

**Technická univerzita v Liberci / Technical university of Liberec**

Studentská 1402/2, 461 17 Liberec

**Reg. no.:** 467 47 885

**INVITATION TO TENDERS**

The contracting authority hereby invites contractors to submit a tender in the following simplified sub-limit public contract in proceedings pursuant to Article 12 par. 2 and Article 38 Act no. 137/2006 Coll., Public Procurement Code (hereinafter referred to as the „PPC“). The invitation contains tender documentation.

**THIS INVITATION IS ISSUED ONLY FOR INFORMATION PURPOSES; LEGALLY BINDING IS THE INVITATION IN CZECH LANGUAGE.**

**Name of public contract:** 006\_Ve\_Hot-melt rotogravure

**Internal no. of public contract:** 15/9615/006

**Contracting authority:**

Name: Technická univerzita v Liberci/ Technical univeristy of Liberec

Address: Studentská 1402/2, 461 17 Liberec

Reg. no.: 467 47 885

Person authorized to act on behalf of the authority: RNDr. Ivana Večeřová

**Type of public contract:** Public supply contract.

**Object of the contract and his description:**

**1. Subject of the public procurement**

The subject is a line for laminating and fusing respectively of different roll goods. Lamination will be realized via hot-melt rotogravure coating (dot-coating and full width covering) and applying heat and pressure. Paper, woven and nonwoven fabrics of different types, composition and basis weight will be bonded. The line will consist of two basic elements, i.e. winding and hot-melt coating including nip-rolls, see fig. I.

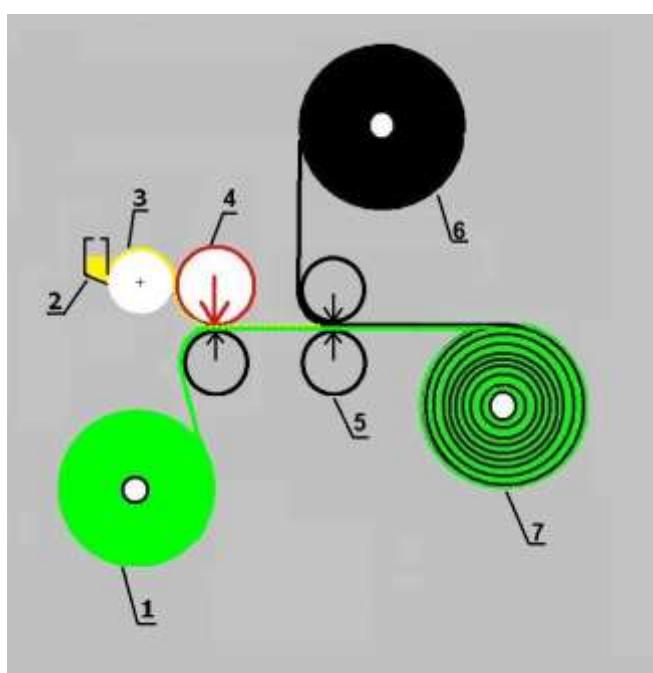


Fig. 1: Unwinding (1, 6); hot-melt batch (2); dosing roller (3); coating roller (4), nip-rollers (5); winding (7). The schematic picture is only illustrative and the design presented hereto is not haven't to be met exactly.

**Quantity:** 1 piece



## Technical parameters

General parameters and limits that must be met

- Power: 400 V 32 A (5 pin plug 32 A) or 230 V 16 A CZE standard
- Available Compressed air: 10 bar, standard quick coupler
- The floor maximum load: 1000 kg/m<sup>2</sup>

### 1) Winding (the elements 1, 6 and 7, see the fig. I)

- The device can unwind at least two rolls in one production run and has one winding for the laminate.
- Working speed: 1 - 10 m/min (or a broader range)
- Working width: width of the rollers 500 (resp. 600) mm (the device can wind and laminate at least 500 mm in width with respect to high quality lamination of webs of 500 mm in width - 600 mm rollers are beneficial but not obligatory)
- Basic controlled parameters: speed [m/min]; tension [N] (or other relevant units of tension control)
- Pneumatic tension control is satisfactory; max. tension: 100 N (or higher)
- Locking core chucks for 76 mm cores are must; a universal/versatile lock fitted to another core diameters is beneficial
- Max roll diameter: 500 mm (or bigger)
- Max roll weight: 100 kg (or higher)

