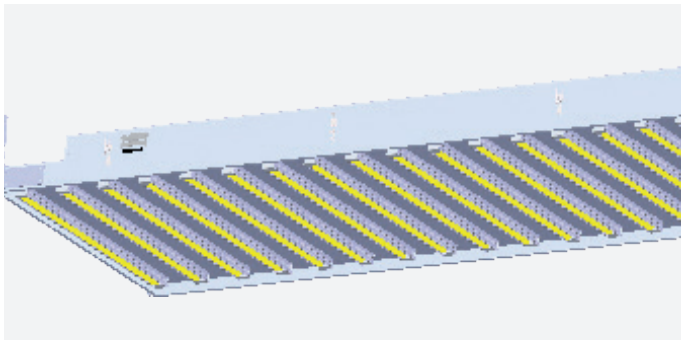


# IR CURING, WOOD INDUSTRY



## IRT HEDSON INDUSTRIAL SOLUTIONS

We develop, manufacture and supply custombuilt IRT drying and curing solutions to all industrial sectors.

IRT is a trademark belonging to Hedson Technologies, an environmental engineering corporation and world leading supplier of cleaning, curing and lifting equipment.



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### PROJECT DESCRIPTION

- **Type of industry:**  
Wood industry
- **Place:**  
Sweden
- **Project number:**  
300640 IK Teknik/Norrskog Wood Products

### OBJECTIVE

Stock is initially kept outdoors. Enquiry to bring the product quickly and carefully from -20°C to suitable process temperature, a temperature span of appr 45 °C.

### PROCESS

- **Parts, material and dimensions:**  
Wood
- **Type of transport, static/dynamic, speed etc:**  
Dynamic conveyor
- **Material (wet-dry paint/other), max temp allowed etc:**  
Variation of wood surface treatment

### IRT HEDSON SOLUTION

- **Chosen heating method, cassette dimensions, time, temperature increase/min, effect etc:**  
During a 12 second heating period surface temperature is increased to 55°C after which a cool-down period takes the wood temperature to process optimal 25 °C.  
To match the process the IRT Singleheater module was made 1m wide across the conveyor, with a max effect output of 90 kW.  
The standard output is often much lower since max temperature span is seldom needed.

# CASE: IK TEKNIK / NORRSKOG WOOD PRODUCTS WORLDWIDE WOOD SUPPLIER

Norrskog Wood Products offers planed, pressure-treated and sawn timber of high quality redwood and whitewood to the construction and carpentry segments worldwide. Their timber grows slowly in cold northern climate giving the product dense growth rings with high quality, small knots and good form stability. IK Teknik is their chosen wood machinery partner..

## QUICK ADJUSTMENT TO PROCESS

Stock is initially kept outdoors. In order to bring the product quickly to process temperature, IK Teknik suggested using infrared technique in the process. IRT were invited to create a solution that would bring the wood from outdoor temperatures as low as -20°C to suitable process temperature, a temperature span of appr 45 °C. IRT supplied a SingleHeater solution with which surface temperature is increased to 55°C during a 12 second heating period after which a cool-down period takes the wood temperature to process optimal 25 °C. Process surface treatment parameters are now optimal and process speed is increased with the help of the IRT SingleHeaters module.

Several previous quality issues disappeared with the new installation. (Project ref 300640).



- Gentle pre-heating of wood before surface treatment in manufacturing process.



- The HMI operator panel, easy to use with pre-programmed settings.



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