

**Technical requirements  
to the specialized embossing equipment  
for personalization of the registration plates**

**General technical requirements:**

- Type: hydraulic;
- Dimensions (*Width/Height/Depth*) : maximum 1000 mm/2000 mm/1000 mm;
- Weight : maximum 600 kg;
- Power supply voltage: 220 - 230V, 50Hz;
- Dimensions of stamping table surface (*Width / Depth*): maximum 600 mm x 350 mm (compatible with the registration plates formats up to 520 mm ( $\pm 1$  mm) x 204 mm ( $\pm 1$  mm) ) ;
- Embossing time: 1,5 sec – 2,5 sec;
- Embossing force: 35 - 50 tones;
- Hydraulic system pressure: manually adjustable;
- Scanner barcode 2D (*format barcode 128*) for the identification of the registration plates;
- Interfaces: LAN/Ethernet;
- Indicator light showing the operation status of the equipment;
- Emergency stop button;
- Digital control panel (touchscreen) for viewing and directing the customisation process.

**Functional technical requirements for specialized embossing equipment:**

- Automated system for checking the type of registration plate in accordance with the order data, with the data displayed on the screen;
- Automated system for checking the conformity of registration plate symbols entered in the production cycle;
- User authorisation system (username/password, smart card etc.);
- Closed production cycle registration plate personalisation and registration system (integrated software);
- Sticker (label) printing system;
- The accounting and reporting system of the personalization process.

**Equipping :**

- 3 sets clapperdies with letters for each type of the registration plate as required SM 122:2014;
- 3 sets clapperdies with numbers for each type of the registration plate as required SM 122:2014;
- 2 sets clapperdies for inspection area (zone ecuson) for each type of the registration plate as required SM 122:2014;
- 1 set clapperdies for indicating the validity date: month „01-12”; year „2023-2050”;
- Stamping frame for each type of the registration plate as required SM 122:2014, for fixed and precise positioning of the combination of clapperdies at the embossing step;
- Clapperdies rack.

**Note\*. Access to SM 122:2014 „*Vehicule rutiere. Plăci de înmatriculare pentru autovehicule și remorci*”, including his amendments, as per link:**

**[https://shop.standard.md/ro/search\\_standards?query=sm+122](https://shop.standard.md/ro/search_standards?query=sm+122)**

**Installation and commissioning requirements:**

- The equipment shall be delivered, installed, configured and commissioned by the Supplier;
- Commissioning shall be carried out by the Supplier in the Buyer's premises.;
- The supplier shall provide training for the purchaser's staff;
- All costs of delivery, installation, configuration, training and commissioning shall be included in the offer.

**Warranty period: minimum 12 months from the time of signature of the Transfer and Acceptance Act by the Parties;**

**Submission of the technical passport (*with deciphering parts and components*) and the operating and service Instructions for specialized embossing equipment for personalization of the registration plates.**

**Functional technical requirements for the software product integrated into the specialised embossing equipment for personalising number plates:**

