

### Specificații tehnice (F4.1)

[Acest tabel va fi completat de către ofertant în coloanele 3, 4, 5, 7, iar de către autoritatea contractantă – în coloanele 1, 2, 6, 8]

Numărul procedurii de achiziție 21044364 din 17.09.2021

Denumirea procedurii de achiziție: Cererea ofertelor de prețuri

Cod CPV	Denumirea bunurilor/serviciilor	Modelul articolului	Țara de origine	Producele	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standard de referință
1	2	3	4	5	6	7	8
38436500-5	Concasor de laborator	A092	Italia	MATEST	<p>Destinație: Proiectat pentru a sfărma orice fel de material indiferent de duritatea acestuia. Potrivit pentru a pregăti materialul care urmează să fie redus la pulbere.</p> <p>Materialele componentelor: Structura din fontă, arbore din oțel, falci din mangan.</p> <p>Deschiderea falcilor: Deschiderea falcilor este reglată de la 2-18mm.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea în funcțiune</p>	<p>Destinație: Proiectat pentru a sfărma orice fel de material indiferent de duritatea acestuia. Potrivit pentru a pregăti materialul care urmează să fie redus la pulbere.</p> <p>Materialele componentelor: Structura din fontă, arbore din oțel, falci din mangan.</p> <p>Deschiderea falcilor: Deschiderea falcilor este reglată de la 2-18mm.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea în funcțiune</p>	
38436500-5	Moara Mecanica	A091-02	Italia	MATEST	<p>Destinație: Proiectat pentru a reduce probe de materiale granulometrice de la 5 mm până la pulbere cum ar fi:</p>	<p>Destinație: Proiectat pentru a reduce probe de materiale granulometrice de la 5 mm până la pulbere cum ar fi: ciment</p>	



					<p>ciment, pietre, roci, materiale dure, plastic.</p> <p>Dotari: temporizator incorporat; Carcasa din otel pentru reducerea zgomotului; Microintrerupator, conform Directivei CE privind siguranta.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	<p>pietre, roci, materiale dure, plastic.</p> <p>Dotari: temporizator incorporat; Carcasa din otel pentru reducerea zgomotului; Microintrerupator, conform Directivei CE privind siguranta.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	
38436500-5	Mixer pentru materiale uscate	A093/A093-11	Italia	MATEST	<p>Destinatie: Conceput pentru a amesteca materiale uscate precum: pulberi, ciment, gips si materiale granulometrice. In scurt timp asigura un amestec omogen si perfect.</p> <p>Detalii constructive: Format din doua conure asimetrice opuse si un collector cu temporizator.</p> <p>Volum con minim 30 litri.</p> <p>Capacitate de mixare minim 10 kg.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	<p>Destinatie: Conceput pentru a amesteca materiale uscate precum: pulberi, ciment, gips si materiale granulometrice. In scurt timp asigura un amestec omogen si perfect.</p> <p>Detalii constructive: Format din doua conure asimetrice opuse si un collector cu temporizator.</p> <p>Volum con minim 30 litri.</p> <p>Capacitate de mixare minim 10 kg.</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	
38436500-5	Aparat de sitare uscat/umed	A059-02-KIT SV606/SV614/SV622/SV630/SV638/	Italia	MATEST	<p>Destinatie: Aparatul de sitare este activat de impulsuri electromagnetice si datorita</p>	<p>Destinatie: Aparatul de sitare este activat de impulsuri electromagnetice si datorita</p>	



		SV646/SV736/SV744/SV752/SV757/SV760/ SV763/SV765/SV768/SV473/SV474			<p>actiunii triple vibrationale( vertical, laterale si rotationale) este recomandat sa fie efectuat teste de cernere unde precizia si performanta sunt importante si unde sunt necesare utilizarii continue si intense. Prin urmare, acestea sunt recomandate pentru teste precise de cernere, si pentru materiale fine.</p> <p>SITE: conform standard EN 932-5, ISO 3310-1. In set: minim 12 site (0.063-63mm)</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	<p>actiunii triple vibrationale( vertical, laterale si rotationale) este recomandat sa fie efectuat teste de cernere unde precizia si performanta sunt importante si unde sunt necesare utilizarii continue si intense. Prin urmare, acestea sunt recomandate pentru teste precise de cernere, si pentru materiale fine.</p> <p>SITE: conform standard EN 932-5, ISO 3310-1. In set 300mm: 0.063mm 1 buc 0.125mm 1 buc 0.250mm 1 buc 0.500mm 1 buc 1.00mm 1 buc 2.00mm 1 buc 4.00mm 1 buc 8.00mm 1 buc 16.00mm 1 buc 1.00mm 1 buc 25.00mm 1 buc 31.50mm 1 buc 40.00mm 1 buc 50.00mm 1 buc 63mm 1 buc Capac + collector 300mm Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	
38436500-5	Echipamente micro-coring	C377 C377-01	Italia	MATEST	<p>Destinatie: Folosit pentru extragerea unei probe micro-carotaj dintr-o piatra/roca, metoda nedistructiva, deoarece permite analize si evaluari</p>	<p>Destinatie: Folosit pentru extragerea unei probe micro-carotaj dintr-o piatra/roca, metoda nedistructiva, deoarece permite analize si evaluari</p>	