### 2) Hot-melt coater (the elements 2, 3, 4 and 5, see the fig. I)

- Type: hot-melt rotogravure
- The device can laminate roll goods of width in range (at least) 25 - 50 cm when achieving good homogeneity in the direction transversal to the direction of winding. The good homogeneity is defined as deviation in air permeability [l/dm<sup>2</sup>/min]  $\leq$  5 % (regarding to the average value measured in 5 zones). The inhomogeneity of the material before bonding is considered. The pressure of laminating rollers (in the whole pressure range) must be uniform across the whole working width (i.e. min. 500 mm).
- The device can provide hot-melt pre-coating. Thus one web (material) can be coated and wended without lamination and used for further transport, modification and lamination without using another adhesive coating only via heat and pressure application. The pre-coating mustn't cause an undesirable conglutination between layers of a coated web within the winded coil.
- Adhesives: the device can process usual hot-melts (EVA, PE, PP, PA, PES, PUR) including reactive hot-melts (the device must work properly without any gel formation or other premature crosslinking of the air humidity crosslinking adhesives); viscosity range 5000 - 60 000 mPa.s (at least).
- Dosing of the adhesive onto the gravure roller is held via a dosing roller. The adhesive is inserted manually (i.e. batch system - the automatic dosing via melting tank and heated hoses - is not required but beneficial). The device can melt the batch, which can be refilled during the lamination process, or a melting station is provided.
- Coating grammage: 5 - 30 g/m<sup>2</sup> (or a wider range).
- Coating pattern: remains to be specified before the subscription (ratification) of the contract.
- The device allows exchange of coating sleeves and two basic coating patterns are inquired:
  - a) Sleeve No. 1: dot-coating for breathable laminates
  - b) Sleeve No. 2: full cover coating providing breathable coating of given webs, i.e. only top of the surface fibres is coated (pyramid structure pattern recommended)
- Melting temperature range: 50 - 200°C (or wider); hot-melt heating accuracy  $\pm$  2 °C (or better); heating medium - oil.
- Working speed: 1 - 10 m/min (or wider range)
- Nip-rollers gap: 0 - 20 mm (or wider range); increment:  $\leq$  0.1 mm (or smaller)
- The device contains exhaust or allows connection of exhaust of residual fumes.

PLC control and HMI touch panel are included.

The touch panel displays set and current values of controlled parameters (thrust force, gap between rolls, speed and temperature).

Control of the parameters will be allowed at least in the range of the values mentioned above or wider. The same is valid for the steps (increments). E.g. the gap setting accuracy will be  $\leq$  0.1 mm.

The line allows process without heating controlled via the touch panel (e.g. "heating YES/NO").

The device is equipped by standard safety elements and warnings.

The device meets the standard regulations in EU and Czech Republic resp.

Training for at least 1 person is required.



If the contracting authority refers to business names, designations, or names and surnames, specific indication of products and services which is distinctive for a certain person or, where appropriate, for an organisational branch thereof, to patents of inventions, utility models, industrial designs, trademarks or indication of origin in this tender documentation, it allows the use of qualitatively and technically equivalent solutions for the performance of the public contract.

**CPV code:** 42994230-1 Laminators

**Maximal value of the public contract** (excluding VAT): 3 700 000,- CZK

If the tender price should be in a foreign currency (i. e. other than CZK) the tender price shall be converted in CZK for the purposes of evaluation. The appropriate exchange rate determined by the Czech National Bank (Česká národní banka) on the last day of the time limit for the submission of tenders will be applied.

The offer which exceeds the maximum allowable price for the subject of public tender fail to meet specifications of contracting authority and in accordance with § 76 paragraph 1 PPC will be excluded.

**The method of defining the tender price:**

The tenderer is obliged to define the tender price in this structure:  
price excluding VAT,  
VAT,  
price including VAT.

Tender price must include **all costs of performance of the public contract** and must be set as maximal and must not be exceeded.

**Time limit for receipt of tenders:**

A tender can be submitted until 10. 3. 2015 to 10:00.  
Tenders submitted after this time limit will be excluded from the proceedings.

