

Alongside its successful range of catalytic gas infra-red drying systems, Schubox and Kit-Cat, spray booths and automatic application machines, Schuberts can now offer its new Schuburst electric IR system to fully cure water-based paints and lacquers in as little as 10 seconds for each process.

## Full cure in 10 seconds

This means either much faster line speeds or much smaller footprint tunnels. Typically a mouldings line running at 25m/min the Schuburst preheat straight line tunnel is just 3.0m long. On a 1300mm wide spray line retrofit, running at 5m/min the Schuburst pre-heat and post heat tunnels are just 1.0m long, with the addition of a short cooling section after the post heat.



*Schuburst pre-heat and post-heat curing on a dedicated Schubert 1300mm wide auto-spray line*

Lines are now in operation curing both clear and pigmented lacquers on panels and profiled mouldings as well as other substrates such as glass. Schuburst is unique in the wood finishing world and has been developed together with Sayerlack Sherwin Williams.

The process is a combination of a very precise pre-heating of the substrate surface and post heating of the coated surface. The infra-red is burst-fired at very high speed and matches the specific absorption rate of the surface necessary for the surface to absorb heat for curing. This can be varied from 10%

to 100% power output and the electricity charge is typically on 50% that of conventional electric IR.

Another first from Schuberts is the ATE Simple Paint compressed air cleaning and de-ionising device for retro-fit on both manual spray systems and robotic automatic spray application lines. The compressed air feeding either of the above spray methods is purified and deionised. This means lower pressure can be used (lower cost), less bounce back of paint, better quality finish and reduced over-spray meaning 20% lower material usage.

The quality of finish is markedly improved with elimination of the faraday effect in corners. There are over 800 units working in Italy where Simple Paint is manufactured. Schuberts has an exclusive agreement with ATE for the UK, Eire and Australia.

Schuberts will be carrying out simple demonstrations on stand 7F662 at W10 to illustrate the technology.

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*Schuburst pre-heat tunnel between sander and spray machine running at 20m/min*



*ATE Simple Paint*



*ATE Simple Paint*