					<p>precise(rezistenta la compresiune, etc.) fara a provoca daune, avand in vedere dimensiunea gaurii foarte mici care poate fi in cele din urma umplute cu mortar.</p> <p>Dotari: Burghiu electric 230V, monofazic, 50Hz  Ansamblu ghidaj cu flansa  Masca de foraj  Burghiu diamantat pentru miezuri diametru 28x100mm  Burghiu diamantat pentru miezuri diametru 28x200mm  2 clesti autoblocanti pentru a se potrivi ca ghidaj  Rezervor pres apa pompa pedala</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	<p>precise(rezistenta la compresiune, etc.) fara a provoca daune, avand in vedere dimensiunea gaurii foarte mici care poate fi in cele din urma umplute cu mortar.</p> <p>Dotari: Burghiu electric 230V, monofazic, 50Hz  Ansamblu ghidaj cu flansa  Masca de foraj  Burghiu diamantat pentru miezuri diametru 28x100mm  Burghiu diamantat pentru miezuri diametru 28x200mm  2 clesti autoblocanti pentru a se potrivi ca ghidaj  Rezervor pres apa pompa pedala</p> <p>Alimentare 220V</p> <p>Garantie minim 12 luni de la punerea in functiune.</p>	
<b>TOTAL</b>							

Semnat: \_\_\_\_\_ Numele, Prenumele: Ciornei Andrei În calitate de: Administrator

Ofertantul: Tecnos Quality SRL Adresa: Calea Iesilor nr. 10, Chisinau



## A092 LABORATORY JAWS CRUSHER

STANDARDS: ASTM C289 | UNE 83 120  
Comparable to EN 933-3, EN 933-6

Designed to crush any sort of material, also the hardest. The structure is made of cast iron, the shaft of rectified steel, and the jaws of manganese.

Jaws opening is regulated from 2 to 18 mm by a wedge.

Jaw size: 100x60 mm

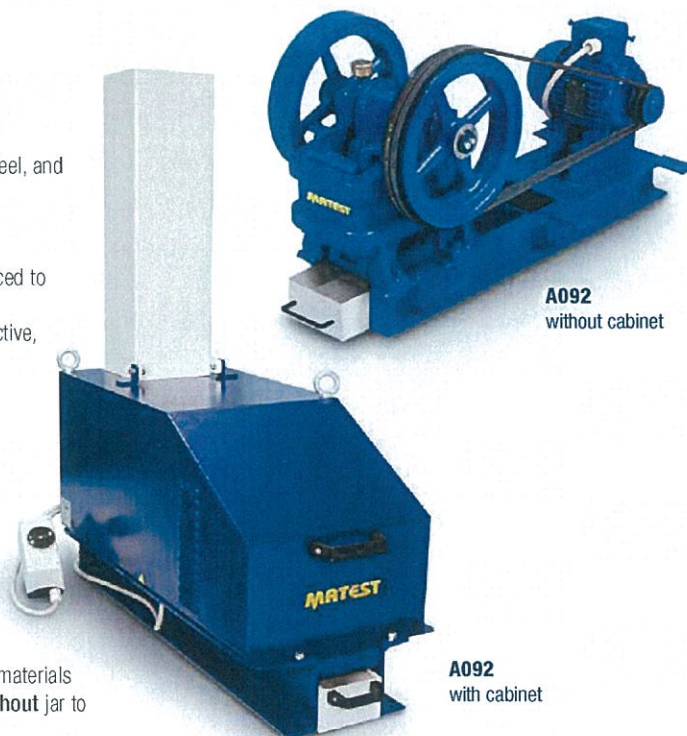
The crusher is suitable to prepare the material to be reduced to powder with the jar mill A091 serie.