**Tenders must be sent to:**

**In electronic form:** via electronic tool E-ZAK (profile authority website <https://zakazky.tul.cz/>).

**In written form** to the address:

**Technical university of Liberec**  
Právní oddělení - veřejné zakázky  
Studentská 1402/2  
461 17 Liberec  
**Czech Republic**

**Contact point:**

The contact person of the contracting authority is RNDr. Ivana Večeřová, telephone no. +420 485 353 270, email [ivana.vecerova@tul.cz](mailto:ivana.vecerova@tul.cz).

**Qualification criteria and evidence of their fulfillment:**

Contractor demonstrates basic and professional qualification criteria according to Article 53 and 54 Act no. 137/2006, PPC.

Fulfillment of these qualifications is demonstrated by Solemn declaration (Annex no. 2) from which will be apparent that the contractor fulfills qualifications required by contracting authority.

The applicant is required before entering into a contract to submit the originals or certified copies of these documents:

- (a) an extract from the Penal Register,
- (b) a statement of relevant Tax Authority, and a solemn declaration as regards the excise tax,
- (c) a statement of relevant authority or institution,
- (d) an extract from the Company Register, if it is enrolled thereon or an extract from any other analogous register, if it is enrolled thereon.

Documents proving the basic qualification requirements and the extract from the commercial register shall not be older than 90 calendar days before the date of submission of a tender.



### Foreign suppliers

Foreign contractors demonstrate basic and professional qualification criteria according to Article 51 par. 7 PPC.

Information about abovementioned criteria is available on the website of the European Commission <http://ec.europa.eu/market/ecertis/login.do>.

Foreign economic operator shall demonstrate the fulfilment of qualifications in a manner under the legal order in force in the country of registered office, place of business or place of residence thereof, invariably to the extent required by PPC and by the contracting authority. Where particular evidence is not issued under the legal order in force in the country of registered office, place of business or place of residence of a foreign economic operator, the foreign economic operator shall be obligated to demonstrate the fulfilment of such part of qualifications by solemn declaration. Where the obligation, the meeting of which is to be demonstrated in the framework of qualifications, is not established in the country of registered office, place of business or place of residence of a foreign economic operator, it shall take solemn declaration to this effect.

### Time and place of performance of the public contract:

Estimated time of performance: to 31. 12. 2015

Place of performance: Technical University of Liberec, Budova L, Bendlova 1409/7, 461 17 Liberec 1

**Tender period (period in which the tenderer is obliged with its tender):** 120 days.

### Other requirements for the tender:

- the tender must be delivered in this structure:

1. Cover sheet
2. Solemn declaration about basic and professional qualification criteria (annex P2) – signed by authorized person
3. List of statutory bodies, the list of shareholders of a declaration of prohibited agreements (annex P3)
4. Text part of the tender, tender price
5. Contract proposal (annex P4)

- the identification data of the tenderer must correspond to the appropriate legal jurisdiction

- the tenderer must state the name and the contact details (including e-mail) of the person responsible for submitting the tender and the person authorized to act on behalf of the tenderer about the tender

Tenders must be delivered in a properly sealed envelope clearly marked with the contract title „**006\_Ve\_Hot-melt rotogravure**“ and the inscription „**NEOTVÍRAT!**“ (i.e. „**DO NOT OPEN!**“). Tender must be made in one original and one electronic copy on CD/DVD.

Where an economic operator submits a tender by electronic means the data message shall bear valid advanced electronic signature based on a qualified certificate.

One contractor may submit only one tender. The contractor cannot participate in the proceedings more than once, such as joint tender of more contractors submitting another tender or as a subcontractor of another contractor. A subcontractor may be a subcontractor of more contractors.

### Information about variants :

Variants will be accepted: NO

### Tender language:

The tender must be submitted in **English or Czech language**. Annexes P1, P2 and P3 are required only in Czech language, annex P4 – contract is bilingual (Czech and English), contractor has to fill in the text boxes in both languages.

### Contract proposal:

The contract (annex P4) includes business terms and conditions. The tenderer will fill in the text boxes in accordance with his tender and sign it (by person authorized to sign the contract). The tenderer is not entitled to change any of the contract's provisions.

