

Purchaser	YAVO Sp. o.o. 17 Bawełniana Street 97-400 Bełchatów Tel / fax 44/632 49 17 e-mail: magda.gortat@yavo.com.pl NIP 7691925826, REGON 590772889
The method of procurement	Inquiry drawn up on the basis of "Guidelines for eligibility of expenditure under the European Regional Development Fund, the European Social Fund and the Cohesion Fund for 2014-2020"
Project Title	Automation of the production process to improve competitiveness
Number of recruitment	RPLD.02.03.01-IP.02-10-004 / 15
Description of the order	<p>Subject of the inquiry is</p> <p>PRODUCTION LINE for surgical sutures</p> <p><u>Technical parameters of the line:</u></p> <p>The technological line consists of:</p> <ul style="list-style-type: none"> - The system for handling thread - transport system threads between successive stages must consist of two horizontal toothed belts, powered by a single motor, to which are attached brackets holding the spool of thread. These handles keep the reel in the desired position at the beginning and at the end, to allow further processing of the strand in subsequent stages. The starting position on the belt is constant, securing the rear waist permit must manually adjust the length of thread. - A system thread cutting and thermal protection cut ends - before the stage proper bonding, the thread has to go through the various preparatory processes: <p>* System unwinding strands - spool is fixed in the system so as to ensure smooth and "vibration free" unwinding strands. In the basic configuration, the thread tension is set</p>

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manually to the correct level. Suitable thread tension during the unwinding prevents tension and guarantees the stable length.

* Detection system nodes / knots on a thread - suitable sensor monitors the presence of nodes / knots on the surface of strands that may arise during the production process or can occur during manual cutting and securing the ends of the thread. After detecting faults, the node is automatically cut out, and damaged piece is removed by suction system. Following this intervention, the process continues.

* System to remove static electricity - because each thread has a static charge, a special system must remove it when moving the thread inside the unit.

* Thermal protection system thread ends - this module thread has stiffened end before being cut. The heating device is specially designed U-shaped seals the surface of the thread. The temperature can be adjusted in the range from ambient temperature to 400 degrees Celsius. In the heating device are installed temperature sensors, which ensure its stability. Information about the temperature settings and the course of the welding process are stored in the device memory and serve manufacturing documentation. The sealing device is mounted on an axis in a way that ensures accurate and constant interaction of heat. The thread is reinforced thermally section approx. 8 mm. While the impact of heat must be guaranteed appropriate thread tension.

* Cutting the thread system - the thread is cut by two special metal blades. The cutting angle is approximately 30 degrees to the best angle when inserting the needle thread hole. During this step the thread is held in place by two handles to ensure full stability.

* Station storing thread before the attaching step - cut thread ends are secured by the grippers postponed in place, which will be collected for further processing.

- Supply station device for connection to the needle thread - the part of the apparatus comprises two working areas - the first stage of the capture needle, the second stage –attaching

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to the thread. The components of this module are:

a. needle delivery device - the operation of this device depends on causing vibration of the special tray, on which needles are scattered and the use of the visual system to recognize the type and position of the needles on the tray. Vibrating needles can be dissipated, allowing them to grasp. The visual control allows you to capture the needle in the correct position and to control the number of needles in the tray (if they are not too little or too much). Needles can be added at any time without switching the device off.

b. machine to collect needles and installation of thread - the machine works on 3 linear axes and one rotary axis, so that ensures smooth downloading thread and combining it with a needle. On the basis of information from the visual inspection of the slot grips the needle in the correct position and sets it in the position for fitting, the channel in the direction of the thread.

c. entity to alignment for the attaching of the needle thread and the needle channel - This step consists of several consecutive steps. First, the thread is pre-set smoothed by a gripper that must be adjusted to the diameter of the thread. This adjustment can be made using a micrometer screw or automatically if the device is equipped with this option. Then the needle is positioned relative to the thread ends. The exact position is observed and measured in the dimension of "almost" 3D camera for one set, which collects two shots at two different angles. Setting the needle and thread to each other occurs as a result of fit images and measurements made by the camera. When the position is correct, followed by insertion of a needle thread channel. At this stage not yet reach the needle thread clamp. Measurements in "almost" 3D is made possible by the synchronization of the camera with two mirrors, shutter and two light sources.

- Clamping station - handle axis numerical parallel to the front-end of the transport system receives the thread from the automatic needle

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holder and transports it into the clamping station. This action is synchronized with the movement of the handle positioning location of the thread. After the automatic transfer needle and thread and re-set them in the right positions reaches the first clamp around the needle thread. Crimping tool (stamp) is opened and the gripper needle sets in other positions in order to perform the following terminals (up to 6 repetitions). The number of repetitions of terminals at different angles can be programmed in the module unit. To improve the quality of crimping, crimping tools are mounted on an axis numerical and one controls their strength. The force sensor measures the force clamp in real time during the clamping - These data are also stored in the device memory and are part of the documentation production.

- A system for verifying the strength and durability of the connection needle with thread – there are two methods:

A. Pull test - control the quality of each connection. A holder holds the needle at the specified position, while the second involves the thread with a specific force. The second handle is mounted on an axis numerical equipped with a force sensor. This sensor limits and measures the force used. The strength of the durability test used in the test depends on the type of thread and in accordance with the European Pharmacopoeia ranges from 0.5 to 20 N.

Each clamped suture is checked.