Complete with steel cabinet conforming to CE safety Directive, separate on/off switch and collecting pan.

**Power supply:** 230V 50Hz 1ph 1100W

**Dimensions:** 400x900x1170 mm

**Weight:** 130 kg approx.



**A092**  
without cabinet

**A092**  
with cabinet

## A091-10 JAR MILL CAPACITY 300 G | 1000 G

Designed to reduce from 5 mm to powder granulometric materials like: cement, stones, rocks, hard materials. Supplied **without** jar to be ordered separately (see needed accessory).

This mill can accept jars having capacity 300 cc. or capacity 1000 cc.

Jar is in prokorund material with relevant hard porcelain spheres.

The noise reduction steel cabinet and microswitch are conforming to CE safety Directive.

Built in timer. Rpm: about 400

**It can be used only for wet tests.**

**Power supply:** 230V 50Hz 1ph 750W

**Dimensions:** 350x710x410 mm

**Weight:** 50 kg approx.

**A091-10 + A091-11**



Jars Detail

### NEEDED ACCESSORY

**A091-11** JAR, 300 cc. capacity complete with spheres.

or:

**A091-12** JAR, 1000 cc. capacity, complete with spheres.

## A091-02 JAR MILL CAPACITY 1500 CC.

Same as mod. A091-10, but with jar capacity of 1500 cc.

Supplied **complete** with jar and spheres.

## A093 DRY MIXER

Designed to mix dry materials like: powders, cement, gypsum and granulometric materials. In a short time it assures a perfect and homogeneous mixture. The mixer consists of two opposite asymmetric cones and a pan for collecting the mixed material. Supplied complete with timer. The volume of the cone is 30 litres.

Mixing capacity: 10 kg of material

Speed rotation: 30 rpm

It cannot be sold on CE markets without security cabinet (see mod. A093-11)

**Power supply:** 230V 50Hz 1ph 750W

**Dimensions:** 700x700x1200 mm

**Weight:** 130 kg approx.

### ACCESSORY

#### A093-11

SECURITY CABINET, manufactured from sheet steel, lined with sound proofing-material for noise reduction, conforming to CE Safety Directive.

**Dimensions:**

980x1070x1190 mm

**Weight:** 100 kg approx.



**A093**

**MATEST**





## ELECTROMAGNETIC SIEVE SHAKERS

STANDARDS: EN 932-5 | ISO 3310-1

These Sieve Shakers are activated by electromagnetic impulses and thanks to the triple vibrating action (vertical, lateral and rotational) they are recommended to perform sieving tests where high precision and performance are important, and where continual and intense uses are required. Therefore they are suggested for accurate sieving tests, on fine materials too.

These Electromagnetic Shakers are of simple and sturdy construction, they can hold up to 10 sieves and are also suitable for wet sieving tests (accessory mod. A046, A047).

**Power supply:** 230V 50Hz 1ph 450/750W

## MAIN FEATURES

Triple vibrating action:

- Vertical
- Lateral
- Rotational

Digital microprocessor control panel can adjust:

- Timer 0-999 minutes
- Vibration intensity
- Continuous or intermittent vibrating action
- Pause between vibrations (indicated for fine material sieving)
- The control panel can be wall fixed or placed on a bench



A059-01 КП



## A059-02 KIT

Model	Dimensions sieves Ø	Dimensions mm	Weight kg
A059-01 KIT	200 mm - 8"	320x380x850	40 approx.
A059-02 KIT	200 - 250 - 300 - 315 mm - 8" - 12"	380x440x1080	65 "
A059-03 KIT	200 - 250 - 300 - 315 - 350 - 400 mm - 8" - 12"	430x460x1150	80 "
A059-04 KIT	200 - 250 - 300 - 315 - 400 - 450 mm - 8" - 12" - 18"	480x500x1150	85 "





### C377 MICRO-CORING EQUIPMENT

STANDARD: UNI 10766

Extract a micro-core samples from a rock is an extremely valid non-destructive method, as it allows analysis and accurate evaluations (compression resistance, ecc.) without causing any damages, considering the dimension of the hole that can be eventually clogged with mortar.

Micro-coring system is ulteriorly valid and reliable if combined with ultrasonic tester and concrete hammer.

Micro-core extraction is easy, correct and requires the presence of one operator only.

