

### Edition 1.0





# Contents

Label printers SQUIX for industrial application	۱.	•••	•	•••	•	 •	•	•	•		3
Type overview SQUIX 4			•		•	 •	•	•	•		.4
Technical details	• •		•		•		•	•	•		.5
Operation panel					•	 •	•	•	•		.6
Print heads					•	 •	•	•	•		.7
Print rollers					•	 •	•	•	•		.7
Interfaces	• •		•		•	 •	•	•	•		.7
Technical data	• •		•	•••	•	 •	•	•	•	8-	-9
Accessories	• •		•		•		•	•	•	. 10-1	13
Applicator S1000			•		•	 •	•	•	•	. 14-1	.5
Applicator S3200					•	 •	•	•	•	1	16
Dispensing module S5104			•		•	 •	•	•	•	1	16
Mounting equipment SQUIX 4	• •	• •	•	•••	•	 •	•	•	•	1	17
Software	• •		•		•	 •	•	•	•	1	18
Stand-alone operation	• •		•		•	 •	•	•	•	1	8
Printer drivers	• •		•		•	 •	•	•	•	1	19
Programming / Integration / Administration .	• •		•		•	 •	•	•	•	1	19
Maintenance / Service / Training	• •		•		•	 •	•	•	•	2	20
Product range	• •		•		•	 •	•	•	•	. 21-2	22
Product overview							•			2	23

All information on scopes of delivery, design and technical specifications correspond to the date of the printing. Subject to change.

For current data see website www.cab.de/en/labelprinter

# Label printers SQUIX for industrial application



#### SQUIX represent

- innovative technology,
- easy operation,
- accuracy of impression,
- reliable and fast printing,
- compact, appealing design,
- highest quality standards.

The professional industrial label printers SQUIX can be used in a wide variety of applications. Their development is foremost focused on simple and convenient operation coupled with high reliability.

The print mechanics and housings are made of high-quality materials and perfectly match in terms of shape and function. A wide range of peripherals and software enable specific customized solutions.

Regardless of whether they are operated in stand-alone mode, in a PC application or in a network – the solid SQUIX printers are always up to the mark. A high-speed processor ensures fast printing processes and immediate label output.

#### Sample applications:

PCB labels If there is only little space available – smallest label size 4 x 4 mm

**Type plates** Pin sharp 600 dpi fonts, graphics and barcodes

**Cardboard box and pallet labels** Labels up to A6 format







### Type overview

### SQUIX 4

Material guide left-aligned





For printing on labels and continuous materials, wound on rolls or fanfold. The material is torn off at the jagged tear-off edge. Optionally, it can be cut or externally rewound.



### 1.2 Dispensing versions P

In addition to the basic model the labels can be dispensed. The label is removed from the liner during the printing process. It can be removed manually or by applicator. Delivery includes I/O interface

### Material guide centered



### 1.3 Basic versions M

For printing on all materials that are wound on rolls or reels resp. fanfold. Especially for very small labels and slim continuous materials such as pressed tubes. There is no need of adjusting the label width on the print head. Suitable print rollers are offered for small and thin materials.



### 1.4 Dispensing versions MP

With RFID write/read device

in the printer's native language JScript.

1.5

1.6

In addition to the basic model the labels can be dispensed. The label is removed from the liner during the printing process. It can be removed manually or by applicator. Delivery includes I/O interface

HF according to ISO/IEC 15693 with 13.56 MHz

UHF according to ISO/IEC 18000-6C/EPC Class 1 Gen 2 The Smart Labels are printed, the integrated RFID chip is tested and qualified with data. In case of an error the label is marked with a grid print. The write/read commands are implemented



### 1.7 With separator MT

Preferred application with continuous and textile materials as well as pressed tubes. The transfer tape may stick with the textile tape after the printing. With a drive roller, the material is separated from the ribbon. In addition, the accuracy of impression is improved.



### **Technical details**



#### 1 Hinged cover

The two-part cover made of impact-proof plastics folds when opened. Only little footprint is needed. The large panoramic window allows to check the consumption of material and track the full printing process.

#### 2 Solid metal chassis

Made of cast aluminum. All components are mounted on it.

#### 3 Peel-off function

The label is removed from its liner via peel-off plate. High accuracy of printing and applying is achieved with the powered rewind assist and pinch rollers.

#### 4 Peripheral connection

Add-on modules are easy to connect. All peripheral devices are plugged in the printer with two pins and fixed with a screw.

#### 5 Ribbon holder

The three-part tightening axles enable a quick and easy exchange of ribbon.

#### 6 Roll holder

The spring-mounted margin stop ensures constant tension during material feed, thus high accuracy of printing. For heavy rolls with core diameters of 76 or 100 mm an adapter is recommended.

#### 7 Internal rewinder

With the rewinder labels or liners with or without a cardboard core can be rewound. The three-part tightening axle allows easy removal of the material.

#### 8 Rocker

The resilient rocker with pulleys made of Teflon dampens the tension at print start, thus improving the accuracy of impression.

# **Operation panel**

Intuitive and easy operation with self-explanatory symbols for configuration of the printer settings.

#### Display

#### 1 Power on

2 Head line

These functions are displayed: receive print data, record data stream, ribbon warning, USB memory stick, SD memory card, USB, LAN, WLAN, Bluetooth, time

#### 3 Status reports

Ready, pause, number of printed label per print job, label in dispensing position, waiting for external start signal

#### Buttons

4

For **options** with the following functions Cutter/perforation cutter: direct cutting External rewinder: winding inside and outside Tear-off or peel-off mode: printing of the next label application of the label Applicator:

#### 5 Operation

- Ö Jump to menu
- Repetition of the last label
- ..... Interruption and continuation of the print job





Menu selection

# Print heads



All print heads are automatically detected and calibrated by the CPU. Major data like running performance, maximum operating temperature and heating energy are stored directly in the print head. The data can be read out at the plant.

