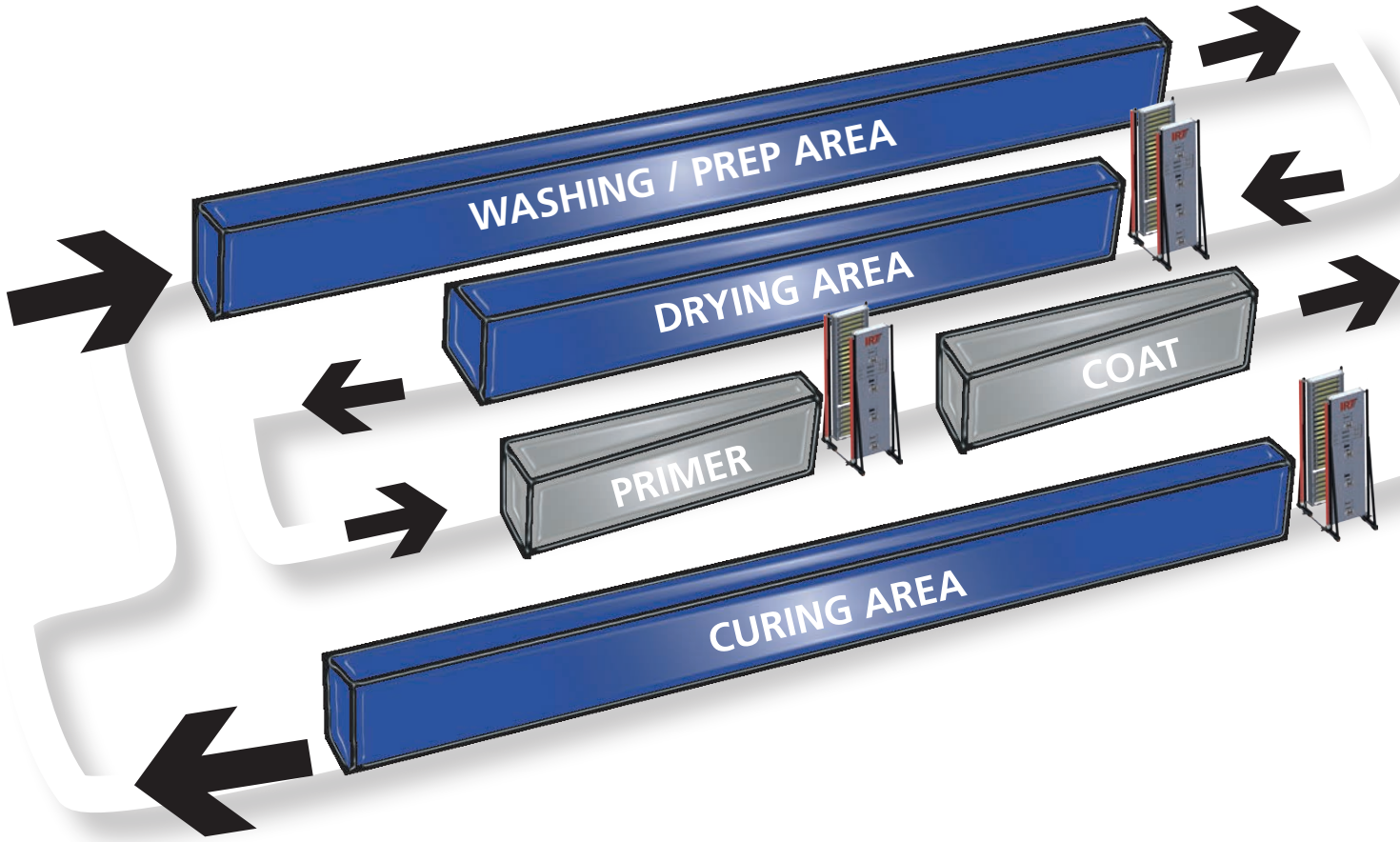
***PAIN*T LINES IRT-BOOSTER**

Boost or cure

The IRT-Booster increases goods temperature to improve process effectivity. Shortwave IR needs less space than many other IR techniques or gas ovens. An infrared IRT-Booster can be placed before convection- and drying ovens in all types of conveyor wet/dry paint processes.

IRT
SYSTEM

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PROFIT FROM IR-BOOSTING

The IRT-Booster investment pays back within 6-12 months. The IRT-Booster can add 400-500 productive hours/year by increasing the production rate (up to 20%) or by eliminating production slow-downs, stops and quality issues (calculated on example with 2-shift production with appr 4 stops/shift, each 15 min).

BOOST OR CURE

The IRT-Booster increases goods temperature to improve process effectivity. Oven length < 1 m. In some cases the IRT-Booster can be configured to completely cure the paint, from inside and out, taking appr 1 minute up to 180°C, plus holding time appr 3 minutes (powder).

RELIABILITY AND PROCESS SAFETY

No waste of energy or overheating of parts. Ventilated cassettes and no hot parts. More than 20,000 operating hours per lamp.