The equipment comprises:

- Suitable electric drill. 230V 1F 50Hz
- Flanged guide assembly
- Drilling mask
- Impregnated diamond bit for cores with Ø 28x100 mm
- Impregnated diamond bit for cores with Ø 28x200 mm
- 2 Self-blocking pincers to fit the flanged guide assembly to the surface

Set of accessories comprising: anchors, bits, wrenches and screws. Carrying case.

**Dimensions:** 550x400x200 mm approx

**Weight:** 10 kg approx



#### ACCESSORIES

**C377-01** WATER TANK WITH FOOT PUMP, that leaves the hands of the operators free for coring

AS ALTERNATIVE:

**C377-02** AIR-WATER PRESSURE TANK, 10 litres capacity



### C377-05 TRIMMING/CUT-OFF MACHINE FOR CORES

Suitable to cut and trim cores to be prepared for compression tests, where the flatness of both surfaces is a basic condition to obtain correct results.

The equipment is made of stainless steel and aluminum and it is supplied complete with diamond blade diameter 180 mm.

For this purpose it must be used the drill mod. C377-10 (enclosed into micro-coring equipment) and the water tank with foot pump mod. C377-01.



**C377-05**

#### Note:

The maximum values expected for compression tests on micro-cores are usually lower than 60 kN. Portable compression machine mod. C094 (see p. 323), or a cement compression tester (see p. 422) may be conveniently used.

Trimming of cores may be even obtained with the grinding machine mod. C298 + device mod. C300-08 (see p. 65)

#### SPARES

**C377-10** Electric drill, suitable for the microcoring purposes.

**C377-15** Diamond bit, Ø 28x100 mm

**C377-16** Diamond bit, Ø 28x200 mm



**A122-10**

### A122-10 TILT TEST

The instrument measures the roughness coefficient of a rock specimen or of a joint. The sample is usually a rock core cut in half lengthwise, or a core placed on another two.

The unit is also designed to test the possible fluage tendency of bituminous mixtures covering a slope of a dam subject to high sun radiations. The fluage tendency is the permanent viscous deformation of a material. The apparatus consists of an inclined adjustable plane on which the sample is placed.

Inclination angle: 0 - 75°

Max. sample diameter: 100 mm

The plane is slowly tilted until sliding of the upper surface of specimen on the lower one occurs. The roughness index can be evaluated from the measured inclination angle.

**Dimensions:** 270x175x265 mm

**Weight:** 5 kg approx.





**STANDARDS:** EN 933-2 | ISO 3310-1, ISO 3310-2, ISO 565 | ASTM E 11 | BS410 | NF X11-504 | UNI 2331, UNI 2333 | DIN 4187-1 | UNE 7050

Perforated plates are made of tinned steel, both square and round holes.

Their apertures are clearly marked on the label, including the serial number for the identification and traceability of the sieve.

Each sieve is supplied complete with certificate of conformity.

STANDARDS: ISO 3310-1 | EN 933-2, | BS410 | UNE 7050

DIN 4187-1 | NF X11-504 | UNI 2331, 2333

ASTM E11

The available openings of the woven wire mesh sieves are listed in the next pages and are coded from n° 00 to 77.

The buyer has to add to this number:

- A052-...** for the frame Ø 200 mm  
**A051-...** for the frame Ø 250 mm  
**A053-...** for the frame Ø 300 mm  
**A054-...** for the frame Ø 315 mm  
**A055-...** for the frame Ø 400 mm  
**A050-...** for the frame Ø 8"  
**A043-...** for the frame Ø 12"



A052-...

 **Note:** It is possible to test approx. 1000 g of material by using Ø 200 mm sieves; and 3000 g with Ø 300 mm sieves.

## “Square Hole”

STANDARDS: EN 933-2 | ISO 3310-2 | BS 410 | DIN 4187-1

The available openings of the perforated plate square hole sieves are listed in the next page, and are coded from n° 01 to 37

The buyer has to add to this number:

- A031-...** for the frame Ø 200 mm  
**A032-...** for the frame Ø 300 mm  
**A033-...** for the frame Ø 400 mm



A031-...

**Note:** EN 933-2 Standard specifies that “sieves with opening 4 mm and over shall be perforated plate square hole”. Below 4 mm they shall be woven wire.



A037-...

