



modular | flexible | future-oriented

RADUS[®] SV-360



PERSONALIZATION | CODING | SHEET-FED | CONTINUOUS FORMS

RADUS[®] SV-360

VARIABLE DATA PRINTING MACHINE FOR SHEET-FED AND CONTINUOUS FORMS

Highest Functionality - Lowest Life Cycle Costs

3

PERSONALIZATION | DATAMATRIX | BARCODES | NUMBERS

The RADUS SV-360 machine with high resolution UV-DOD inkjet printing system finds its perfect use when it comes to variable print personalization, serialization and coding on single sheets and flat blanks made of paper and cardboard.

UV-DOD Inkjet Printing System with 360dpi

Modular UV-DOD inkjet heads in combination with the latest LED UV-curing technology allow the high-resolution and accurate imprint of variable data such as texts, numbers, barcodes, 2D codes and graphics on a wide variety of formats from absorbent and non-absorbent substrates.

Due to its modular construction, the machine can be extended with increasing demand up to four DOD inkjet heads. For this, modules with print widths of 72mm and 144mm are available. An optional paper tractor additionally allows the processing of continuous forms and individual sheets on the same system.

RADUS DOD - Layout Editor / Raster Image Processor (RIP)

The under Windows operating print control software RADUS DOD has an user-friendly layout editor and takes over the raster image processing (RIP) of all print data. Variable content such as texts, numbering and common 1D / 2D barcodes can simply be placed via drag & drop on the layout and connected directly to the desired database field.

RADUS CHECK - Verification and Control by Plug & Play

For print data verification and quality control in the production process, the well proven RADUS CHECK camera system can be seamlessly integrated into the print controller. High-resolution CCD camera modules check in a few milliseconds each print for completeness, legibility and data integrity. The integrated control concept enables an intuitive handling, fast job changes and short set-up times.

Pile Sheet Feeder

The vacuum rotation feeder grants a constant and smooth separation, also of sensitive documents. Equipped with an electrically driven stacker platform that can be raised and lowered, a magazine capacity of 650mm is ensured.

Camera Inspection System

Up to four high-resolution CCD camera modules check in a few milliseconds each inkjet print for completeness, legibility and data integrity. For this purpose, different functions like OCR, barcode and measurement are available.

Extension Stations

If necessary, further extension stations can be retrofitted, also at any later date. Various printing and coding systems as well as hologram application systems are available.

Image: Hologram applicator station with HP3 hot stamping heads





SPECIFICATIONS

Functions / Features

- _Feeder and transport for processing individual sheets
- _Basic machine from 1 x UV-DOD inkjet printing system
- _Serialization, variable data print, e.g. texts, numbers, barcodes
- _High-resolution inkjet print systems
- _Ozone free LED UV-curing
- _Data verification & control by camera system (optional)
- _Optional deep pile feeder and delivery - 650mm magazine height
- _Additional transport for continuous forms (optional)
- _Expandability with stations for labeling and hologram application, hot stamping

Basic Machine SV-360 with UV-DOD Inkjet

Controlling	Microprocessor
Operation	Fully automatic
Control desk	Display and keyboard, portable
PC Control	WindowsTM

Transport System

Form width	Sheet-fed up to 520mm Continuous forms up to 550mm incl. sprocket holes
Form length	Sheet-fed up to 650mm (750mm with deep pile feeder) Continuous forms up to 33"
Paper weight	70 - 400g/m ² sheet-fed (up to 1.0mm with pile feeder) 40 - 200g/m ² continuous forms max. 400g/m ² continuous form sets

Print System

Print width	72mm / 144mm
Resolution	360dpi
Print speed	30 / 60m/min
Standard ink	Black (UV)
Curing	LED UV

Layout Editor

Radius DOD layout designer incl. RIP
Database-based variable data printing of numbers and texts (Type-True Fonts), graphics, 1D/2D barcodes, datamatrix, QR

Camera System

Radius CHECK
1 to 4 CCD-Cameras with adjustable aperture and focus, individually programmable check fields for OCR, barcode and measurement
teachable fonts
1D/2D barcodes, datamatrix, QR
LED lighting

Connections

Electrical	1/3 phase 50/60Hz, 2 - 4kW
Connection	depending on configuration
Dimensions from	Length 2700mm x depth 800mm x height 1500mm
Weight	approx. 550kg, depending on configuration

Performance

Single sheets up to 75m/min
Hologram applicator / hot stamping application extension - HP3
Self-adhesive label application extension - LD4

UV-DOD Injet with LED UV Curing

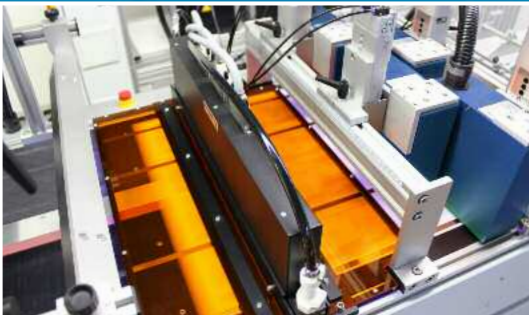
Up to four UV-DOD inkjets can be used in the printing station. Each inkjet can be moved easily across the paper direction of run in a quick adjustment for positioning. In addition, integrated pneumatic lifts allow a quick cleaning of the inkjet without repositioning.

Pile Delivery

The automatic lowered platform of the high pile delivery can be easily set to the sheet format. For attaining lowest downtimes an empty moveable stacker platform replaces the loaded one.