### Print heads type 4 - 300, 600 dpi

They have a particularly sharp-edge print image. They are suitable for type plates with small fonts and graphics. They are, amongst others, required for resin ribbons with high energy needs.

#### Print heads type 4.3 - 200, 300 dpi

They are recommended especially for direct thermal printing and application in rough surroundings.

### **Print rollers**



### Interfaces



Two types of material are provided for the different applications:

**Print rollers type DRK4** – synthetic rubber coating; They are suitable for high accuracy of impression and are provided as standard.

In the case of centered material guidance slim print rollers are offered for slim materials.

**Print rollers type DRS4** – silicone rubber coating; They have an extra long service life with a higher tolerance of impression.

- Plug-in for SD memory card
- **2** 2 x USB host interfaces for keyboard, barcode scanner, USB memory stick, USB Bluetooth adapter
- USB 2.0 Hi-speed device for PC connection
- 4 Ethernet 10/100/1000 Base-T

WLAN 802.11b, g, n, access point mode or station mode

- 5 **RS232C interface** 1.200 to 230.400 baud/8 bit
- 6 **3.1** I/O interface standard with dispensing device, accessory to basic device A PLC, a sensor or a hand switch start the labeling. At the same time, status and error messages are issued.

Compliant with IEC/EN 61131-2; all in- and outputs with galvanic isolation and reverse polarity protection, outputs in addition short circuit protected

#### **Inputs PNP**

Start printing and applying Print first label Reprint Delete print job Label dispensed Interrupt labeling Pause Reset Outputs PNP, NPN on request Printer/applicator ready Print job available Applicator in basic position Paper feed ON Label in dispensing position Applicator in applying position Pre-warning end of ribbon Common error

# **Technical data**

							<ul> <li>Typical</li> </ul>	O Pos	ssible 🔳 S	Standard	□ Option
Device type		Mater	ial guide		Left-a	ligned			Cent	ered	
Type of print head				4.3	4.3	4	4	4.3	4.3	4	4
Printing method	Thermal transfer			•	•	•		•	•	•	•
Drintable recolution	Direct thermal		dni	202	200	200	600	202	200	200	600
Print speed	I	un	to mm/s	203	250	300	150	203	250	300	150
Print width		٩p	mm	104	108.4	105.7	105.7	104	108.4	105.7	105.7
Printable area	Distance to locating edge	when left-aligned	mm	2.8	1.2	2.0	2.0	-	-	-	-
		when centered	mm		-	-			Centered of	on material	
Material <sup>1)</sup>											
On roll or fanfold:	paper, cardboard,	· PU acrulate Tuve	_							Ð	
On roll or reel	textile pressed tubes Sma	rt Label	-		(	)				•	
Labels	Width <sup>1)</sup>		mm		20 -	116			4 -	110	
	Height <sup>1)</sup>		mm		6 - 2	,000			4 - 2	,000	
	Thickness		mm		0.03	- 0.60			0.03	- 0.60	
Liner material	Width		mm		24 -	120			9 -	114	
	Thickness		mm		0.03	- 0.13			0.03	- 0.13	
Continuous material	Thickness		mm		24 -	0.50			4 -	0.50	
	Weight (cardboard)		$r to \sigma/m^2$		3(	- 0.30			0.03	- 0.30	
Pressed tube	Width ready-for-use	۳۲ ل	ip to mm		-	-			1	14	
	Width continuous		mm			-			4 -	85	
	Thickness	u	p to mm			-			1	.1	
Roll	Outer diameter	u	ip to mm		20	05			2	05	
Deel	Core diameter		mm		38.1	- 100			38.1	- 100	
Reel	Outer diameter	u	ip to mm			-			20 1	76	
	Outer width		mm			_			11 -	114	
Winding					Outside	or inside			Outside	or inside	
Ribbon <sup>2)</sup>											
Ink side							Outside o	r inside			
Roll diameter		u	p to mm				80				
Core diameter			mm				25.4	4			
Variable length			up to m	450							
Internal rewinder w	with disponsing dovico	u	p to mm				25 - 1	.14			
Outer diameter	with dispensing device	u	n to mm				142	>			
Core diameter			mm				38.1 -	40			
Winding							Outsi	ide			
Printer sizes and w	eight										
Width x Height x De	pth		mm				252 x 288	3 x 460			
Weight	acition indication		kg				10				
Gan sensor					For lab	el front ec	lge or nunch	marksa	und end of m	aterial	
Reflective sensor fr	om below (optionally from t	op)			F	or print ma	ark front edg	e and er	nd of materi	al	
Distance sensor	to locating edge	Left-aligned	mm		5 -	60				-	
	from center to locating edge	Centered	mm		-	-			0 -	55	
Height of material p	bassage	Standard	mm		1	2				2	
DEID		Option	mm		4	4				4	
Write/read device	HE ISO/IEC 15603 13 56 M	IHz							Г		
anterieau device	UHF ISO/IEC 18000-6C/EPC	Class 1 Gen 2				_			ـــــــــــــــــــــــــــــــــــــ	]	
Electronics	,										
Processor 32 bit clo	ck rate		MHz				800	)			
Main storage (RAM)			MB				256	5			
Data storage (IFFS)			MB				50				
Plug-In for SD mem	ory card (SDHC, SDXC)		up to GB				512	2			
Data storage when	nower turned off (e g serial	numbers)									
Acoustic signal											
Interfaces											
RS232C 1.200 to 230	).400 baud/8 bit										
USB 2.0 Hi-speed De	evice for PC connection				100 15	10 0 -					
Ethernet 10/100/100	00 Base-T				LPD, IPv4,	IPv 6, Raw	/IP printing, I P Zeroconf	DHCP, H SOAP W	TTP, FTP, SM eb service	ITP, SNMP,	
1 x USB host at the o	operation panel up to 500 m	A				For ser	vice kev or U	SB mem	orv stick		
2 x USB host on the	back of the device up to 500	mA		Fork	evboard b	arcode sca	nner, USB m	emorvs	tick. USB BI	uetooth ad	apter
WLAN 802.11b, g, n,	access point mode or statio	n mode	GHz		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2,4 📕/	5 🗆	, 000 DI		
Peripheral connect	ion USB host, 24 DC										
Digital I/O with 8 in-	and outputs	Dispensing/basi	ic device				<b></b> /				

<sup>1)</sup> Limitations may apply to small labels, thin materials or strong adhesives. These applications need to be tested and approved. <sup>2)</sup> Ribbon at least according to width of label material in order to avoid folding.

