SD 06

Roku Print
screen printing machines

Screen printing machine SD 06

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

<u>such as standard version for flat printing:</u>
with pneumatic squeegee mechanism **PR 01**, rear screen holder **RSH 01**
and adjustment table **KO 13**

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Advantages:

- Latest technology for optimal printing results and consistent quality
- Universally useable for flat or rotary printing (depending on configuration)
- Printing and flood coater speed continuously and separately adjustable
- Precise and low maintenance by using proprietary guiding elements
- Easy operation and quick set-up of new programs by teach-in-mode or direct entry
- Short set-up time due to memory function (105 individual program)
- Adjustment of screen detachment in semi-automatic operation
- Quick and easy cleaning
- High printing performance
- Space-saving and portable due to compact design

Technical data:

max. printing size (L x W):	approx. 300 x 200 mm
max. space (machine foot to screen):	approx. 300 mm (without adjustment table KO 13)
squeegee mechanism:	pneumatic
screen frames:	aluminum
max. frame profile (W x H):	25 x 25 mm
max. frame size (L x B):	approx. 520 x 380 mm
grid connection:	230 V / 50 Hz (Schuko plug)
max. power consumption:	265 Watt
drive system:	controlled DC motors
weight:	approx. 60 kg
outer dimensions (L x W x H):	ca. 820 x 600 x 910 mm
control system:	display controller 7" LED
touch operation:	resistive
display resolution:	800 x 480 (WGVA)
color resolution	18 Bit (3 x 6 RGB)

New functions

- Position display of X- and Z-axis
- Visualization of all program parameters
- expanded memory (105 individual programs)
- quick position correction (direct value entry)
- password protected screen lock
- many other special functions

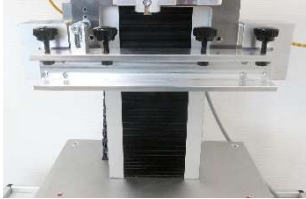# SD 06

RokuPrint
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optional equipment

PR 01

Pneumatic squeegee mechanism
- with programmable printing axis
- printing and flood coater speed continuously and separately adjustable

RSH 01

rear screen holder
- standard screen holder with 4 clamping screw

<u>Application:</u> for rear screen mounting

<u>Screen frame height:</u> 15 - 25 mm

KO 13

XYR adjustment table (3 axes coordinate table)
- 3 x linear axes
- with T-slots 8 mm for mounting component fixtures

<u>Application:</u> for fine adjustment of the component below the screen

<u>Dimensions (L x W x H):</u> 350 x 260 x 30 mm

FS 02-E

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

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

<u>max. screen length:</u> approx. 520 mm

<u>max. screen frame height:</u> 40 mm / 20 mm below square bar

The pictures can maybe deviate because of technical reasons.

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optional equipment

RD 12 (FS 02-R)

Rotary printing system „single-color" without registration
- adjustable side screen holders mounted on rotary printing carriage (FS 02-R) incl. squeegee head locking
- without customized component fixture

Application: for single-color printing of cylindrical or slightly conical parts, convertible to flat printing

max. diameter: approx. 35 mm (printing whole circumference) or bigger diameter with max. motif length approx. 110 mm

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

Optional:
- universally adjustable roller block device **RB 02** (adjustable diameter and component length)
- extended printing axis **DA 1000** for max. diameter approx. 64 mm or max. motif length approx. 200 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

Application: universal component holder for RD 02, for single-color printing of cylindrical or slightly conical parts

Optional:
- customized support rollers **KAR 02-KX**
- rear stopper

KAR 02-KX

customized support rollers
- either made of plastic (POM) or brass
- according to customers specifications / drawing

Application: for roller block device RB 02, for single-color printing of cylindrical or slightly conical parts
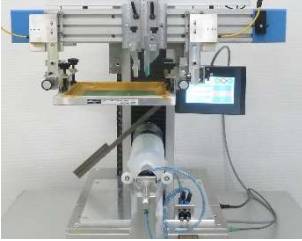
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SD 06

optional equipment

RD 13

Rotary printing system „multi-color" with registration
- adjustable side screen holders mounted on rotary printing carriage (FS 02-R) incl. squeegee head locking
- gear and rack drive
- bearing block with rotary printing shaft
- without customized component fixture

Application: for multi-color printing of cylindrical or slightly conical parts with mechanical registration, convertible to flat printing

max. diameter: approx. 35 mm (printing whole circumference) or bigger diameter with max. motif length approx. 110 mm

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

optional:
- customized component fixture (for bearing block)
- extended printing axis **DA 1000** for max. diameter approx. 64 mm or max. motif length approx. 200 mm

VC 11-VD

Vacuum system SD 06
- vacuum plate made of anodized aluminum (L x W x H) approx. 350 x 260 x 44 mm
- with drilled holes D = 1,5 mm / grid dimension 15 mm
- mounting on adjustment table KO 13 or on base plate
- vacuum generation by integrated pump (compressed air)
- vacuum activation automatically by start of printing cycle with adjustable post sucking time, or manually by hand valve

Application: for printing on flat and air-impermeable materials such as foil, plastic plates, glass plates, paper, etc.
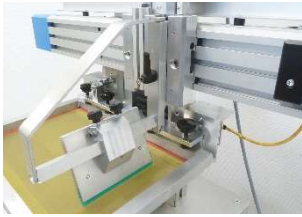
Optional:
- vacuum plate „micropor" fine-pored **VC 11-VD-MP**
- vacuum plate „micropor" large-pored **VC 11-VD-MPG**

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optional equipment

RST 06

Reinforcement brace
- brace mounted on printing squeegee arm

Application: for larger squeegee width up to max. 220 mm, or prints in the front area of the machine

DA 1000

Extended printing axis
- total length L = 1500 mm (outer dimension)

Application: for additional moving range for flat or rotary printing

max. screen length rotary printing: approx. 370 mm

Special extension on request

AE 30

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

Application: for additional moving range for flat or rotary printing

HA 760

extended vertical axis
- length of vertical axis 760 mm (only profile)

Application: for printing on high components, or more space between screen and machine foot

max. distance: approx. 460 mm between screen bottom and machine foot (without adjustment table KO 13)

Special extension on request

The pictures can maybe deviate because of technical reasons.

SD 06

Special versions

Screen printing machine SD 06 „Auto"
for automated flat printing, external control (START / STOP), electric system in separate control cabinet and compact machine foot, equipped with:

- PR 01 pneumatic squeegee mechanism with programmable printing axis
- FS 02-E adjustable side screen holders guided on square bar, mounted on end caps

<u>max. screen length:</u> approx. 520 mm

<u>Application:</u> for integration in an automated production line

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