THERMAL SYSTEMS

Regenerate your cells

by reducing the LID effect

LID Regeneration

Solar Equipment

LID Regeneration Tool
Regenerate your cells by reducing the LID effect

Monocrystalline Czochralski-grown silicon wafers allow for high efficient solar cells and are widely used for the production of PERC cells. However, they suffer from a considerable reduction of cell efficiency within the first hours under sunlight. This effect is called Light Induced Degradation (LID). Since solar cells and modules are sold according to their performance, there is a considerable economic potential in the regeneration of this effect.

The Rehm LID Regeneration Tools has two advantages which are based on the installed laser technology. The available high radiated power is easy to control and adaptable to all different cell technologies and preceding processes applied - which guarantees a nearly perfect regeneration. Another advantage is the very low footprint which makes it easy to retrofit in existing line concepts.

Facts and figures
Detail Information of the LID Regeneration Tool

System Types

	RRS-LID-SL	RRS-LID-DL
Overall Length:	2,0 m	2,0 m
Overall Width:	1,71 m	2,20 m
Overall Height:	1,81 m	1,81 m
Footprint:	3,5 m²	4,2 m²
Weight:	approx. 1600 kg	approx. 2500 kg
heat transfer:	Laser/radiation	Laser/radiation
Regeneration Zones per lane:	4	4
Cooling Type:	Air	Air
Cooling Zones Length:	500 mm	500 mm
Conveyor Width:	250 mm	2 x 250 mm
No. of Transport Lanes:	single lane	double lane
Lane pitch:	-	350 mm
Belt Speed Range:	1 – 8 m/min	1 – 8 m/min
Belt Type / Conveyor Material	Mesh Belt / Stainless Steel	Mesh Belt / Stainless Steel
Throughput:	2650 wph	5300 wph
Case of Application:	LID Regeneration	LID Regeneration
Transport Height:	930 +/-50 mm	930 +/-50 mm

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