PROFIT FROM IR-BOOSTING

INCREASE PRODUCTION RATE

- Effective heating turns up your production rate
- No heating stops
- No need to slow down for extraordinary goods
- You can even add a primer unit, IRT needs less than two metres for the powder to gel

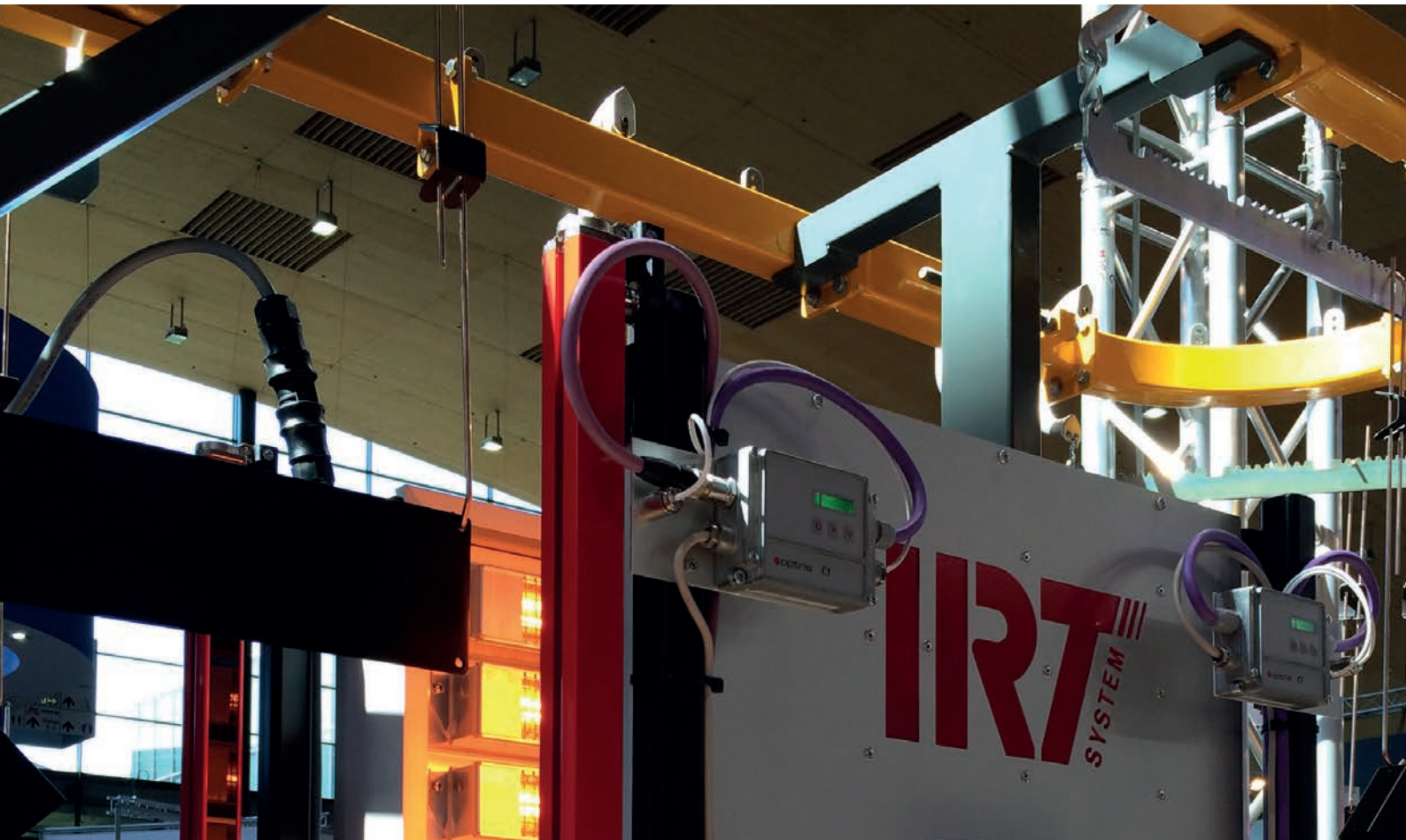
REDUCE ENERGY CONSUMPTION

- No need for additional manpower or increasing water oven temperature after washing
- Fully activated on request in 0.8 s.
- Shuts down instantly when not in use

INCREASE QUALITY

- Dry after washing
- Melts the powder before entering the hot air oven, no contamination inside
- Heats from inside and out





IMPROVED QUALITY

Solve quality issues with an IRT-Booster

An infrared booster requires very little space and can be added to an existing layout without much intervention. IRT-Boosters are a flexible and effective solution that can be combined with most traditional curing methods. Curing from the inside and out for high quality reliable results.

