

Technical specifications Manz back-end line	
Functions	incoming inspection micro crack printing, drying, firing, edge isolation, testing, sorting
Dimensions	approx. 38,500 x 2,000 x 2,750 mm
Throughput	2,400 wafer/h
Printing accuracy	± 10µm high accuracy printer ± 50µm standard printer
Performance	uptime > 95% breakage < 0.25%
Inline quality control print inspect after each print cycle: 3x	<ul style="list-style-type: none"> <li>→ micro crack</li> <li>→ front side b/w inspection</li> <li>→ front side color inspection</li> <li>→ rear side b/w inspection</li> <li>→ I/V measurement</li> <li>→ electroluminescence analysis</li> </ul>
Solar cell formats	125 x 125 mm 156 x 156 mm 210 x 210 mm [optional]
Geometry	square, pseudo-square, rectangular
Material	mono-, multi-crystalline cSi wafers
Thickness	150µm ... 250µm

Contact	
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**Highlights**

60 MW capacity, 2,400 cells per hour throughout within one single line.	Standard printer with parallel cell printing on one screen. Fastest printing cycle enabled by new printing technology.	High accuracy printer with 60 MW throughput.	High efficiency cSi line configurations for selective emitter application.
Customized wafer input handling suitable for all typical solutions [cassettes or box loading as well as inline interconnection].	All integrated vision inspection of each printing process for best quality control.	Best in class cost of ownership due to small footprint, compact design and low energy consumption.	Easy maintenance in day to day operation.
100 % micro crack testing of incoming wafers.	Lowest cell breakage due to gentle cell transfer.	Superior machine availability by consequent inline philosophy totally avoiding intermediate handlings and manual interaction.	



IML 2400	IPC 2400	IDF 2400	IWB 2400	IPB 2400	IDF 2400	IWB 2400	IPF 2400	IFF 2400	ILE 2400	ICT 2400
inline metallization loader	inline printer back contact	inline drying furnace	inline wafer buffer	inline back surface field	inline drying furnace	inline wafer buffer	inline printer front contact	inline drying and firing furnace (OEM product)	inline laser edge isolation	inline cell tester and sorter