

UTAL LICENSE PLATE SOLUTIONS

EMBOSSING STATION





MANUAL EMBOSSING STATION

The **final stage** of license plate production is **personalization at the embossing station**, where each plate is transformed into a **unique, legally valid identity element**.

The personalization process consists of two key steps: **embossing** of the registration number and covering with **hot stamping foil**.

The standard embossing station is equipped with a **hydraulic embossing press**, a **hot stamping machine**, and a **shredder** for the secure permanent invalidation of withdrawn license plates.

LICENSE PLATE PERSONALIZATION

With an annual production **volume exceeding 20 million license plates**, UTAL is a trusted global supplier of all license plate types and formats, tailored to national regulations and customer-specific requirements.

Our portfolio covers standard, special, and custom-size plates, manufactured using advanced retro-reflective materials with **integrated security and identification features**. This ensures **maximum protection against counterfeiting**, full regulatory compliance, and long-term durability, supporting the most demanding government and institutional applications.



THE BASIC SET OF **EQUIPMENT**

Embossing presses



BASIC PARAMETERS	PU 35T-230	PU 50T-230	PU 50T-400
embossing time:	2,2 s	3 s	1,3 s
output	370 plates per hour	350 plates per hour	450 plates per hour
embossing power	35 t (350 kN)	50 t (500 kN)	50 t (500 kN)
working surface	Length 240 x Width 540 x Height 50 [mm]	Length 280 x Width 540 x Height 50 [mm]	Length 280 x Width 540 x Height 50 [mm]
power supply	~ 230 V/50 Hz	~ 230 V/50 Hz	3~400 V/50 Hz
power consumption	1,5 kW	1,5 kW	1,5 kW

Also available: Clapper dies rack and a special table.

Embossing tooling and Accessories

As part of the press equipment, we design and manufacture **dedicated tooling** for specific license plate types, including **embossing frames** matched to the required license plate format, **clapper-dies** for numbers, letters, and special characters in defined fonts and sizes, as well as spacer bars to ensure precise character positioning. This integrated approach guarantees full compatibility with national license plate specifications, high process repeatability, and long-term operational reliability.

Watch video:



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EMBOSSING FRAMES WITH CLAPPER-DIES



HINGED EMBOSSING TOOLS WITH INSERTS



Hot stamping machines



BASIC PARAMETERS	UT ECO	DT ECO/MT ECO	DS ECO
max. output	360 plates per hour	850/360 plates per hour	850 plates per hour
max. foiling width	120 mm	235/180 mm	235 mm
drum overheating protection	✓	✓	✓
foil tension control	✗	✓	✓
power supply	~ 230 V/50 Hz	~ 230 V/50 Hz	~ 230 V/50 Hz
speed controller	✗ / ✓	✓	✓
average power consumption	0,8 kW	1,0 kW	power consumption during steady operation 0,54 kW (power consumption in ECO mode 0,33 kW)

Options:

- "quick start" – reduced warm-up time approx. 6 min.,
- speed controller.

The main advantages:

- **ECO mode** - after 5 min of inactivity, the machine comes into energy saving **Stand By mode**,
- quick heat up time,
- ergonomly improving solutions,
- automatic adjustment of the hot stamping drum position.



Consumables DS ECO

HOT STAMPING FOIL

We also supply hot stamping foil in a **wide range of colors**, as well as custom hot stamping foil **with dedicated inscriptions**, tailored to specific national or customer requirements



The UTAL DS ECO hot-stamping machine is engineered to deliver **class-leading energy efficiency** among comparable solutions available on the market. Advanced energy-saving design features reduce overall power consumption by up to 30% compared to conventional hot stamping machines, helping operators lower operating costs while supporting sustainability objective

DS ECO an ideal choice for customers seeking both operational efficiency and long-term cost optimization.

Utal also provides custom-engineered hot stamping machines tailored to non-standard license plate formats.

Watch video:



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Shredders



BASIC PARAMETERS	ST5-400	ST5-230	ST 14-400
max. efficiency	5.000 plates per hour	4.000 plates per hour	4.000 plates per hour
cutting plates into	5 unequal parts	5 unequal parts	14 unequal parts
container capacity	150 cut plates	150 cut plates	150 cut plates
power supply	3~400 V/50 Hz (1,5 kW)	~230 V/50 Hz (1,5 kW)	3~400 V/50 Hz (4,0 kW)

A unique machine that guarantees immediate scrapping of all types of number plates by cutting them into 5 or 14 unequal pieces. Easy to operate and maintain, it requires no special training and is supplied with all required accessories.