Continuous Forms

An optional paper transport with two strong tractors enables the processing of continuous forms up to a width of 550mm. Changing between sheet-fed and continuous forms transport can be done within a few minutes.



ARNOLD HERZIG GMBH

Experience and Innovation

For over 50 years, our company has manufactured series and customized machines for print processing and has been a long established supplier to governmental and private security printing companies. Innovative and future-oriented concepts, in-house development and the production of highly-efficient and reliable machines explain the high degree of brand awareness for RADUS around the world.

The Arnold Herzig GmbH manufactures machines for the following applications:

Hologram hot stamping, crash numbering and coding, labeling, RFID chip encoding and variable data print personalization by high-resolution UV-DOD inkjet, laser and thermo transfer.

Product lines

RadusCard: Chip encoding and print personalization for RFID smart cards (single cards ISO / ID-1)

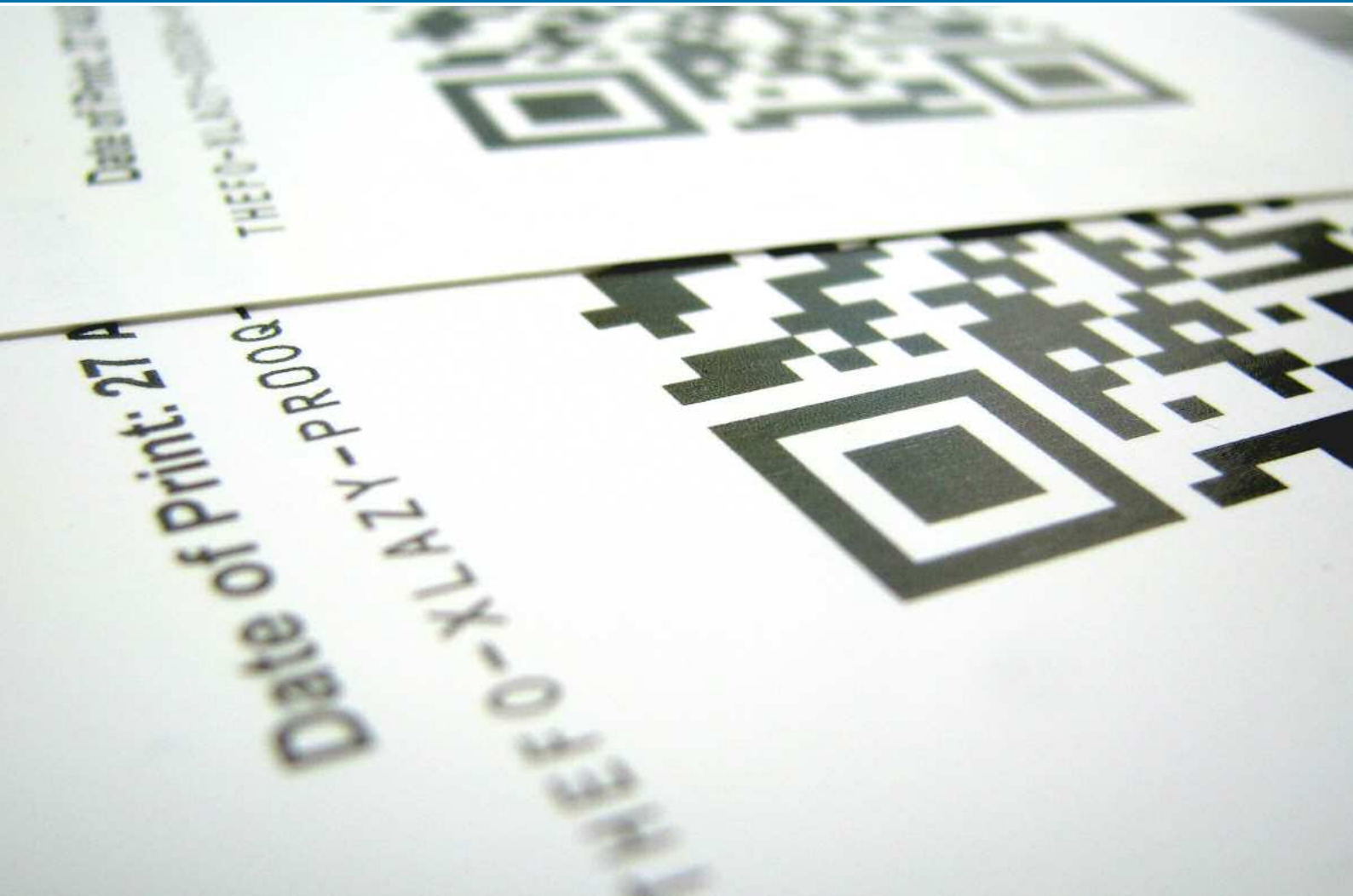
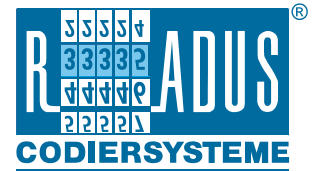
RadusTag: Chip encoding and print personalization for RFID smart labels and tickets, roll-to-roll

CFS series: Continuous forms pack-to-pack and roll-to-roll

SV series: Sheet-fed systems from ticket size to 50x70cm

SU series: Imprinting and numbering heads for use on RADUS systems and as OEM device

HP series: Hologram applicator - hot stamping heads for use on RADUS systems and as OEM device



ARNOLD HERZIG GMBH Radus Codiersysteme®

Am Leveloh 16
45549 Sprockhövel • Germany

Tel.: +49 (0) 2324 – 75 40

Fax: +49 (0) 2324 – 73 272

www.radus.de • sales@radus.de