



THERMAL SYSTEMS

# Best quality: Our Fast Firing System

Optimal process performance for best cell results



Fast Firing System  
Solar Equipment



# Fast Firing System

## Best quality for best solar cells

REHM fast firing systems for the metallization of crystalline silicon solar cells excel because of the high quality design. The modularity is the key feature that allows these systems to perfectly fit into any solar cells manufacturing environment. The maintenance friendly concept, the low energy consumption, the optimized production cycle and the smart software solutions are only some of the winning features of these top-quality systems for the metallization of the solar cells.

All systems are available with short-wave IR heaters placed in the top and in the bottom side of the process chamber.

The main goal achieved is excellent process stability. In the new Speedfire Furnace system a controllable temperature profil per Lane (crossprofil adjustment) in the Firing area is available.

## Facts and figures

### Detail information of the Fast Firing System

#### System Types

	RFS-D 250	RFS-D 500	RFS-D 500 SPEEDFIRE
<b>Length:</b>	9,7 m	9,7 m	10,7 m
<b>Width:</b>	1,62 m	1,87 m	1,87 m
<b>Footprint:</b>	15,7 m <sup>2</sup>	18,2 m <sup>2</sup>	20,0 m <sup>2</sup>
<b>Weight:</b>	approx. 4300 kg	approx. 4500 kg	approx. 5000 kg
<b>Furnance max. Temp. Firing:</b>	max. 1000 °C	max. 1000 °C	1000 °C
<b>Furnance max. Temp. Drying:</b>	max. 400 °C	max. 400 °C	400 °C
<b>Ramp Rate heating:</b>	>120 K/s	>120 K/s	> 120 K/s
<b>Zones Temperature Unifomity:</b>	± 2 K	± 2 K	± 2 K
<b>Heating Zones Drying:</b>	7	7	7
<b>Heating zones Brunout/Firing:</b>	5/3	5/3	5/3
<b>Cooling Type:</b>	air and water	air and water	air and water
<b>Cooling Zones:</b>	2	4	2
<b>Conveyor Width:</b>	200/250 mm	440/500 mm	540 mm
<b>Belt Speed Range:</b>	1 – 8 m/min	1 – 8 m/min	1 – 10 m/min
<b>Belt Type/Conveyor Material:</b>	Mesh Belt/ NiChrome V	Mesh Belt/ NiChrome V	Mesh Belt / NiChrome V
<b>Throughput:</b>	2000 wph	4000 wph	5300 wph
<b>Transport Height:</b>	930 +/-50 mm	930 +/-50 mm	930 +/-50 mm