Watch video:



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EMBOSSING STATION WITH **NFC SECURE PLUS** EMBOSSING PRESS

NFC Secure Plus Embossing Press is a dedicated solution developed by UTAL to provide the highest level of control and security in the license plate personalization process. Production orders are **transmitted electronically**, while the system continuously **verifies operator actions** to ensure that only the correct registration number is embossed.

Through automatic recognition of clapper-dies, the press confirms the required character set before each operation. The software actively **prevents operator errors** by blocking incorrect embossing sequences and ensures that **unauthorized license plate production is effectively eliminated**, supporting full traceability and compliance with the most demanding regulatory environments.

NFC SECURE PLUS



BASIC PARAMETERS:

- embossing time: 2,2 seconds,
- embossing force: 35 t (350 kN),
- power supply voltage: ~230 V/50 Hz,
- power consumption: 1,5 kW,
- dimensions:
H 1950 x W 850 x D 620 (850 with racks) mm,
- weight: ca. 450 kg.

INNOVATIVE FEATURES AS STANDARD:

- operating in conjunction with the manufacturer's IT system **ProPlate**,
- NFC control of embossing process (clapper dies recognition),
- adjustable QR code/DMC code/Barcode reader
- operator's touch panel with visualization of embossing process and settings,
- PIN code authentication for operators and administrators,
- remote control and diagnostics of press operations,
- clapper dies with NFC tags,
- ergonomic clapper dies rack.

OPTIONS

- extension rack for clapper dies,
- additional login methods:
 - RFID,
 - magnetic card(s),
 - smart card(s).
- simultaneous dual system for license plate identification: in addition to the QR/DMC/Barcode reader, an extra Barcode reader for the code printed on the back of the license plate.

IT SOLUTIONS

FOR REGISTRATION PLATE PRODUCTION

USP - UTAL Services Platform

The UTAL Services Platform (USP) is a modern SaaS-based centralized platform for **order management** and **secure data exchange** in license plate production and distribution. It connects **license plate manufacturers** with **issuing authorities**, enabling transparent, fully traceable, and compliant workflows.

USP can be deployed in UTAL's cloud or in the customer's cloud to ensure seamless **electronic data flow** across all stakeholders, supporting key functions such as registration number management, order tracking, inventory control, and reporting. Its flexible architecture enables direct machine connectivity, easy integration with customer IT systems, and customization to national requirements.

ProPlate - Embedded Production Management System

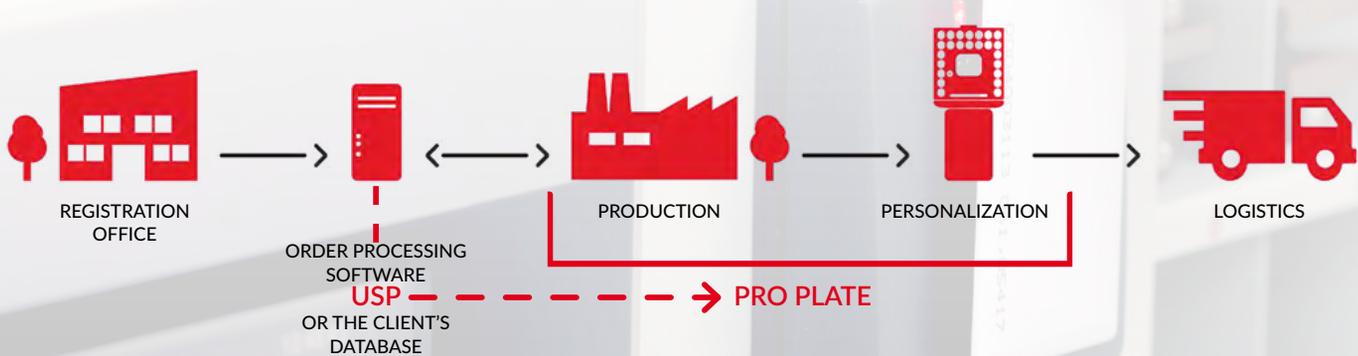
ProPlate is UTAL's proprietary, **machine-integrated production IT system**, providing **secure, automated, and order-driven control of personalization and production processes**.

ProPlate is implemented through the **management of distributed operations via VPN connectivity**. Through its **web-based interface**, authorized users can monitor production, manage orders, and track machine status in real time, ensuring full visibility, control, and operational efficiency.

Integrated directly with UTAL machines, ProPlate receives orders from USP or customer databases (if integrated), supports both centralized and multi-site production, and enables secure mana-

agement of distributed operations via VPN connectivity. Through its **web-based interface**, authorized users can monitor production, manage orders, and track machine status in real time, ensuring full visibility, control, and operational efficiency. Available as SaaS (Software as a Service) on UTAL Cloud or as an on-premises installation on client's IT infrastructure.

ORDERING SYSTEM



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