



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 77900021

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 MICHAEL AUSTIN
 304-558-2402

New Address

PROBITY

RFQ COPY
 TYPE NAME/ADDRESS HERE
 TEST MARK Ind.
 995 N. MARKET ST.
 EAST PALESTINE, OH 44413

SHIP TO

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
 25311

DATE PRINTED 10/06/2008	TERMS OF SALE NET 30 days	SHIP VIA Common CAR	F.O.B. DEST.	FREIGHT TERMS
BID OPENING DATE: 10/22/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	2	EA		845-06	11,699.49	23,398.98
TEST MARK INDUSTRIES CM-4000DB COMPRESSION TO PROVIDE TEST MARK INDUSTRIES MODEL CM-4000DB COMPRESSION TESTING MACHINES OR EQUAL FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS MATERIALS AND TESTING DIVISION. PER THE ATTACHED SPECIFICATIONS THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS. THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.						

RECEIVED
 08 OCT 17 AM 9:25
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Carol Polascio* TELEPHONE 800-783-3227 DATE 10-15-08
 TITLE Sales Coordinator FEIN 25-1671449 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services
7. Interest may be paid for late payment in accordance with the *West Virginia Code*
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
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Request for Quotation

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 2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 MICHAEL AUSTIN
 304-558-2402

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VENDOR

TEST MARK IND.

SHIP TO

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
 25311

DATE PRINTED 10/06/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: 10/22/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	EXHIBIT 10			REQUISITION NO.: 77900021		
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NO.'S:					
	NO. 1	✓				
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.					
	VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.					
				<i>Carol Balawie</i>		
					
				SIGNATURE		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Carol Balawie</i>	TELEPHONE 800-783-3227	DATE 10-15-08
TITLE Sales Coordinator	FEIN 25-1671449	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
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 Purchasing Division
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 25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/14/2008				
BID OPENING DATE: 10/29/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOF	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
BID OPENING DATE AND TIME CHANGED						
FROM: 10/22/08 AT 1:30 P.M.						
TO: 10/29/08 AT 1:30 P.M.						
NO OTHER CHANGES.						
0001	2	EA		845-06	11,699.49	23,398.98
TEST MARK INDUSTRIES CM-4000DB COMPRESSION						
***** THIS IS THE END OF RFQ 77900021 ***** TOTAL:						23,398.98

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Carol Belcher* TELEPHONE 800-783-3227 DATE 10-15-08
 TITLE Sales Coordinator FEIN 25-1671449 ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
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ADDRESS CORRESPONDENCE TO ATTENTION OF
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304-558-2402

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TEST MARK Incl -

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/06/2008				

BID OPENING DATE: **10/22/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UQP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				<i>TEST MARK Incl -</i> COMPANY <i>Oct. 15, 2008</i> DATE		
				NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: 33 RFQ. NO.: 77900021 BID OPENING DATE: ----- BID OPENING TIME: -----		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Carol Calavico</i>	TELEPHONE <i>800-783-3227</i>	DATE <i>10-15-08</i>
TITLE <i>Sales Coordinator</i>	FEIN <i>25-1671449</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
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4

ADDRESS CORRESPONDENCE TO ATTENTION OF:
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BID OPENING DATE: 10/22/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- FAX # 330-426-2210 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- CAROL BALASCIO ----- ***** THIS IS THE END OF RFQ 77900021 ***** TOTAL:						23,398.98

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Carol Balascio TELEPHONE 800-783-3227 DATE 10-15-08
 TITLE SALES Coordinator FEIN 25-1671449 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Test Mark industries CM-4000DB or equal.

Precision Compression Testing Machine with digital load readout, 400,000-LB capacity.

Set of front and rear hinged, locking fragment safety guard doors, for operator's protection.

6.5" Dia. spherically seated upper platen assembly for testing 6"x12" cylinders.
Conforms to ASTM C-39

Cylinder shelf for easy insertion/removal of cylinders.

Heavy duty testing machine stand.

Welded one-piece frame.

Single channel of load input with up to 10 calibration points.

Calibration data store in permanent memory.

Serial port for transfer of test results to a remote computer.

One day of setup, training, and calibration for machine.

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37 (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:

___ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

___ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

___ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

2. Application is made for 2.5% resident vendor preference for the reason checked:

___ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

3. Application is made for 2.5% resident vendor preference for the reason checked:

___ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

4. Application is made for 5% resident vendor preference for the reason checked:

___ Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

___ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

___ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: TEST MARK INC. Signed: Carol Balasoi

Date: 10.15.08 Title: Sales Coordinator

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: TEST MARK Inc.Authorized Signature: Carol BalawciDate: 10-15-08

MACHINE SPECIFICATION
TEST MARK MODEL CM-4000-LXI

DESCRIPTION: CM-4000-LXI Series Compression Testing Machine, designed for concrete test specimens.