Operating data					
Power supply		100 - 240 VAC ~ 50/60 Hz. PFC			
Power consumption		Standby $< 10 \text{ W} / \text{typical } 150 \text{ W} / \text{maximum } 300 \text{ W}$			
Temperature / Oper	ation	0 - 40°C / 10 - 85% not condensing			
humidity Store		0-40 C/10-C	25% not condensing		
Trans	ge port	25 60°C/20-0	25% not condensing		
Approvale	ροπ				
Approvais Operation panel		CE, FCC Clas	SA, CB, CCC, OL		
Operation panet	Tauak	eeneen LCD eelen dien le			
Canada dia arawal	10000	screen LCD color displa	У		
Screen diagonal	4.3	400			
Pixel W x H	272 x-	480			
Settings					
	Regio lan cou key tim Print Dispe Cut Apply	n: guages untry /board ne zone nse	Time/date Labels Ribbon Error handling Interpreter/emulation Interfaces		
On display	rippiy				
on display	Digita	l clock	LISB slave status		
	Digital clock Data reception WLAN field intensity Ethernet status Bluetooth status Data recording		Ribbon remaining USB memory stick plugged in SD memory card plugged in		
Control					
	Ribbo Ribbo End o End o Peripl	n direction of winding n pre-warning f ribbon f material neral error	Print head tension Print head temperature Print head open Pinch roller open (with dispensing version and separator)		
Testing			, ,		
System diagnosis	When	device is switched on.			
	incluc	ling automatic print hea	ad detection		
status printout, analysis	label print of	profile, test grid, monito data recorded on memo	DAN status, or mode, ory card		
Status reports	Printo and ru comm - no li	ut of device settings, e. Intime counter, machin Iand, display of e.g. net nk, barcode error, perip	g.print length e status via software work errors heral error etc.		
Fonts					
Font types	5 bitm fonts 821 in	hap fonts including OCR Swiss 721, Swiss 721 bo ternally provided, True	-A, OCR-B and 3 vector ld and monospace Type fonts loadable		
Character sets	Windo 857, 8 and -1 DEC M All We Cyrilli Thai c	indows 1250 to 1257, DOS 437, 737, 775, 850, 852, 7, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 Id -13 to -16, WinOEM 720, UTF-8, Macintosh Roman, CC MCS, K0I8-R Western and Eastern European characters, Latin, rrillic, Greek, Hebrew, Arabic, simplified Chinese and nai characters are supported.			
Bitmap fonts	Size ir Zoom Orien	n width and height 1 - 3 factor 2 - 10 tation 0°, 90°, 180°, 270°	mm		
Vector/	Size ir	width and height 0,9 -	128 mm		
TrueType fonts	Zoom Orien	tactor freely adjustable tation 360° in steps of 1°	5		
Font styles	Bold, - depe	italic, underlined, outlir ending on the font type	ne, inverse		
Character pitch	Variat	Variable or monospace for steady character pitches			

Graphics Lines, arrows, rectangles, circles, ellipses, Graphic elements filled and filled with fading Graphic formats PCX, IMG, BMP, TIF, MAC, GIF, PNG Barcodes Linear barcodes Code 39, Code 93 Interleaved 2/5 Ident and lead code of Code 39 Full ASCII Code 128 A, B, C Deutsche Post AG EAN 8, 13 Codabar EAN/UCC 128/GS1-128 JAN 8, 13 EAN/UPC appendix 2 EAN/UPC appendix 5 MSI Plessey FIM Postnet HIBC RSS 14 UPC A, E, E0 2D and Aztec Codablock F stacked codes DataMatrix PDF417 Micro PDF417 UPS MaxiCode QR code RSS 14 truncated. limited, stacked and stacked omnidirectional EAN/GS1 DataMatrix GS1 DataBar All codes are flexible in height, modular width and ratio. Orientation 0°, 90°, 180°, 270° Options: check numbers, plain writing printout and start/stop code depending on type of code Software Direct programming with printer language JScript abc Basic Compiler Database Connector Programming Emulation ZPL Control/ Printer control Administration Network Manager administration Label software cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print Also running with CODESOFT NiceLabel EASYLABEL BarTender WHQL certified Windows Vista Server 2003 Windows Windows 7 Server 2008 printer drivers Windows 8 Server 2008 R2 Windows 8.1 Server 2012 for Server 2012 R2 Windows 10 Apple Mac drivers OS X printer drivers valid from version 10.6 Linux drivers Valid from CUPS 1.2 Stand-alone operation 

