

**STATE-OF-THE-ART**

**75 MW**

**SOLAR CELL  
PRODUCTION LINE  
FOR SALE**

**SINGLE MACHINES  
ALSO AVAILABLE!**

**OFFERS ON EVERY SINGLE PART OF THE  
PRODUCTION LINE ARE NOW ACCEPTED**

AUKTIONSHAUS  
**KÖCK**  
INDUSTRIEVERWERTUNG

**NOVEMBER 2012 UPDATE**

# State-of-the-art solar cell production line FOR SALE



## Your advantages:

- State-of-the-art production technology
- Through the high degree of automation in the production line labour costs only take 2%, therefore fully competitive to low-wage countries
- Annual output of 72MW – 75 MW and a yield of 97.5 %
- Efficiency up to 18,5 %
- Possible product types: Fullsquare 156x156mm, 3-Bus-Bar, 2-Bus-Bar
- Running time so far 14 months
- Planned and installed by the company Schmid with manufacturing machines by the companies Schmid, Roth & Rau, Jonas & Redmann and Asys
- Last full technical service by the company Schmid in May 2012
- Very attractive price
- Actual location: Central Europe

Find further information material, photos and technical details on [www.ivk.cc](http://www.ivk.cc)!

Do not hesitate to contact us via email [office@ivk.cc](mailto:office@ivk.cc)!

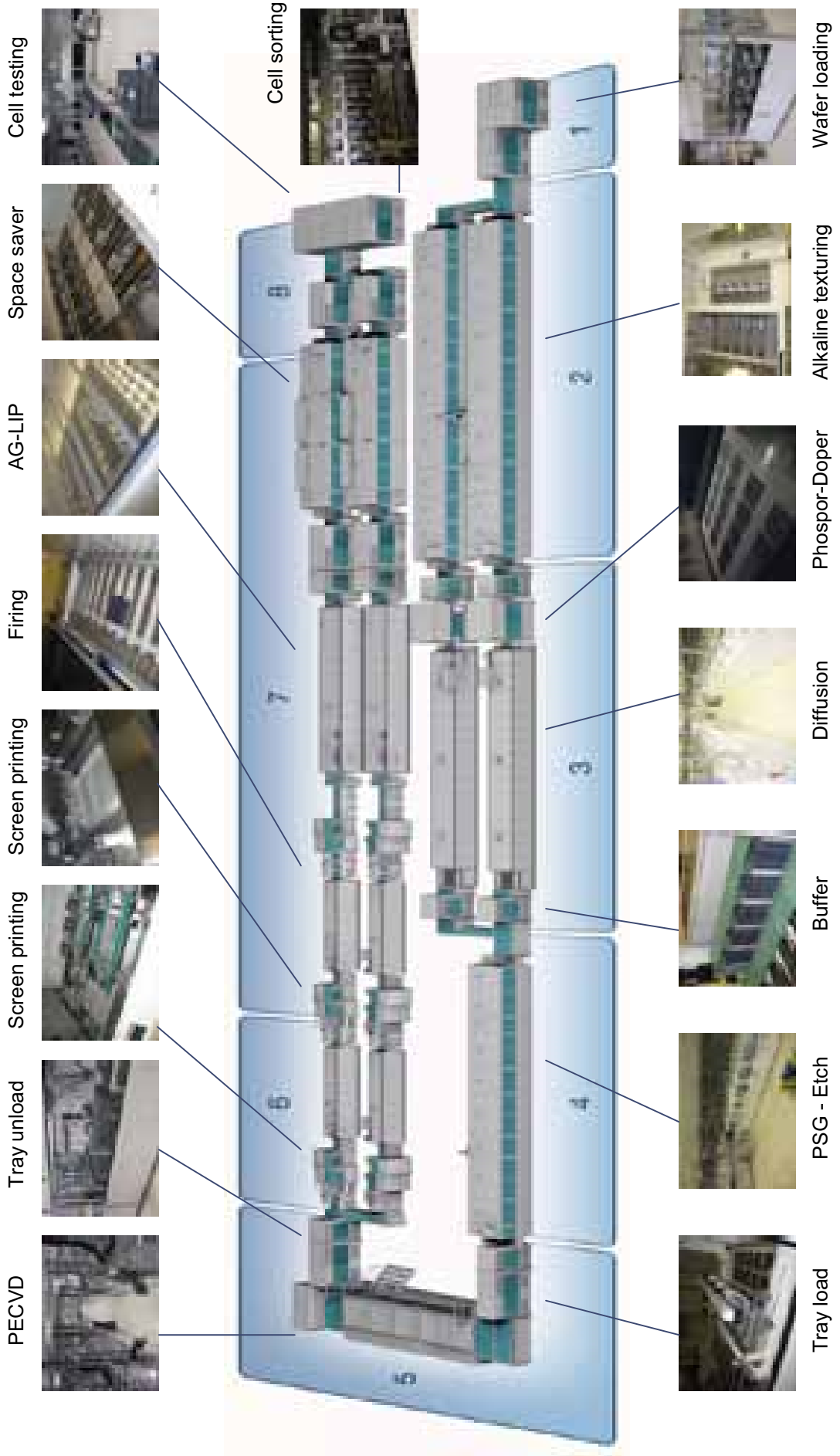
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Technology & production process

