

screen printing machines

Screen printing machine SD 05

Universally usable screen printing machine with various equipment for flat or rotary printing

e.g. standard version for flat printing: with pneumatic squeegee mechanism PR 01 and adjustment table KO 03 (see picture)



Advantages:

- Latest technology for optimal printing results and consistent quality
- Universally useable (flat and rotary printing)
- Printing speed steplessly adjustable (drive system with controlled DC motors)
- Precise and low maintenance by the use of high-quality guiding elements
- Easy operation and quick set-up of new programs by teach-in-mode
- Adjustment of screen detachment in program mode
- Electronic counter
- Short set-up time due to memory function (25 individual programs)
- Quick and easy cleaning
- High printing performance (depending on operator / automation up to 1800 prints per hour)
- Space-saving and portable due to compact design
- Prepared for automated use

Technical data:

max. printing size (L x W): approx. 300 x 200 mm (DIN A4)

max. space (machine foot to screen): 160 mm / 250 mm (with / without adjustment table KO 03)

max. printing performance: approx. 1800 prints per hour (automated use)

printing mechanism:
 pneumatic squeegee mechanism (separately adjustable)

screen frames:

max. frame height:

Aluminum frame
20 x 20 mm

max. recommended screen size (L x W): approx. 600 x 300 mm
 power supply: 230 V / 50 Hz (Schuko plug)

• power consumption: 250 VA

drive system: controlled DC Motors
 weight: approx. 60 kg

dimensions (L x W x H): approx. 820 x 550 x 785 mm

Control system:

- Manual control unit with text display
- Menu-assisted setting of printing stroke, screen detachment and screen lift up
- Adjustment of screen detachment in steps of 0,1 mm
- Variable printing speed
- Elektronik counter
- Interface for external control (START / STOP) for integration in a production line

RokuPrintGmbHDieselstrasse 22Tel.: 07348 / 98 57 0dialog@rokuprint.comSiebdruckmaschinenD-89160 DornstadtFax: 07348 / 98 57 11www.rokuprint.com



Equipment



PR 01

Pneumatic squeegee mechanism

- with programmable printing axis
- printing and flood speed steplessly adjustable



KO 03

XYR - adjustment table (3-axes coordinate table)

- 2 x linear axes
- 1 x rotation axis
- T-slots for mounting of work piece fixtures

Use: for the fine adjustment of the work piece to the screen

Mounting area: approx. 400 x 180 mm



FS 01

Adjustable side screen holders

- mounted on the printing axis
- alternative to the rear screen holder (standard)

Use: for lateral screen clamping and fine adjustment of the screen during flat printing

max. screen length: approx. 440 mm

max. frame height: 40mm



FS 01-VK

Adjustable side screen holders

- mounted on the printing axis
- screen holder guided on continuous square bar
- alternative to the rear screen holder (standard)

<u>Use:</u> for lateral screen clamping and fine adjustment of the screen during flat printing

max. screen length: approx. 440 mm

max. frame height: 40mm / 20mm (under square bar)

RokuPrint GmbH Siebdruckmaschinen D-89160 Dornstadt

Dieselstrasse 22

Tel.: 07348 / 98 57 0 Fax: 07348 / 98 57 11 dialog@rokuprint.com www.rokuprint.com

Roku Print **SD 05** screen printing machines

Equipment



FS 01-E

Adjustable side screen holders

- mounted on the blue end caps of the printing axis
- screen holder guided on continuous square bar
- alternative to the rear screen holder (standard)

Use: for lateral screen clamping and fine adjustment of the screen during flat printing

max. screen length: approx. 630 mm

max. frame height: 40mm / 20mm (under square bar)



FS 01-R

Adjustable side screen holders

- mounted on moveable rotary printing carriage
- guided in the profile of the printing axis
- alternative to the rear screen holder (standard)

<u>Use:</u> for lateral screen clamping and fine adjustment of the screen during flat or rotary printing

max. screen length: approx. 440 mm (flat printing) / ca.280 mm (rotary printing)

max. frame height: 40mm



SS 01

Side screen holders

- not adjustable
- mounted at the printing axis
- alternative to the rear screen holder (standard)
- only in combination with KO 03

Use: for lateral screen clamping during flat printing

max. screen length: approx. 440 mm

max. frame height: 40mm

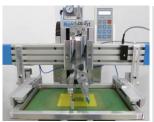
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Dieselstrasse 22

Tel.: 07348 / 98 57 0 Fax: 07348 / 98 57 11 dialog@rokuprint.com www.rokuprint.com



Equipment



PSK 01

Pneumatic screen clamping

- clamping by 4 pneumatic short-stroke cylinders
- activation by hand valve
- 2 x rear stop and 1 x side stop for screen positioning
- only in combination with SS 01, FS 01, FS 01-...