#### ■ Standard □ Option

### Overview

		\star Туј	pical $\bigcirc$ Pos	ssible 🗆	Accessory
Pos.	Printer add-ons	Basic device	Dispensing device	Left- aligned	Centered
1.5	RFID HF 13,56 MHz			-	
1.6	RFID UHF 868/915 MHz			-	
1.7	Separator S400		-	-	
	Extra equipment				
22	Print rollers DRK4-25, DRK4-50, DRK4-80			-	
2.2	Print roller DRS4-120				
2.3	Antistatic brush				
2.4	Label sensor 2 (reflex from top)	•			
2.5	Label sensor 4	•		-	
2.6	Adapter 100	•			
2.7	SD memory card 8 GB	•			
2.8	USB memory stick 8 GB	•			
2.9	USB WLAN stick 802.11b/g/n 2.4 GHz + a/n/ac 5 GHz	•			
2.10	USB Bluetooth adapter	•			
2.11	Barcode tester for linear and 2D barcodes				
	Dispensing labels				
2.12	Present sensor PS800	-			-
2.13	Present sensor PS900	-			
2.14	Present sensor PS1000	-			
2.15	Extended peel-off plate DP410	-			
2.16	Product sensor	-			
	Interfaces				
3.1	I/O interface	•			
3.2	I/O interface connector, SUB-D 25 pin	•			
3.3	Label selection - I/O box				
	Connecting cable				
4.1	Connecting cable RS232 C, 9/9 pin, length 3 m				
	Cutting, perforating, stacking				
5.1	Cutter CU400 with cutter tray		0		
5.2	Perforation cutter PCU400		0		
5.3	Stacker with cutter and base frame ST400		0	-	
	Rewinding, unwinding labels				
6.1	Rewind guide plate RG400	-			
6.2	External rewinder ER4200		0		-
6.3	External rewinder ER4300		0		-
6.4	External rewinder EU4390				-
	Applicators and modules for dispensing				
7.1-7.5	Applicator S1000	-			
7.6	All-around labeler	-			
7.7-7.9	Applicator S3200	-			
7.10	Dispensing module S5104	-			-
	Mounting equipment				
8.1	Mounting plate	-			-
8.2	Profile 40/80/120 mm	-			-
8.3	Base plate 500 x 255 mm	-			-
8.4	Floor stand 1600	-			-
8.5	Printer holder	-			-
	Further A <sup>+</sup> series accessories				
	External rewinder ER1/210 <sup>1)</sup>		0		-
	External rewinder ER4/210	•	0		-
	External rewinder ER4/300		0		-
	External unwinder EU4/300	Ō			-
	Adapter kit for rewinders and unwinders <sup>1)</sup>	-			-
	Peel-off adapter PS5	-	•		-
	Present sensor PS6	-			-
	Pause adapter PS7	•	-		
	Applicator A1000-220 <sup>1)</sup>	-			-
	Applicator A1000-300 <sup>1)</sup>	-			-
	Applicator A1000-400 <sup>1)</sup>	-			-
	Applicator A3200 <sup>1)</sup>	-			-
	Interface connector, SUB-D 15 pin	-			-
	Hand switch TR1 <sup>2)</sup>	-			-
	Foot switch <sup>2)</sup>	-			-
	Product sensor <sup>2)</sup>	-			
	Adapter screw M6/M4 <sup>1)</sup> SQUIX M6 to A4+/M4				

<sup>1)</sup> Adjusted to SQUIX. Adapter screw M6 on M4 to attach the external rewinder ER1/210, the applicators A1000 and A3200

 $^{\scriptscriptstyle 2)}$  To be connected to PS5, PS6, PS7,

A1000, A3200

Extra equipment		Extra equipment					
2.2	Print roller DRK4-25 Material width up to 25 mm; synthetic rubber coating for high accuracy of impression	2.4	<b>Label sensor 2</b> Reflex from top in case of pressure bars on the material surface				
	Print roller DRK4-50 Material width up to 50 mm; synthetic rubber coating	2.5	<b>Label sensor 4</b> Gap height 4 mm for special materials like pressed tubes				
	for high accuracy of impression Print roller DRK4-80 Material width up to 80 mm;	2.6	Adapter 100 For label rolls having a core diameter of 100 mm and an outer diameter larger 180 mm				
	synthetic rubber coating for high accuracy of impression	2.7	SD memory card 8 GB				
	Print roller DRS4-120 Material width up to 120 mm	2.8	USB memory stick 8 GB				
2.3	<b>Antistatic brush</b> Particularly in case of plastic materials	2.9	<b>USB WLAN stick</b> 802.11b/g/n 2.4 GHz + 802.11a/n/ac 5 GHz				
	electrostatics is discharged after printing.	2.10	USB Bluetooth adapter				
2.11	<b>Barcode tester for linear and 2D barcodes</b> The accuracy of a horizontally and vertically pr In case of a faulty code the print job is stoppe can be used in tear-off or dispensing mode or For further information see the operator's ma	inted barcode is tested by d and the label can be rer with an external rewinde nual.	a camera directly after printing. noved. The barcode tester r.				
Dispensing labels							
2.12	<b>Present sensor PS800</b> For dispensing devices with left-aligned material guide. The present sensor detects the label being in dispensing position. After the label has been removed the next label is automatically printed.						
2.13	<b>Present sensor PS900</b> For dispensing devices with left-aligned or centered material guide for example with circular labels whose trailing edges cannot be detected by the present sensors PS800 or PS1000 MP. After the label has been removed the next label is automatically printed.						
2.14	<b>Present sensor PS1000</b> For dispensing devices with centered material guide. The present sensor detects the label being in dispensing position. After the label has been removed the next label is automatically printed.						
2.15	<b>Extended peel-off plate DP410</b> For labels with a strong adhesive or very thick liner material that make its removal difficult. Only in connection with printing on demand button on the operation panel or control signal.						
2.16	<b>Product sensor</b> For automatic product detection on the conve	yor belt; range 200 mm for	r the reflective sensor				
Interfaces							
3.2	I/O interface connector, SUB-D 25 pin With screw clamps to connect all control sign	als to the I/O interface					
3.3	Label selection - I/O box From a master controller like PLC up to 32 different labels can be selected from the memory card. The I/O box allows to realize simple PLC control processes with four in- and outputs via abc programming.						
Connecting cable							
4.1	Connecting cable RS232 C, 9/9 pin, length 3 m						





### 5.3



# Cutting, perforating, stacking

#### Cutter CU400

To cut paper labels, self-adhesive labels, cardboard, textile or plastic materials as well as pressed tubes.

#### Cutter tray

Up to approximately 50 labels can be collected in the cutter tray.

