

RP 3.0

RokuPrint

screen printing machines



Screen printing machine RP 3.0

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

such as standard version for flat printing:
with pneumatic squeegee mechanism **PR 02**,
rear screen holder **RSH 02**
and adjustment table **KO 04**

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. 700 x 320 mm
max. space (machine foot to screen):	approx. 270 mm (with adjustment table KO 04)
squeegee mechanism:	pneumatic
screen frames:	aluminum
max. frame profile (W x H):	40 x 40 mm
max. frame size (L x B):	approx. 1000 x 500 mm
grid connection:	230 V / 50 Hz (Schuko plug)
max. power consumption:	325 Watt
drive system:	controlled DC motors
weight:	approx. 120 kg
outer dimensions (L x W x H):	ca. 1320 x 760 x 800 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



perfect prints on objects

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optional equipment



PR 02

Pneumatic squeegee mechanism

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



RSH 02

rear screen holder

- standard screen holder with 6 clamping screws

Application: for rear screen mounting

Screen frame height: 25 - 40 mm



KO 04

XYR adjustment table (3 axes coordinate table)

- 3 x linear axes
- with T-slots 8 mm for mounting component fixtures

Application: for fine adjustment of the component below the screen

Dimensions (L x W x H): 884 x 422 x 32 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)

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

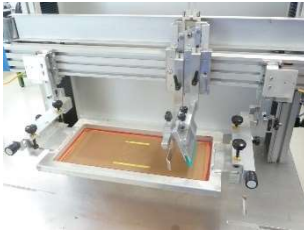
max. screen length: approx. 920 mm

max. screen frame height: 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. 100 mm (printing whole circumference) or bigger diameter with max. motif length approx. 310 mm

max. screen length: approx. 480 mm (frame profile 20 x 20 mm)

Optional:

- universally adjustable roller block device **RB 02** (adjustable diameter and component length)
- extended printing axis **DA 1500** for max. diameter approx. 143 mm or max. motif length approx. 450 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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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. 100 mm (printing whole circumference) or bigger diameter with max. motif length approx. 310 mm

max. screen length: approx. 480 mm (frame profile 20 x 20 mm)

optional:

- customized component fixture (for bearing block)
- extended printing axis **DA 1500** for max. diameter approx. 143 mm or max. motif length approx. 450 mm



VC 21-VD

Vacuum system RP 3.0

- vacuum plate made of anodized aluminum (L x W x H) approx. 850 x 400 x 45 mm
- with drilled holes D = 1,5 mm / grid dimension 15 mm
- mounting on adjustment table KO 04 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.

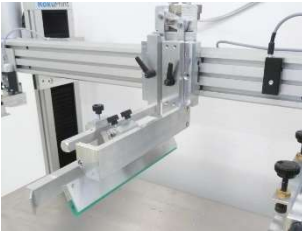
Optional:

- vacuum plate „micropor“ fine-pored **VC 21-VD-MP**
- vacuum plate „micropor“ large-pored **VC 21-VD-MPG**

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optional equipment



VR 280-HD

Reinforced printing squeegee arm

- total length 280 mm
- with reinforcing bracket at printing squeegee side

Application: for larger squeegee width from 300 mm up to max. 400 mm, or prints in the front area of the machine



DA 1500

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. 620 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 970

extended vertical axis

- length of vertical axis 970 mm (only profile)

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

max. distance: approx. 620 mm (screen bottom to machine foot) / 590 mm (screen bottom to adjustment table KO 04)

Special extension on request

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Special versions



Screen printing machine RP 3.0 „Portal“

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

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

Application: for integration in an automated production line

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