# Technology & production process

Blue Chip production process





# Blue Chip Energy GmbH

## 75 MW solar cell production line machinery

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	Type	Manufacturer		Model
1	LOAD CELL-LINE	Schmid Group		LCL3000
2	CONVEYOR	Schmid Group		TC5-AL-TEX1500
3	ALKALINE ETCH	Schmid Group		AL TEX 1500
4	CONVEYOR	Schmid Group		TC5-BU1000/5/2
5	BUFFER	Schmid Group		BU1000/5/2
6	P-DOPER	Schmid Group		P-DOP1500
7	P-DIFFUSION/FURNACE	Schmid Group	Sierratherm	P-DIFF1500
8	CONVEYOR	Schmid Group		TC5-BU1000/5/2
9	BUFFER	Schmid Group		BU 1000/5/2
10	ALKALINE ETCH	Schmid Group		AL TEX1500
11	CONVEYOR	Schmid Group		TC5-BU1000/5/2
12	BUFFER	Schmid Group		BU 1000/5/2
13	P-DOPER	Schmid Group		P-DOP1500
14	P-DIFFUSION/FURNACE	Schmid Group	Sierratherm	P-DIFF1500
15	CONVEYOR	Schmid Group		TC5-BU1000/5/2
16	BUFFER Tray Handling	Schmid Group		BU 1000/5/2
17	CONVEYOR	Schmid Group		TC5-SP-ETCH
18	SINGLE SIDE ETCH/PSG-ETCH	Schmid Group		SP-ETCH3000
19	CONVEYOR	Schmid Group		TC5-BU1000/5/2
20	BUFFER	Schmid Group		BU1000/5/2
21	TRAY LOAD	Schmid Group		L-PECVD3000
22	TRAY HANDLING	Schmid Group		TH-PECVD3000
23	PECVD S1NA	Schmid Group	Roth&Rau AG	SINA L+2 Lext mit GRS
24	TRAY HANDLING	Schmid Group		TH-PECVD3000
25	TRAY UNLOAD	Schmid Group		UL-PECVD1500
26	BUFFER	Schmid Group		BU2000/5/4
	INKJET	Schmid Group		DQD15Q0
	INKJET	Schmid Group		DOD1500
	INKJET	Schmid Group		DOP1500
	INKJET	Schmid Group		DOD1500
27	FLIP-STATION	Schmid Group		FL5-DOD2000
28	BUFFER	Schmid Group		BU 1000/5/2
29	BUFFER	Schmid Group		BU2000/5/4
30	PECVD SINA	Schmid Group	Roth&Rau AG	SINA L+2 Lext mit CRS