Cutter			CU400		
Materia	l Width	up to mm	120		
	Weight card	board gr/m <sup>2</sup>	60 - 300		
	Thickness	mm	0.05 - 1.1		
Cutting	length	mm	> 5		
Gap hei	ght	up to mm	2.5		
Cuts		/min	120		
Stop pri	nt job if		Final cutter position not reached		
Cutter t	ray				
Label height up to mm		up to mm	100		

#### Perforation cutter PCU400

Continuous materials like textile or pressed tubes are perforated in order to subsequently separate them manually. In addition, the materials can also be cut.

Perforati	on cutter		PCU400
Material	Width	up to mm	85
Weight cardboard		oard gr/m <sup>2</sup>	60 - 300
	Thickness	mm	0.05 - 1.1
Cuttingle	ength	mm	> 5
Gap heig	ht	up to mm	2.5
Cuts		/min	Cutting 120/perforating 150
Stop prir	nt job if		Final cutter position not reached
Perforati	ng Web width	n mm	0.5
	Web dista	nce mm	2.5 or 10

#### Stacker with cutter ST400

Printed materials are cut and stacked. When the maximum stack height is reached, the print job is interrupted. With stiff or curved materials limitations may be possible. We recommend to have such applications tested at our plant. To place the devices on the table in any position.

Stacker	with cutter		ST400
Material	Width	mm	20 - 100
	Weight card	board gr/m <sup>2</sup>	60 - 300
	Thickness	mm	0.05 - 0.8
Cutting l	ength	mm	20 - 150
Gap heig	ght	up to mm	1.2
Cuts		/min	120
Stop pri	nt job if		Final cutter position not reached, paper jam, cover stacker open, stack height reached
Stack he	ight	up to mm	100



#### Storage table label W x H

Storage table and protective cover are adapted to the label size. They have to be ordered separately.





# Rewinding labels with or without a cardboard core

Rewind guide plate RG400 for internal rewinder Internal rewinding is for dispensing printers. Thus, the peel-off plate is replaced by the rewind guide plate.

Rewind g	uide plate		RG400
	Material width	up to mm	120
	Roll diameter	up to mm	140
	Tightening axle for cor	e diameter mm	38.1 - 40
	Winding		Outside

#### **External rewinder ER4200**

The rewinder is screwed with the label printer. Labels are wound either inside or outside. The electronic swing arm control ensures consistent and tight winding.

External rewinder		ER4200
Material width	up to mm	120
Roll diameter	up to mm	205
Tightening axle for core diameter	mm	38.1 - 40
Winding		Outside or inside



### External rewinder ER4300

The rewinder is screwed with the label printer. Labels are wound either inside or outside. The electronic swing arm control ensures consistent and tight winding.

External rewinder		ER4300
Material width	up to mm	120
Roll diameter	up to mm	300
Tightening axle for core diameter	mm	76
Winding		Outside or inside

6.4



# **Unwinding labels**

#### External unwinder EU4390

Ensures consistent label feed with heavy rolls. Both outside or inside wound rolls can be processed.

External unwinde	r		EU4390
Material width		up to mm	120
Roll diameter		up to mm	390
Core diameter		mm	38.1
	with adapter	mm	76
Winding			Outside or inside

### **Applicator S1000**



#### **Real-time labeling**

The applicator S1000 combined with a SQUIX is a cost-effective solution for all dispensing printers in semi-automatic operation or when vertically integrated in a production line. The label is placed on the product with a stroke cylinder.

### 1 Long service life

The ball-bearing guides are low-wearing.

#### 2 Flexible product heights

With the stroke cylinder labeling is possible at different heights. Different stroke lengths are available.

#### Compressed air regulation unit

Micro filters prevent from contamination. The compressed air regulator ensures a permanent high quality of labeling.

#### 4 High process reliability

Supporting air jet stream, induction air and stroke speed are adjustable. For sensitive products and packaging the pressing force can be reduced to less than 10N (1 kg). To avoid contamination, the vacuum holes are cleaned with air pressure after each labeling process.

#### 5 Label sizes

Labels widths from 25 to 176 mm and heights from 25 to 200 mm can be processed.

#### Supporting air

Used for blowing the labels onto the pad

#### Pre-dispensing button

To test the labeling process. Pushing the button causes the label to be printed and held by the pad. Pushing the button again starts the labeling process.

Applicator		S1000-220	S1000-300	S1000-400
Cylinder stroke	mm	220	300	400
Tamp stroke below device	mm	64	144	244
Compressed air	bar		4.5	





#### Tamps

The labels are applied to the tamp and held there by vacuum. Tamp and label are then moved to the product by the applicator. **Universal tamp pads** 

The rasterized vacuum holes are covered by a foul

and pierced according to the label size.

### Tamp pad

Manufactured according to the label size

Turne		Universal	tamp pads	Tamp	pad
Type		A1021	A1021	A1021	M1021
Material guide		Left aligned Centered	Left aligned Centered	Left aligned	Centered
Tamp surface W x H	mm	72 x 60	92 x 90	min. 7	2 x 60
Label width	mm	25 - 70	25 - 90	25 -	116
Label height	mm	25 - 60	25 - 90	25 -	200
Product surface			Fla	at	
Product height			Varia	able	
Product during labeling			Not m	oving	









### **Applicator S1000**

### Spring-mounted tamps

The spring deflection allows labeling even on inclined surfaces.

Universal tamp pads

The rasterized vacuum holes are covered by a foul

and pierced according to the label size.

Tamp pad Manufactured according to the label size

Turne		Universal	tamp pads	Tamp	pad
туре		A1321	A1321	A1321	M1321
Material guide		Left aligned Centered	Left aligned Centered	Left aligned	Centered
Tamp surface W x H	mm	116 x 102	116 x 152	min. 8	6 x 92
Label width	mm	25 - 116	25 - 116	25 -	116
Label height	mm	25 - 102	25 - 152	25 -	200
Product surface			Fla	at	
Product height			Varia	able	
Product during labelir	ng		Not m	oving	

#### Blow pad

In case of pressure-sensitive products the label can be blown on. Thus, the blow pad moves to a fixed height. The product to be printed is positioned about 10 mm below.

