

# Indicative proposal

## Ultrasonic Inspection Scanner



**2020**

ECAZA, S.R.O., PREŠOVSKÁ 125/24, 949 01 NITRA, SLOVAKIA

CP 038/2020/00

## INDICATIVE PROPOSAL

### Ultrasonic Inspection Scanner

#### A. Introduction

Dear customer,

This is an indicative proposal on supply of equipment, as described by the technical requirements in market consultation 45842 "Supply of Ultrasonic Inspection Scanner". (hereinafter referred to as Requirements)

#### Specification of the offer scope

#### General overview

The delivery will consist of these components:

- modular ultrasonic scanner including accessories, spare parts, tools, and transport box
- scanner controller
- workstation with Windows 10
- control software
- interconnection cables
- user manuals
- user instruction

All components of delivery will comply with Requirements in terms of functionality, extent, and quantity. Some components need more specific description which follows:

#### Ultrasonic Scanner

Ultrasonic scanner will be based on modular concept. Variable configurations dedicated for making inspection of various geometries may be achieved using the same main modules. Very reliable, rugged and in the field-tested modules will be used. The construction of modules and auxiliary parts allows quick modification of scanner to fit it for desired purpose.

Main modules are:

- Motor modules
- Connecting gears and couplings
- Magnetic wheels
- Y-modules
- Probe rails
- Sliding probe holders
- Probe fittings (forks)
- Wheel encoder

Scanner can be configured as two axis (XY) scanner or single axis (X) scanner. The scanner will be a magnetic type, i.e., will be attached to a surface by strong magnetic wheels, which can be easily detached from the surface.

For applications on austenitic pipes, it will be possible to modify scanner to chain & belt guided scanner, using the same main modules.

### **Scanner controller and software**

Depending on customer needs and preferences, several options to control and interface the scanner and ultrasonic instrument are available, all of them complying with Requirements.

Scanner will be controlled using Zetec motor controller. This is interfaced to Dynaray Lite and is entirely integrated into Zetec system and software Ultravision 3. The same computer and software will be used to run data acquisition with Dynaray Lite and to control the scanner. There are several options:

- battery operated motor controller ZMC-4
- 220V operated motor controller ZMC-2
- Ultravision 3 software included in delivery  
Ultravision 3 software not included in delivery, customer may prefer to use his UV3 license

### **User instruction**

Two-day instruction - training will be given for two participants, in premises of provider.

### **Consultancies**

Provider offers to clarify with person responsible for inspections necessary technical details, such as:

- geometry of components to be tested
- accessibility problems

The consultancies could help to fit delivery to purpose and thus to increase its technical value.

### **Technical support**

first deployment inspection with Ultrasonic Inspection Scanner. We will agree on the scope of this deployment with the customer and the inspection implementer.

### **Equipment tests at the manufacturer and customer:**

a) Pre-complex tests at the manufacturer.

According to the developed test manual, we will perform pre-complex testing (Field Acceptance Test) on the mockup (test stand). The results of Pre-complex tests will be documented by protocols that should be part of the submitted accompanying technical documentation.

b) Complex tests at the customer

Complex tests (Site Acceptance Tests) will be carried out at the customer's workplace, determined by the customer. According to the prepared test manual, we will carry out the SATs, which will be commented

on and approved by the customer. The results of Complex tests will be documented by protocols that should be part of the submitted accompanying technical documentation. Upon completing the FAT and SATs, the customer will take over the device by protocol.

### Accompanying technical documentation

We will deliver the documentation in printed copies (2 pcs), in electronic form on a CD (1 pcs), the documentation will be in English. The prepared and delivered accompanying technical documentation represents a complete set of documents, which contains the following:

- The Program of Pre-complex and Complex tests
- Quality documentation (Certificates of conformity, Certificate of quality)
- User manuals
- Originals of all manuals from standard deliveries (1 pcs)

### B. Customer consideration

### C. Place and date of performance

- Dates of performance:
  - according to the offer scope specification until 12/2021

We will make delivery within 12 months after the contract signing.
- Place of delivery:
  - Premises of Ecaza, s.r.o.
  - Premises of NPP Kozloduy

### D. Fulfillment

The result of the subject of performance will be covered by a protocol and handed over to the customer responsible for technical matters (documents in electronic and printed form).

**Warranty period – 24 months.**

### E. Prices

Item No.	Description and technical features of the offered product	Unit	Quantity	Unit price excluding VAT	Total price excluding VAT	Currency
1	Ultrasonic scanner, cables, accessories, tools, included controller, workstation, and software not included	set	1	259 200	259 200	EUR
2	Technical support	pcs	1	8 900	8 900	EUR

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Item No.	Description and technical features of the offered product	Unit	Quantity	Unit price excluding VAT	Total price excluding VAT	Currency
3	Training	pcs	1	6 200	6 200	EUR
4	FAT and SAT	pcs	1	8 000	8 000	EUR
5	Documentation	set	1	4 900	4 900	EUR
	Option					
6	Motor controller ZMC-4 + workstation	pcs	1	33 500		EUR
7	Motor controller ZMC-2 + workstation	pcs	1	47 200		EUR
8	Ultravision 3 basic	pcs	1	38 635		EUR
<b>Total without options</b>					<b>287 200</b>	<b>EUR</b>

#### F. The validity of the offer

The offer is valid until 31.02.2021.

#### G. Contact

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