### Business conditions:

Business conditions are included in the contract proposal (annex P4). The contracting authority states for clarity, that warranty must be min. 24 months long and delivery time must be max. 180 days long.



**Payment conditions:**

Payment conditions are included in contract proposal (annex P4).

**Contract award criteria:**

The economic advantageousness of the tender (Article 78 par. 1 letter a) PPC). The weight of the partial evaluation criteria is stated in %. The tender with the highest number of points will be the winner. The point results of each partial evaluation criteria will multiplied with the according weight (i. e. 0,6 and 0,4).

**1) Price - 60 %**

The contracting authority will come to the point result according to this formula:

$$\frac{\text{lowest price in CZK without VAT}}{\text{evaluated price without VAT}} \times 100$$

**2) Technical parameters – 40 percent**

Point gains (according to belowmentioned formula) for these technical parameters will be summed and then multiplied by 0,4.

a) Input power consumption of the line at the maximum load (output) [kWh] – the lower the better

$$\frac{\text{the lowest value of all tenders}}{\text{evaluated value}} \times 10$$

b) The maximum width of the resulting laminate (and the wound material respectively) [mm] – the wider the better

$$\frac{\text{width of the laminate of evaluated tender}}{\text{the best value of all tenders}} \times 20$$

c) The device controls the batch of adhesive material via a sensor and warns the lack of the adhesive

yes 5  
no 0

d) The controlled line speed (production speed) range with respect to the lamination quality requirement [m/min] – the wider the better

$$\frac{\text{the controlled line speed of evaluated tender}}{\text{the best value of all tenders}} \times 5$$

e) The momentum control of the winding system

yes 15  
no 0

f) A universal/versatile lock fitted to core diameters other than 76 mm

yes 10  
no 0



g) Speed of the heating-up of the rollers from 20 °C to 200 °C [min] – the shorter the better

the lowest value of all tenders	x 15
speed of the heating-up of the rollers of evaluated tender	

h) The controlled heating temperature range [°C] – the wider the better

the controlled heating temperature range of evaluated tender	x 20
the best value of all tenders	

#### Additional information

Requests for additional information from the applicants must be received in writing, via electronic tool E-ZAK (profile authority <https://zakazky.tul.cz/>) or e-mail [zakazky@tul.cz](mailto:zakazky@tul.cz). The request must be received by the contracting authority no later than 5 calendar days before the deadline for submission of tenders.

#### Public opening of the tenders

Opening of the tenders will be held in the seat of contracting authority, in Studentská 1402/2, 461 17 Liberec, at the meeting room on the 8th floor of the building IC (information centre) TUL.

All applicants who submitted a tender to the deadline for submission of tenders are entitled to attend public opening. Maximum is one representative of each contractor, who is appropriately authorized to act on behalf of the contractor.

#### Other terms:

- The contracting authority reserves the right in accordance with Article 76 par. 6 PPC **to publish a Notice of decision to exclude a tenderer through publication on the profile of the contracting authority within 5 days of the decision** (web address of the profile: [zakazky.tul.cz](https://zakazky.tul.cz/))
- The contracting authority also reserves the right in accordance with Article 81 par. 4 PPC **to publish a Decision of the selection of the best tender on the profile of the contracting authority within 5 days of the decision**. In that case notice of the selection of the best tender is deemed to have been sent to all candidates.
- The contracting authority is entitled to set aside the award procedure before signing the contract in cases defined in Article 84 APC, no damages will be paid
- Costs of drawing-up a tender will not be reimbursed by the contracting authority. Submitted tenders will not be returned.

In Liberec 2. 2. 2015

RNDr. Ivana Večeřová

Annex no. 1 – Cover sheet

Annex no. 2 - Solemn declaration about basic and professional qualification criteria

Annex no. 3 - List of statutory bodies, the list of shareholders of a declaration of prohibited agreements

Annex no. 4 – Contract proposal in Czech language

*Attachments of this invitation to tenders are downloadable on the profile of the contracting authority on [zakazky.tul.cz](https://zakazky.tul.cz/). Please download it.*

*For insight into these documents it is not needed to be registered in E-ZAK (electronic profile of the contracting authority).*