Blow pad		A2021	M2021
Material guide		Left aligned	Centered
Tamp surface W x H	mm	72 :	< 60
Label width	mm	25 -	116
Label height	mm	25 -	100
Product surface		Fl	at
Product height		Fix	ed
Product during labeling		Not moving	or in motion

#### Roll-on pad

With the roll-on pad the label is moved right below the roll while printing. The pad moves to the product. The label is taken over by the product and rolled on during transport.

Roll-on pad		A1411
Material guide		Left aligned / Centered
Tamp surface W x H	mm	120 x 80
Label width	mm	25 - 116
Label height	mm	80 - 200
Product surface		Flat
Product height		Variable
Product during labeling		In motion

#### All-around labeler

With the applicator labels can be applied to cylindric objects around the entire 360° circumference. The product is put on the rolls and labeling is started via hand or foot switch.

Tamp pad		A1021	M1021
Material guide		Left aligned	Centered
Tamp surface W x H	mm	min. 7	2 x 60
Label width	mm	25 -	116
Label height	mm	25 -	140
Product diameter	mm	12 -	- 40
Product surface		Cylind	drical
Product during labeling		In rotary	motion

### Applicator S3200



#### **Real-time labeling**

The applicator S3200 combined with a SQUIX is a cost-effective solution for all dispensing printers in semi-automatic operation or when vertically integrated in a production line. With the S3200 printed labels are automatically applied on a product. By means of a rotary cylinder the label is positioned 45° to 95° and placed on the product with a short stroke cylinder.

Information on service life, pre-dispensing, compressed air regulation unit, process reliability and supporting air correspond with the applicator S1000 (see page 14).

Applicator		S3200
Rotary cylinder		45° - 95°
Stroke cylinder	up to mm	30
Compressed air	bar	4.5

Tamp pads or blow pads are manufactured according to the label size.

	Tam	p pad	Blow	/ pad
	A3200-1100	M3200-1100	A3200-2100	M3200-2100
Material guide	Left aligned	Centered	Left aligned	Centered
Tamp surface W x H min. mm	72	x 60	72 x 60	
Label width mm	20 -	116	20 - 116	
Label height mm	5 -	80	10 -	- 80
Product surface		Fl	at	
Product during labeling	Not n	noving	Not moving	or in motion

### **Dispensing module S5104**



#### Dispensing module S5104

For labeling on packaging on a conveyor belt. The product sensor identifies the labeling position. Dispensing is started and at the same time the next label is printed. Conveyor belt speed and print speed have to be synchronized. A reflective sensor monitors the positioning.

Dispensing module		S5104
Material guide		Left aligned
Label width	mm	25 - 116
Label height	mm	25 - 200
Product surface		Flat
Product height		Fixed
Product during labeling		In motion, speed synchronized with the printer

# Mounting equipment SQUIX 4



#### Mounting foot

To fasten the apply system and the product holder

#### Mounting plate

The apply system is fastened on the mounting plate.

#### 2 Profile

Standard lengths 40, 80, 120 mm. The aluminum square profile can be manufactured in further lengths on request.

#### Base plate

To fasten the product holder Standard size 500 x 255 mm



#### Floor stand

It enables the printer to be quickly and flexibly integrated in any production line. Height and width of the labeling position are easy to adjust in accordance with the product. Four guide rollers provide for mobility. The floor stand is adjusted with adjustable feet at the place of operation.

Floo	r	star	nd

Floor stand		1600
Total height	mm	1,600
Labeling height	up to mm	1,400
Projection to center of label	mm	230 - 500
Chassis W x D x H	mm	600 x 860 x 140



#### Printer holder The label printer is fixed on the mounting plate and quick-locked.

# Software



Label software cablabel S3

It includes three functions: • design • print • monitoring

As regards design, cablabel S3 opens up the full potential of the cab devices. The intuitive user interface provides an extensive instruction set, for example different date formats, mathematical or logic functions.

At this, cablabel S3 connects all cab marking systems. First of all you design your label. Only when it comes to printing you have to decide whether the label shall be dispensed on a label printer, a print and apply system or a marking laser system. Do you want your marking system to print labels in stand-alone mode? cablabel S3 supports again. After the label has been designed the program supplies all necessary data to be stored within the printer for stand-alone mode.

cablabel S3 is of modular design and can be adapted to your requirements step by step. To support functions like, for example, native programming with JScript, elements like the JScript viewer are embedded as plug-in. The designer user interface and the JScript code are synchronized in real time. Special functions like the Database Connector or barcode testers can be comfortably integrated.

For further information see www.cab.de/en/cablabel



### 1 Toolbar

Here you can create different objects for your labels.

#### 2 Tabs

For fast navigation between several opened label layouts.

#### 3 Layers

Help to manage different label objects.



#### Stand-alone operation

This operating mode is the ability of the printer to select and print labels even when the device is not connected to a host system.

The label layout is designed with a label software like the cablabel S3 or via direct programming with a text editor on a PC. Label formats, fonts, texts and graphics as well as database contents are stored and read on a SD memory card, a USB memory stick or the internal data storage IFFS.

Only variable data are sent to the printer via a keyboard, barcode scanner, weighing systems or other host computers. These data are recalled from the host via Database Connector and printed.

#### 4 Designer

Streamlined design by WYSIWYG display of the label.

#### 5 Printer spooler

Monitors all print jobs and shows status of printers.

#### 6 Drivers

With integrated hardware drivers you can manage settings and communication with devices.



# **Printer drivers**

For printer control with a software other than cablabel S3 cab provides drivers in 32/64 bit for operating systems Windows Vista, Mac OS 10.6 (or newer) and Linux with CUPS 1.2.



### WHQL certified Windows<sup>®1)</sup> printer drivers

Our printer drivers are certified and signed by Microsoft. They ensure optimum stability on your Windows operating system.



### Apple Mac OS X<sup>°2)</sup> driver

We provide a CUPS-based printer driver for programs using Mac OS X.