31	TRAY HANDLING	Schmid Group		TH-PECVD3000
32	TRAY UNLOAD	Schmid Group		UL-PECVD1500
33	BUFFER	Schmid Group		BU2000/5/4
34	FLIP-STATION	Schmid Group		FL5-DOD2000
35	BUFFER	Schmid Group		BU1000/5/2
36	BUFFER	Schmid Group		6U2000/5/4
37	CONVEYOR	Schmid Group		TC5-BS3000
39	CONVEYOR	Schmid Group		TC5-BU1500/5/3
40	BUFFER	Schmid Group		BU1500/5/3
41	CONVEYOR	Schmid Group		TC4-SP3000
42	FLEXPICKER	Schmid Group		RL5/4-TC4-SP30Q0
43	SCREENPRINTING BSG	Schmid Group	ASYS Group	SP-BSG1500
44	DRYING/FURNACE	Schmid Group	Sierratherm	DSP-BSG1500
45	SCREENPRINTING BSF	Schmid Group	ASYS Group	SP-BSF1500
46	DRYING/FURNACE	Schmid Group	Sierratherm	DSP-BSG1500
47	CONVEYOR	Schmid Group		Space Saver
48	SCREENPRINTING FS	Schmid Group	ASYS Group	SP-FS1500
49	FIRING	Schmid Group	Sierratherm	DFSP-3000
50	FLEXPICKER	Schmid Group		RL4/5-BU4000/5/8
51	BUFFER	Schmid Group		BU4000/5/8
52	FLIP-STATION	Schmid Group		FL5-LIP1800
53	AG-LIP	Schmid Group		LIP1800
54	CONVEYOR	Schmid Group		TC5-BU2500/5/5
55	FLIP-STATION	Schmid Group		FL5-C-SORT
56	BUFFER	Schmid Group		BU2500/5/5
57	CONVEYOR	Schmid Group		Space Saver
58	FLEXPICKER	Schmid Group		RL5/4-TC4-SP3000
59	SCREENPRINTING BSG	Schmid Group	ASYS Group	SP-BSG1500
60	DRYING/FURNACE	Schmid Group	Sierratherm	DSP-BSG1500
61	SCREENPRINTING BSF	Schmid Group	ASYS Group	SP-BSF1500
62	DRYING/FURNACE	Schmid Group	Sierratherm	DSP-BSF1500
63	CONVEYOR	Schmid Group		Space Saver
64	SCREENPRINTING FS	Schmid Group	ASYS Group	SP-FS1500
65	FIRING	Schmid Group	Sierratherm	DFSP-3000
66	FLEXPICKER	Schmid Group		RL4/5-BU2000/5/4
67	BUFFER	Schmid Group		BU2000/5/4
68	FLIP-STATION	Schmid Group		FL5-LIP1800
69	AG-LIP	Schmid Group		LIP1800
70	CONVEYOR	Schmid Group		TC5-BU2000/5/4

71	FLIP-STATION	Schmid Group		FL5-C-SORT
72	BUFFER	Schmid Group		BU2000/5/4
73	CONVEYOR	Schmid Group		Space Saver
74	CONVEYOR	Schmid Group		TC5-C-SORT5000/16
75	BUFFER	Schmid Group		BU1000/5/2
76	CONVEYOR	Schmid Group		TC5-BU1000/5/2
77	CELL SORTER	Schmid Group		C-SORT 5000/16
78	Facility			

	Type	Manufacturer	Model
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1	BOE Etech+Stripping	Schmid Group	Typ 63
2	WT-2000 Waferscanner	Sentech, D-Stockdorf	
3	EHipsometer	Sentech, D-Stockdorf	
4	Shunt Detector	K+S Engineering OG, Villach	

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	Type	Manufacturer	Model
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1	Hast Test Equipment	Simac	PC-422 R8 0910761396
2	Bruchtester (Cef! Stability)	GP Solar	04.01.0004 S.Nr.04.00128
3	Auffangbehälter PSG	Kornder	125310
4	Solar Simulator Thermochuck	Newport mb Technologies	94083A S.Nr.109/2168285
5	Zeiltester	Jonas & Redmann	
6	uCrack (in Cell-Loader eingeb.)	DWS Technology	
7	Reflektometer	Ocean Optics	ISP-50-8-R S.Nr. 0478 100 41
8	Konfokalmikroskop	FRT	11/0350-01 MPR 1273/100 358 745
9	Viskosimeter	VWR	002-2089 110000146001 E20 9417132
10	Ionenchromatograph	Dionex	068888 100 909 04 064376 100 400 41 8424277
11	USV Notstrom	Schmachtl	SMS ST60-P/AO PIN GMTAGOKOPA MATML21VP 150710001

**Find further information material, photos and technical details on [www.ivk.cc](http://www.ivk.cc)!  
Do not hesitate to contact us via email, [office@ivk.cc](mailto:office@ivk.cc)!**