- Integrated ventilation system protects electronics and lamps
- The modules give full output in seconds, programme to any type of thermal cycle
- The control unit is prepared for additional options such as temperature measurement, laser and digital sensors, communication link between conveyor and IRT-Booster software
- 98% energy reflection with IRT 24K gold coated reflectors that concentrate shortwave IR to the correct place



UNBELIEVABLY SIMPLE AND EFFECTIVE

- Startup: Place the IRT-Booster by the oven entrance and start the conveyor and IRT-Booster
- Trial runs: Use a pyrometer to monitor the temperature of incoming and outgoing goods
- Set effect: Adjust software to required effect (15 preset programmes available)
- Activate zones: Preset software to use a suitable number of zones for each batch (based on goods size)
- Options: Laser/digital sensors, communication link conveyor/IRT-Booster



INCREASE PRODUCTION RATE AND REDUCE ENERGY CONSUMPTION

The IRT-Booster melts the powder before entry into the hot air oven, avoiding contamination of powders inside. IRT technique leads to both increased production rate and reduced energy consumption. Therefore, an infrared booster is advantageously placed before convection- and drying ovens in all types of conveyor processes, wet and dry.

- An IRT-Booster does not take up much space
- The modular units can easily retrofit onto existing ovens
- Maintain control of curing and production flow in powder coating lines
- No pre-heating of emitters necessary, instant startup

ENERGY SAVINGS WITH CONTROLLED DRYING

A convection oven sometimes lacks in efficiency; IRT's shortwave infratechnique can boost and even replace traditional drying. Reduce energy consumption, production time and increase speed with instant start-up and shut-off.



"By investing in the IRT-Booster we could immediately turn up production rate almost 20%."



"IRT set us up with testing equipment which worked so well that we tripled our production rate and refused to return the system until it was replaced with our present equipment."



"We chose a complete IRT-System with multiple lines to create a flexible curing process. It was a non-negotiable requirement to be able to control curing and production flow."



IRT-BOOSTER CODING SYSTEM

1) 2) 3) 4) 5)
20 S L 3 A1

1) Amount of lamps per cassette 11-32

Customer goods max height*. See table below.

2) Lamp length S/L/X

S: Short lamps (360 mm)

L: Long lamps (1124 mm)

X: IRT calculation

3) Zone start sensors C/L/O

C: Light curtains, activates the necessary amount of zones

L: Single point laser sensor, manually set to one point

O: Manual start/stop, no zone sensor

4) Power per lamp, 3 or 4 kW

3: 3 kW lamps 4: 4 kW lamps

IRT calculations, with IRT effect software, based on goods weight, material coating and size variation.

5) Installation A1/A2/B1/B2/M

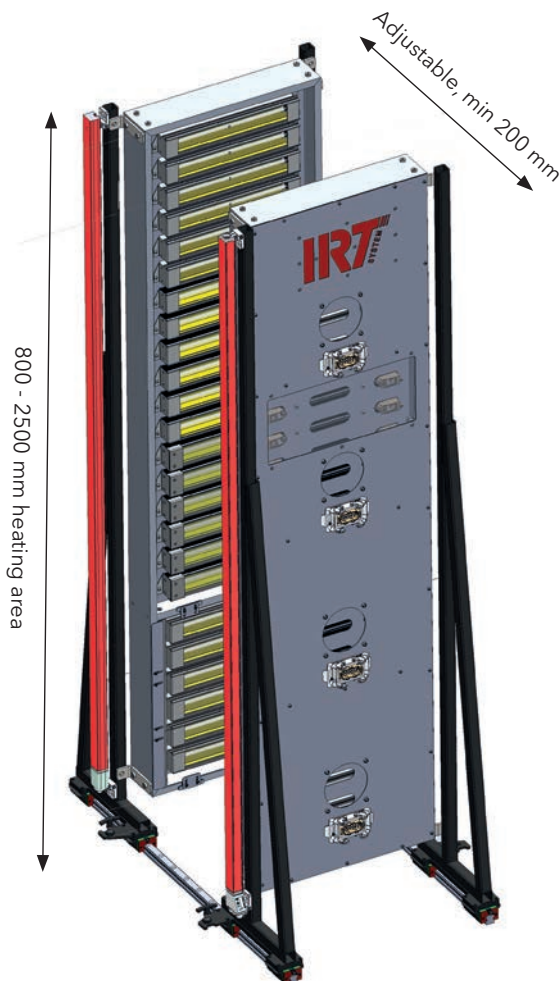
A1: Adjustable stand

A2: Stand, automatized adjustment

B1: Mobile adjustable stand

B2: Mobile stand, automatized adjustment

M: Bolted/fixed



Customer goods max height (mm)*	Amount of lamps per cassette	Customer goods max height (mm)*	Amount of lamps per cassette
800	11	1680	22
880	12	1760	23
960	13	1840	24
1040	14	1920	25
1120	15	2000	26
1200	16	2080	27
1280	17	2160	28
1360	18	2240	29
1440	19	2320	30
1520	20	2400	31
1600	21	2480	32

PERFORMANCE ABOVE ALL

Hedson is a leading supplier of premium curing, lifting and cleaning systems for auto workshops and industry worldwide. We come from the land of engineering, and have decades of experience learning from and innovating to real customer needs – technologies that improve the working environment, protect workers and boost productivity. Our ambition to add real measurable values is obvious wherever Hedson solutions are seen, sold or working – from advanced yet easy to use equipment to unmatched customer service, Hedson stands for performance above all.

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