### Linux drivers

Linux drivers are based on CUPS.

Printer drivers are available on the DVD delivered with your printer and for free download at www.cab.de/en/support

# Programming



### JScript

To control your printer we have developed the embedded programming language JScript. The programming manual for free download at www.cab.de/en



#### abc Basic Compiler

In addition to JScript and as an integral firmware element the abc Basic Compiler allows advanced programming of the printer before the data are sent to editing for printout. In this way, for example external printer languages can be replaced without interfering in the current print job. Or you integrate data from other systems like a scale, a barcode scanner or PLC.

### Integration



### SAP Printer Vendor Program

As a silver level partner in SAP's Printer Vendor Program cab has developed the replace method allowing easy control of cab printers with SAPScript from SAP R/3. At this, the host system only sends variable data to the printer. Graphics and fonts that priorly have been stored locally (IFFS, SD memory card, etc.) are merged.



<sup>1)</sup> Windows is a registered trademark of Microsoft Corporation.

<sup>2)</sup> MAC OS X is a registered trademark of Apple Computer, Inc.

<sup>3)</sup> In preparation



#### **Database Connector**

In stand-alone mode with network connection this program allows the printer to directly access data from a central ODBC- or OLEDB-ready database and have this data printed on the label. Simultaneously with the printing process, data can be rewritten to the database.



# **Administration**



#### **Configuration in intranet and Internet**

The HTTP and FTP server integrated in the printer via standard programs like web browser and FTP clients allows printer monitoring and configuration, firmware updates and memory card administration. The SNMP and SMTP client via email or SNMP datagram sends status, warning and error messages to administrators and users. Time and date are synchronized by a time server.





#### Network Manager<sup>3)</sup>

The Network Manager enables to manage several printers simultaneously within a network. It supports one-stop control, configuration, firmware update, memory card administration, data synchronization and PIN administration.

<ul> <li>cab Network Manager</li> </ul>							10 8 3
Device Tools Options	Rep						
880		An	1.0	12 9			
	10.5	1000100	-	-		Sec	8.0
		Name	Group	Type	Address	Status	Pin
192.160.100.40		Name	Group	Type cab A4+/300	Address 192.158.100.48	Status Ready	Pin
192.168.100.48	1	Name	Group	Type cab A4+/300 cab XC4/300	Address 192,168,100,48 192,168,100,72	Status Ready Ready	Pin
192.168.100.48 192.168.100.54 192.168.100.72		Name	Group	T)pe cab A4+/300 cab XC4/300 cab A5+/300	Address 192 158 100 48 192 158 100 72 192 158 100 80	Status Ready Ready Ready	Pin

### Maintenance









#### Label sensor

The label sensor is unlocked and pulled out with finger pressure for cleaning.

**Print head** The print head can be exchanged in few steps. In general, adjustments and settings are not required.

**Print roller** The print roller can be removed with a screw for cleaning or exchange.

Assembling tool For replacing wear parts or peripheral mounting ONE tool is inserted at the printer ready to hand.

### Service



Well-trained cab service engineers give worldwide support in maintenance and repair. Send your printer to a cab service center or a service partner selected by us. Your device will be checked and repaired within few workdays. If requested, a loan device is offered as a replacement during the time of repair.

You want maintenance and repair to be done in your company? Then make an appointment with our service department.

Contact: phone +49 721 6626 300, service.de@cab.de

# Training



You enhance your knowledge of cab products for an effective use and gain valuable knowledge for the service and repair of the devices. At the Karlsruhe site, we offer training sessions on handling and operation, label design, software tools, printer drivers, programming, database connectivity, as well as for the integration in networks or a higher-level ERP systems. We will be happy to send you detailed information about the current training offering. Of course we also offer tailored trainings to your individual requirements - in Karlsruhe or at your site.

# Product range

# Label printers

Pos.		Part no.	Devices
1.1		5977014	Label printer SQUIX 4.3/200
		5977015	Label printer SQUIX 4.3/300
		5977001	Label printer SQUIX 4/300
		5977002	Label printer SQUIX 4/600
		5977016	Label printer SQUIX 4.3/200P
1.2		5977017	Label printer SQUIX 4.3/300P
1.2		5977004	Label printer SQUIX 4/300P
		5977005	Label printer SQUIX 4/600P
		5977018	Label printer SQUIX 4.3/200M
1.2		5977019	Label printer SQUIX 4.3/300M
1.3		5977010	Label printer SQUIX 4/300M
		5977011	Label printer SQUIX 4/600M
		5977022	Label printer SQUIX 4.3/200MP
1.4		5977023	Label printer SQUIX 4.3/300MP
1.4		5977007	Label printer SQUIX 4/300MP
		5977008	Label printer SQUIX 4/600MP
		Part no.	Special devices
1.5	H	5977xxx.102	Printer with RFID HF, basic and dispensing version with centered material guide Label printer SQUIX x/xxxM-RFID/HF
			Label printer SQUIX x/xxxMP-RFID/HF "x" - choose device from Pos. 1.3/1.4
1.6	H		Printer with RFID UHF, basic and dispensing version with centered material guide
		5977xxx.120	Label printer SQUIX x/xxxM-RFID/UHF Label printer SQUIX x/xxxMP-RFID/UHF "x" - choose device from Pos. 1.3/1.4
1.7		5977xxx.355	Printer with separator, basic version with centered material guide Label printer SQUIX x/xxxMT "x" - choose device from Pos. 1.3

Scope of delivery: Label printer, power cable type E+F, length 1,8 m connecting cable USB, length 1,8 m operator's manual de/en Operator's manual in more than 20 languages configuration manual de/en/fr service manual de/en DVD: spare parts list de/en programming manual en WHQL certified Windows printer drivers for Windows Vista Windows 7 Server 2003 Server 2008 Windows 8 Server 2008 R2 Server 2012 Server 2012 R2 Windows 8.1 Windows 10 Apple Mac OS X drivers de/en/fr Linux drivers de/en/fr Label software cablabel S3 Lite cablabel S3 Viewer Database Connector

