SD 05

RokuPrint
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)

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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:	Aluminum frame
max. frame height:	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

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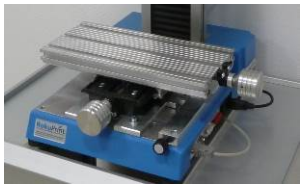
Equipment

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)

Use: 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)

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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)

Use: 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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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

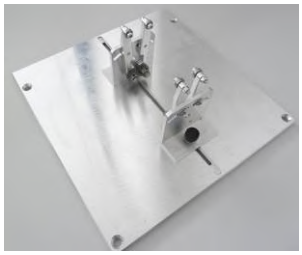
Rotary printing system - single-color (without registration)
- incl. adjustable side screen holders **FS 01**
- rotary printing carriage and squeegee head looking
- without customized rotary printing device

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

Use: 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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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

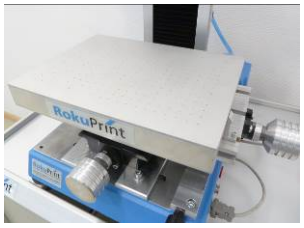
Rotary printing system - multi-color (with registration)
- incl. adjustable side screen holders **FS 01**
- rotary printing carriage and squeegee head looking
- gear and rack drive
- bearing block with rotary printing shaft
- without customized rotary printing device

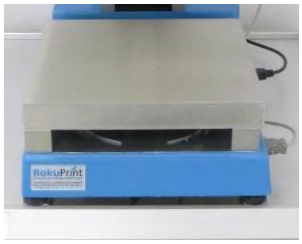
Use: for multi-color printing of cylindrical or slightly conical parts with mechanical registration

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

Use: for printing on flat and air-impermeable materials such as foil, plastic plates, paper, etc.

optional:
- vacuum plate „micropor“ fine-pored **VC 01-VD-MP**
- vacuum plate „micropor“ large-pored **VC 01-VD-MPG**

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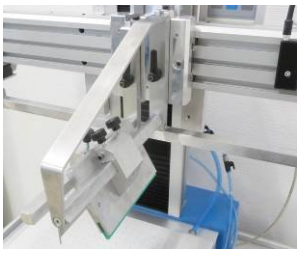
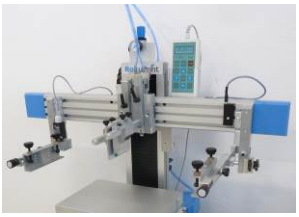
Equipment



VR 280

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

Use: for larger squeegee width or prints in the front area of the machine

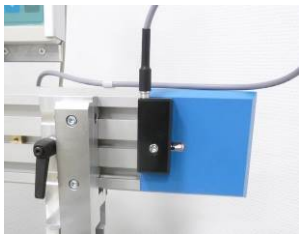


DA 1000

Extended horizontal printing axis
- total length 1000 mm (outer dimension)

Use: for additional moving range during flat or rotary printing

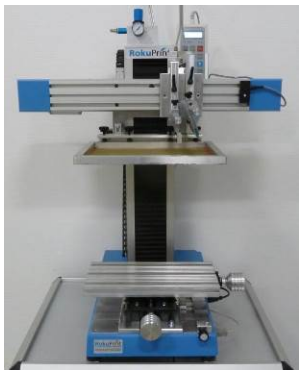
max. screen length flat printing: approx. 620 mm (using FS 01, FS 01-VK, FS 01-R) / approx. 820 mm (using FS 01-E)



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)

Use: 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)

Use: removing component when the other get printed (only for small parts)

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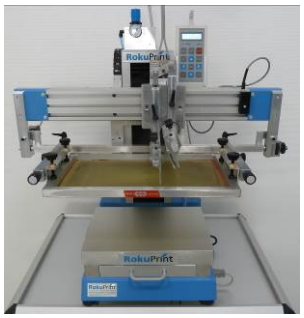
Special versions



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

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