B. Test breaking - This test measures the force, used to break the connection needle with thread. It is also integrated with the device. Breaking strength may be set from 20 to 80 N. This test can be easily programmed in accordance with the needs of the operator after any number of connections (e.g. every 100 crimped sutures). Sutures destroyed during the test are automatically removed - a needle in a sharps container, the thread to the suction system.

- The system of storage of the finished product into suitable containers - finished products are

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	<p>stored in special stainless steel containers specially designed for this purpose. Two such containers are installed next to each other so that they can be emptied when the machine is running. Moreover, each container is divided in to separate the combined strands in bundles determined by counting the number of the operator.</p> <p>The entire system must be integrated with the computer system management for the PC. The system must manage and control entire machine, processes and automation. The minimum warranty period of 12 months. The device must be new.</p>
<p>Terms of delivery</p>	<p>It is required to offer price included the cost of providing the line, its installation and commissioning at the Purchaser in Bełchatów, 17 Bawełniana Street</p>
<p>Conditions for participation in the proceedings</p>	<p>From participating in the proceedings are excluded entities associated with personality or equity of the purchaser. Through capital or personal related understand the interactions between the contracting authority or persons authorized to enter into commitments on behalf of the customer or persons performing on behalf of the contracting activities associated with the preparation and the procedure for selecting the contractor and the contractor, in particular by: a) participation in the company as a partner partnership or partnership, b) the possession of at least 10% of shares, c) the functions of a member of the supervisory or management proxy, attorney, d) remaining married in consanguinity or affinity in a straight line relationship the second degree or affinity of the second degree in the collateral line or by adoption, guardianship or custody. <u>We ask to join prepared for your offer REPRESENTATIONS about no connections in accordance with the above-cited definition. STATEMENTS form has been attached to this question (Annex No. 3).</u></p>

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Description of the method of calculating the price	<p>The price includes the value of the Polish zloty, which the Purchaser is obliged to pay the supplier. It should be given net price and gross. It is allowed to give price in a currency other than Polish zloty. In this case, the price of Polish zloty will be calculated by multiplying the amount given currency by the NBP average rate of drafting the offer.</p>
Selection criteria	<p>The condition of consideration provided the offer is absolute compliance of technical parameters of the technical requirements. <u>We ask to join prepared for your offer STATEMENTS compliance with the offered equipment specified in this query parameters and technical requirements (Annex No. 2). STATEMENTS form has been attached to this question.</u> After meeting above mentioned, as the only criterion for selection is the price. Price = 100%. The formula for calculating points Lowest price / price of analyzed offer x 100 = Number of points</p>
The method of preparation and delivery of tender offers	<p>Offer should be prepared in Polish or in English or in German, at least attached to this query tender form (Annex No. 1), specifying besides the price, term of the contract, the validity of the offer (the required minimum 30 days), warranty and other important from the point of view of the order. It is allowed to attach to the completed form extensive offer, subject to absolute compliance of the information contained on the offer form with the information contained in the attached offer. Offer in writing should be submitted * By mail to: Company YAVO Sp. o.o. 17 Baweniana Street 97-400 Bełchatów or * E-mail: magda.gortat@yavo.com.pl or * Person's address</p>
Time limit for receipt of tenders	10 th of August 2016 - 16.00 hours

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<p>Date of opening of tenders and selection of suppliers</p>	<p>10th of June 2016 Supplier will be informed about the choice of his offer immediately after the selection. In addition, information will be posted at the website www.yavo.com.pl and at its premises. Deadline for placing an order or signing a contract will be established with the bidder after the results of the procedure. Any questions should be addressed to: magda.gortat@yavo.com.pl Contact person in matters of question is Ms. Magdalena Gortat tel. +48 601 334 958</p>
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We reserve the right to withdraw from the selection of bids without cause.

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TENDER FORM

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Place and date

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Name and address of the bidder

YAVO Sp. o.o.

17 Bawełniana Street

97-400 Bełchatów

OFFER

Referring to the inquiry concerning the delivery

LINE FOR PRODUCTION surgical sutures

We present an offer:

1	Net Price	
2	Gross price	
3	The validity of the offer	
4	Deadline	
5	Warranty	
6	Other relevant information	

We declare that the price will not change during the execution of the contract and includes all costs related to the implementation of the contract.

Contact person on offer

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Signature and stamp of tenderer

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STATEMENT

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Place and date

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Name and address of the bidder

YAVO Sp. o.o.

17 Bawełniana Street

97-400 Bełchatów

We declare compliance with the offered equipment specified in this query parameters and technical requirements.

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Signature and stamp of tenderer

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STATEMENT

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Place and date

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Name and address of the bidder

YAVO Sp. o.o.

17 Bawełniana Street

97-400 Bełchatów

We declare a lack of personal relationships and / or capital between the Employer of the Bidder.

Through capital ties or personal understand the interactions between the contracting authority or persons authorized to enter into commitments on behalf of the customer or persons performing on behalf of the contracting activities associated with the preparation and the procedure for selecting the contractor and the contractor, in particular by: a) participation in the company as a partner partnership or partnership, b) the possession of at least 10% of shares, c) the functions of a member of the supervisory or management proxy, attorney, d) remaining married in consanguinity or affinity in a straight line relationship the second degree or affinity of the second degree in the collateral line or by adoption, guardianship or custody.

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Signature and stamp of tenderer

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