CODIERSYSTEME

modular | flexible | future-oriented

RADUS® SV-360

NUMBERING | CODING | SHEET-FED | CONTINUOUS FORMS

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RADUS® SV-360
NUMBERING AND CODING SYSTEM FOR SHEET-FED AND CONTINUOUS FORMS

Customized Configurations – Any Time Extendibility

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NUMBERS I BAR CODE I SIGNATURES I TEXTS I LOGOS

The RADUS SV-360 finds its perfect use in terms of fully automatic numbering and coding on pre-printed individual sheets, NCR form sets, event tickets, gift vouchers, certificates etc. but also on high-security documents like bank drafts, cheques, visa and other ID related documents.
Due to its modular construction, the machine can be extended by retrofitting with increasing demand with further numbering and hologram heads as well as label dispensers, also at any later date. An optional paper tractor system additionally allows the processing of continuous forms and single-sheets on the same system.

Numbering and imprinting heads of the series Radus SU

In combination with the RADUS numbering heads of the SU series, numberings in Gothic, CMC 7, E 13B, OCR and customized fonts, as well as barcode, signatures and logos can be printed. Optionally, the SU2 letterpress numbering head is available as computerized CRN variant. (Computer Random Numbering)

Feeding Systems
Various feeder and delivery systems are available, tailored to the production volumes. A vacuum rotation feeder unit is used for small to medium press runs, which pulls sheets in formats of up to 520mm x 650mm from below. The magazine capacity is naturally limited in this case but the feeder can be refilled whilst the machine is running. The processed sheets are delivered into a suitable jogger. The accurately stacked sheets can be removed during operation for further finishing.

Autonomous times
Pile feeders and pile delivery systems can be used for large press runs and for long periods of autonomous operation; these are equipped with electrically driven stacker platforms that can be raised and lowered, each with a magazine capacity of 650 mm. Due to their maximum paper format of 520mm x 750mm, these also support the classic B2 sheets. Like the system's upgrade facility, the pile feeder and pile delivery can also be retrofitted at any time.

Options
To support the flexibility of the modern security printer, a paper tractor system can be attached for processing continuous forms. The operator can change between sheet-fed and continuous forms transport, and this only takes a few minutes. For individual inspection tasks such as gapless sequence of numbers and bar codes, the fully integrated RadusCheck camera system for single or multi-line operation is available.

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.

Vacuum Transport
The vacuumtransport with its sophisticated guidance and the high-resolution paper advance provide a precise positioning under the application heads. Thus a high repetition accuracy is achieved (Resolution 0,1mm).
Image: Working station with 2 x SU4 numbering head

Extension Stations
If necessary, further extension stations can be retrofitted, also at any later date. Various printing systems for numbering, coding and DOD inkjet personalization as well as hologram application systems are available.
Image: Extension station with 2 x HP3 Hologram hot stamping
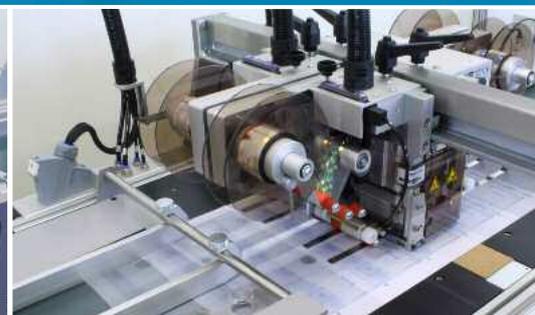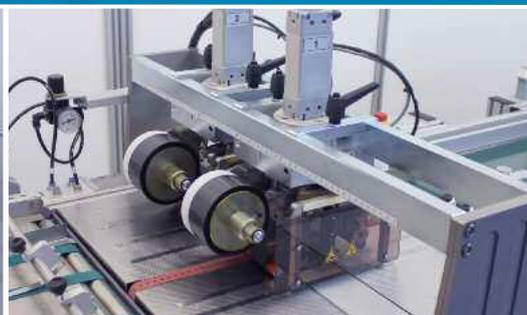
SPECIFICATIONS

Functions

_Transport for individual sheets
_Additional transport for continuous forms (optional)
_Basic version from 1 x numbering head RADUS-SU
_Rotary numbering maschines with standard and custom engravings
_CRN numbering machine for SU2 with Letterpress (optional)
_Crash numbering for NCR form sets
_Expandability with stations for labeling and hologram application
_Optional deep pile feeder and delivery - 650mm magazine height

Basic Model SV-360

Controlling	Microprocessor
Operation	Fully automatic / intermittent
Controll desk	Display and keyboard

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 - 500g/m² sheet-fed (up to 1.0mm with pile feeder)
	40 - 200g/m² continuous forms
	max. 400g/m² continuous form sets

Numbering and Imprinting Heads of the series Radus-SU

SU1	Print head for stamp inks, oil-based
Print carrier	Rotaty numbering machines of steel
Fonts	e.g. gothic as well as custom engravings
SU2	Print head for letterpress inks, security printing inks
Print carrier	Rotary barcode / numbering machines of steel / opt. pre-inker
Fonts	e.g. gothic, OCR-A, OCR-B, barcode, text and logos
SU4	Print head for carbon ribbons- single and multi strike, optional with magnetic, UV fluorescence and indelible ink penetration
Print carrier	Rotary numbering machines of steel or part carrier
Fonts	e.g. gothic, OCR-A, OCR-B, E13 B, CMC7, text and logos

Connections

Electrical	single phase 220-240V, 50/60Hz
Connection	110V optional
Dimensions	Base: length 2700mm x depth 800mm x height 1500mm
Weight	approx. 550kg (depending on configuration)
Performance	Sheet-fed up to 12.000 numberings/h per SU-head
	Continuous forms up to 16.500 numberings/h per SU-head
Options	Personalization extension - DOD Inkjet
	Hologram extension - HP3
	Label application - LD4
	Camera system RadusCheck

SU Numbering Head CRN
The complete numbering head include inking unit respectively foil transport can be moved across the paper direction of run in a quick adjustment for positioning. There is no need for the time consuming repositioning of the inking unit and numbering machines.

Security printing inks and ribbons
Security features such as UV fluorescence enable effective protection against counterfeiting. The authenticity can be checked easily by using a UV lamp.

Continuous Forms
The 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 by the operator 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

made
in
Germany
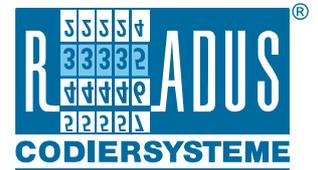
ARNOLD HERZIG GMBH
Radus Codiersysteme®

Am Leveloh 16
45549 Sprockhövel • Germany

Tel.:   +49 (0) 2324 – 75 40
Fax: +49 (0) 2324 – 73 272
www.radus.de • sales@radus.de