### “Round Hole”

STANDARDS: UNI 2334

The available openings of the perforated plate round hole sieves are listed in the next page, and are coded from n° 01 to 38

The buyer has to add to this number:

- A037-...** for the frame Ø 200 mm  
**A038-...** for the frame Ø 300 mm





## Quality Policy

**Total customer satisfaction** is a fundamental part of our company's philosophy and to fulfil this objective we provide products and services that fully comply with current technical standards and customers' expectations. All **MATEST** employees and collaborators are involved in the ongoing task of **improving** the processes that result in projects, products and services of ever-increasing quality. This can be achieved only through deep and constant commitment that goes hand-in-hand with an efficient organization and careful attention to every aspect of the day-to-day challenges: all of us, whatever our position in the company, must strive to complete our daily tasks, so as to increase efficiency and market competitiveness.

This is one of the reasons why we consider an important instrument to our continual growth the application of a Quality Management System that complies with UNI EN ISO 9001:2015.

Risk Management is a fundamental part of **DECISION PROCESS**, to be understood as the logical path to putting the General Manager in a position to **make decisions based on a correct evaluation of the effects**, whether positive or negative, **of any events being considered**. Risk management helps the General Manager and all their staff to reduce risk through **prevention** as an integral part of all processes involved in day-to-day activities inside the company.

Our programmes and future objectives include:

- ☐ Implementation of new **management structure** to accompany the company's growth in size and assure continuing success.
- ☐ Maintaining of **global leadership** by offering innovative, high-tech products to the international markets which requires investment in R&D with the aim of increasing the gap with emerging markets while reducing the gap with other leaders in the various product segments that are covered by the Matest range.
- ☐ Maintaining a **competitive advantage** on the global market based on production synergy which involves the optimization of production costs so as to offer competitive prices – this is guiding principle that has led to Matest's success.
- ☐ Ensuring that our range of products is kept up-to-date so we become the sole point of reference for clients (including both large and small distributors).
- ☐ Building upon the many years Matest has been in the industry in terms of accrued expertise, know-how and a world-wide reputation to support our objective which is to become "your partner in testing".
- ☐ **Expanding into new markets** through specially-made cooperation and by carefully monitoring already consolidated relations.
- ☐ Sensitizing employees/customers to the usage of the web and IT technology as tools
- ☐ Implementing continuous training for employees as our company values a highly-skilled and competent staff.

Management is committed to re-examining on a systematic basis the principles and objectives of our QA system as laid down herein to meet the needs and expectations of all our customers, end-users, employees, collaborators, shareholders and suppliers alike.

It will be Management's precise undertaking to assist all company personnel in enhancing our Quality Management System.

Treviolo (BG), 14/05/2021

MATEST S.p.A.

Direzione e Coordinamento  
Maestroni S.r.l.

Sede Legale  
Registered office

Sede Operativa e Amministrativa  
Trading address

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Management  
*Paola Maestroni*

# MANAGEMENT SYSTEM CERTIFICATE

Certificate No:  
CERT-16241-2005-AQ-MIL-SINCERT

Initial certification date:  
28 July 2005

Valid:  
23 July 2020 - 22 July 2023

This is to certify that the management system of

## **MATEST S.p.A. - Registered Office**

Viale Mantegna, 111 - 20862 Arcore (MB) - Italy  
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:  
**ISO 9001:2015**

This certificate is valid for the following scope:

**Design, manufacture and sale of machines, equipment and measurement instruments for the testing and inspection of building materials (IAF 19, 18)**

Place and date:  
**Vimercate (MB), 04 August 2020**



SGQ N° 003 A  
SGA N° 003 D  
SGR N° 002 H  
SCR N° 004 F

EMAS N° 009 P  
PRD N° 003 B  
PRS N° 004 C  
SSI N° 002 G

Membro di MILA EA per gli schemi di accreditamento  
SGQ, SGA, PRD, PRS, ISIRI, GAG, LAB e LAT di MILA IAF  
per gli schemi di accreditamento SGQ, SGA, SSI, ISIRI  
e PRD e di MILA ILAC per gli schemi di accreditamento  
LAB, MED, LAT e ISIRI

For the issuing office:  
**DNV GL - Business Assurance**  
**Via Energy Park, 14, - 20871 Vimercate**  
**(MB) - Italy**



**Zeno Beltrami**  
Management Representative





Certificate No: CERT-16241-2005-AQ-MIL-SINCERT  
Place and date: Vimercate (MB), 04 August 2020

## Appendix to Certificate

### MATEST S.p.A. - Registered Office

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
MATEST S.p.A. - Registered Office	Viale Mantegna, 111 - 20862 Arcore (MB) - Italy	Reference to scope
MATEST S.p.A. - Operative Site	Via delle Industrie, 25 - 24048 Treviolo (BG) - Italy	Reference to scope