### Wear parts

Pos.		Part no.	Print heads
2.1	No. 2 St	5977382.001	Print head 4.3/200
		5977383.001	Print head 4.3/300
		5977444.001	Print head 4/300
		5977380.001	Print head 4/600
		Part no.	Print and rewind assist rollers
2.2		5953700.001	Print roller DRK4-25
		5953701.001	Print roller DRK4-50
		5953702.001	Print roller DRK4-80
		5954180.001	Print roller DRK4-120
		5954183.001	Rewind assist roller RRK4-120
		5954985.001	Print roller DRS4-120

# Accessories

Pos.		Part no.	Extra equipment
2.3		5977339.001	Antistatic brush
2.4		5977590.001	Label sensor 2
2.5		5977530.001	Label sensor 4
2.6	0	5959622.001	Adapter 100
2.7		5977370	SD memory card 8 GB
2.8	4	5977730	USB memory stick 8 GB
2.9		5977731	USB WLAN stick 802.11b/g/n 2.4 GHz + a/n/ac 5 GHz
2.10		5977732	USB Bluetooth adapter
2.11		5978911	Barcode tester for linear and 2D barcodes
		Part no.	Dispensing labels
2.12		5977585	Present sensor PS800
2.13		5977538	Present sensor PS900
2.14	L.	5977735	Present sensor PS1000
2.15	6	5978908.001	Extended peel-off plate DP410
2.16		5978909	Product sensor

Pos.		Part no.	Interfaces
3.1	W.	5977369.001	I/O interface
3.2		5917651	I/O interface connector SUB-D 25 pin
3.3	$\sim$	5948205	Label selection - I/O box
		Part no.	Connecting cable
4.1	<b>O</b>	5550818	Connecting cable RS232 C 9/9 pin, length 3 m
		Part no.	Cutting, perforating, stacking
5.1		5978900	Cutter CU400 with cutter tray
5.2		5978901 5978920	Perforation cutter PCU400/2.5 Perforation cutter PCU400/10
5.3		5978902	Stacker with cutter and base frame ST400
		5xxxxx*	Storage table ST400, label W x H
		Part no.	Rewinding, unwinding labels
6.1		5978903.001	Rewind guide plate RG400
6.2	E.	5978904	External rewinder ER4200
6.3		5978905	External rewinder ER4300
6.4		5978907	External unwinder EU4390
		Part no.	Applicators and dispensing modules
7.1		5976086 5976087 5976088	Applicator S1000-220 Applicator S1000-300 Applicator S1000-400
		5949072	Universal tamp pad A1021 70 x 60
7.2	ALL.	5949075	Universal tamp pad A1021 90 x 90
		59xxxxx* 5977xxx*	Tamp pad A1021 W x H Tamp pad M1021 W x H
		5949076	Universal tamp pad A1321 116 x 102
7.3		5949077	Universal tamp pad A1321 116 x 152
		59xxxx* 5977xxx*	Tamp pad A1321 W x H Tamp pad M1321 W x H

Pos.		Part no.	Applicators and dispensing modules
7.4	ap de	59xxxxx* 5977xxx*	Blow pad A2021 W x H Blow pad M2021 W x H
7.5		59xxxxx* 5977xxx*	Roll-on pad A1411 W x H Roll-on pad M1411 W x H
7.6		5976084	All-around labeler
7.7		5976085	Applicator S3200
7.8		59xxxxx* 5977xxx*	Tamp pad A3200-1100 W x H Tamp pad M3200-1100 W x H
7.9	ap de	59xxxxx* 5977xxx*	Blow pad A3200-2100 W x H Blow pad M3200-2100 W x H
7.10		5976083	Dispensing module S5104
		Part no.	Mounting equipment
8.1		5978910	Mounting plate
8.2		5958365 5965929 5971136	Profile 40 Profile 80 Profile 120
8.3	-	5961203	Base plate 500 x 255
8.4	-	5947400	Floor stand 1600
8.5		5978922	Printer holder
		Part no.	Label software
11.7		5588000 5588001 5588100 5588150 5588151 5588152 5588002 5588105 5588106 5588156 5588156 5588157 In preparation	cablabel S3 Lite cablabel S3 Pro 1 WS cablabel S3 Pro 5 WS cablabel S3 Pro 10 WS cablabel S3 Pro 1 additional licence cablabel S3 Pro 4 additional licences cablabel S3 Print 9 additional licences cablabel S3 Print 1 WS cablabel S3 Print 10 WS cablabel S3 Print 1 additional licence cablabel S3 Print 4 additional licences cablabel S3 Print 9 additional licences cablabel S3 Print 9 additional licences
1110		9009950	Programming manual en, printed copy

\* User specific part no. following request

# **Product overview**

Label printers MACH1/2 in the lower price segment



Label printers A2+ industrial device up to print width 57 mm



Label printers XD4T for double-sided printing



Print modules PX to be integrated in automatic labeling systems



Label dispensers HS/VS for horizontal or vertical dispensing



Label printers MACH4 where little space is available



Label printers SQUIX industrial device up to print width 108 mm



Label printers XC for two-color printing



Labels of more than 400 materials



Labeling heads IXOR to be integrated in labeling machines



Label printers EOS1 desktop device for label rolls up to diameter 155 mm



Label printers A6<sup>+</sup> industrial device up to print width 168 mm



Print and apply systems Hermes+ for automation



Ribbons in wax, resin and resin/wax qualities



Marking lasers FL<sup>+</sup> with output powers 10 to 50 watt



Label printers EOS4 desktop device for label rolls up to diameter 210 mm



Label printers A8<sup>+</sup> industrial device up to print width 216 mm



Print and apply systems Hermes C for two-color printing and applying



Label software cablabel S3 Design, print, monitoring



Laser marking systems for industrial solutions





Headquarters and fabrication in Germany

to <a>

 international

 subsidiaries

There are further 820 distribution partners in more than 80 countries.



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