Use: for quick and easy screen positioning and clamping in case of frequent changes

Frame height: by agreement, only one frame height possible



RD 02

Rotary printing system - single-color (without registration)

- incl. adjustable side screen holders FS 01
- rotary printing carriage and squeegee head looking
- without customized rotary printing device

Use: for single color printing of cylindrical or slightly conical parts

max. diameter: approx. 40 mm (printing on whole circumference) or bigger diameter with a max printing length of 120 mm

max. screen length: approx. 280 mm (frame profile 20 x 20 mm)

optional:

- universally adjustable roller block device RB 02
- extended printing axis **DA 1000** for max. diameter approx. 64 mm or max. printing length approx. 192 mm



RB 02

Roller block device

- universally adjustable
- base plate with slot for adjustment of component length
- 2 x roller block with bearings for adjustment of component diameter



<u>Use:</u> universal component holder for RD 02, for single color printing of cylindrical or slightly conical parts

optional:

- customized support rollers KAR 02-KX
- rear stop

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Roku Print screen printing machines

Equipment



KAR 02-KX

Customized support rollers

- made of plastic (POM) or brass
- according to customers specification / drawing

Use: for roller block device RB 02, for single color printing of cylindrical or slightly conical parts



RD 03

Rotary printing system - multi-color (with registration)

- incl. adjustable side screen holders FS 01
- rotary printing carriage and squeegee head looking
- gear and rack drive
- bearing block with rotary printing shaft
- without customized rotary printing device

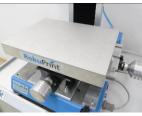
Use: for multi-color printing of cylindrical or slightly conical parts with mechanical registration

max. diameter: approx. 40 mm (printing on whole circumference) or bigger diameter with a max printing length of 120 mm

max. screen length: approx. 280 mm (frame profile 20 x 20 mm)

optional:

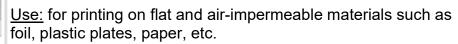
- customized rotary printing device (for bearing block)
- extended printing axis **DA 1000** for max. diameter approx. 64 mm or max. printing length approx. 192 mm



VC 01-VD

Vacuum system

- vacuum plate made of anodized aluminum plate size: (L x W x H): 350 x 260 x 45 mm suction area: 285 x 195 mm
- with drilled holes D = 1,5 mm / pattern 15 mm
- fixing on adjustment table KO 03 or substructure
- vacuum generation by integrated pump (compressed air)
- vacuum activation automatically with the printing cycle, or manually by hand valve



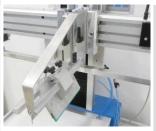


- vacuum plate "micropor" fine-pored VC 01-VD-MP
- vacuum plate "micropor" large-pored VC 01-VD-MPG





Equipment



VR 280

Extended squeegee arm

- total length 280 mm
- with reinforced brace at printing squeegee arm

<u>Use:</u> for larger squeegee width or prints in the front area of the machine



DA 1000

Extended horizontal printing axis

- total length 1000 mm (outer dimension)

Use: for additional moving range during flat or rotary printing

max. screen length flat printing: approx. 620 mm (using FS 01, FS 01-VK, FS 01-R) / approx. 820 mm (using FS 01-E)



AE 30

Slotted end cap

- right end cap with additional slot for reference sensor
- additional moving range of 30 mm

Use: for additional moving range during flat or rotary printing



HA 700

Extended vertical axis

- length of vertical axis 700 mm (only profile)

<u>Use:</u> for printing on high components or more space between screen and component

max. distance: approx. 470 mm (screen to machine foot) / approx. 360 mm (screen to adjustment table KO 03)



TT 01

Pneumatic turning table

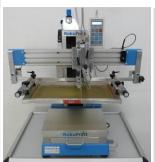
- 2 positions / 180° (forward / backward)
- diameter D = 400 mm
- automatic start by foot switch (printing cycle)

<u>Use:</u> removing component when the other get printed (only for small parts)

Roku Print screen printing machines

SD 05

Special versions



Screen printing machine SD 05 "Laboratory" for flat printing, equipped with:

- **PR 01** pneumatic squeegee mechanism with programable printing axis and squeegee angle scale
- FS 01-E adjustable side screen holders mounted on the blue end caps of the printing axis
- VC 01-VD vacuum system for SD 05 incl. vacuum plate and vacuum pump (automatic activation or manually by hand valve)
- tool drawer

Use: for printing or coating thin materials in laboratory sector



Screen printing machine SD 05 "Auto"

for automated flat printing, externally controllable (START / STOP), electric system in separated control cabinet and compact machine foot, equipped with:

- PR 01 pneumatic squeegee mechanism with programable printing axis
- FS 01-E adjustable side screen holders mounted on the blue end caps of the printing axis

Use: for integration in an automated production line