CAPACITY: 400,000 lbs. Compression.

RANGE: 4,000 lbs. to 400,000 lbs.

ACCURACY: \pm .5% of indicated load.

DESIGN: A single unit self-contained high strength load frame design. The digital control box and hydraulic pump with load rate control valve are mounted on the right side members of the compression unit.

COMPRESSION UNIT CONSTRUCTION: The load frame is manufactured from four structural steel members 5" x 3-1/2" x 3/4" thick with top and bottom crossheads having a minimum thickness of 5" x 18-3/4" wide x 12" deep. The frames side members are fully welded to the inside and outside crosshead seams forming a solid one-piece load frame. The hydraulic cylinder assembly is mounted to the bottom crosshead with force being applied in an upward direction. Total frame deflection at full capacity is .027" exceeding ACI 363 frame stiffness specification.

- A. INSIDE DIMENSIONS: The compression area of the load frame has a vertical daylight opening of 18-3/8" and a horizontal opening of 13-1/4". These dimensions are without spherical seated platen installed in the machine.
- B. OUTSIDE DIMENSIONS: The outside load frame dimensions are 60 1/4" overall height x 37 3/4" overall width x 20" overall depth when mounted on the heavy-duty stand supplied with the machine.

TOP COMPRESSION PLATEN ASSEMBLY: The spherically seated cylinder platen assembly is composed of four main parts, the contact platen, spherical disc, spherical seat and holding stem. The compression platen is 1.5" thick and 6.5" in diameter. Platen is hardened to a Rockwell hardness of 55C or better and is precision ground to maintain planeness within .0005" in any 6" of direction. Surface is scribed with concentric circles for easy specimen centering and electroplated with industrial hardened nickel for wear and rust resistance. Load capacity is 650,000 lbs. Platen conforms to ASTM C-39 specification.

BOTTOM COMPRESSION PLATEN: The lower platen is 2" thick by 12" wide by 18" deep and hardened to 55 RC or greater, plane to within .0005" in any 6" direction and hard nickel plated for wear and corrosion resistance. Concentric circles are scribed into the lower platen for easier centering of testing specimens. The platen is directly mounted to the top of the piston. A debris shroud prevents foreign matter from entering the piston and cylinder assembly.

HYDRAULIC RAM: Testing pressure to be applied by a power piston with a minimum diameter of 8". Stability length of the piston is 5" with the working stroke being 2 1/2". Precision ground and polished, the piston is mounted in a polished solid steel cylinder with a non-frictional "O"-ring and teflon back-up ring sealing system.

HYDRAULIC PUMPING SYSTEM: Hydraulic pressure is supplied to the piston by a two-stage pump. The pump features a super-charger first stage that provides low-pressure, high-volume delivery for rapid advance of the piston. Once system pressure exceeds 125 psi, stage two automatically takes over to deliver high-pressure, low-volume flow to full machine capacity. The hydraulic pump is directly connected to the electric motor, the pump runs immersed in hydraulic oil, rendering it maintenance free.

HYDRAULIC CONTROL SYSTEM: A single semi-automatic control valve with multiple loading and unloading functions is used.

- A. METERED ADVANCE FUNCTION: Loading is maintained by a pressure compensation valve that maintains a continuous rate of loading. Pressure per minute loading is adjustable from 2,000 to 200,000 pounds per minute or 0 to 0.6" per minute travel. At any time during the testing cycle the rate of loading can be adjusted. Load is applied continuously and without shock until sample failure.
- B. FULL ADVANCE FUNCTION: The rapid travel lever setting is used to move the compression platen at the rate of 2.5" travel per minute. This feature permits the rapid advancement of the hydraulic piston prior to making contact with the specimen, as well as pre-loading of specimens.
- C. HOLD FUNCTION: Pressure advance can be stopped and held to inspect the alignment of the test sample or stop the test cycle.
- D. RETRACT FUNCTION: This function is for the release of pressure and return of the piston to its start position.

DIGITAL MOUNTING BOX: The digital mounting box is located on the upper right hand side of the load frame, with the digital unit vertically mounted for easier reading of displayed load values. The digital box is manufactured from heavy gage steel and is 8 5/8" H x 10 5/8" W x 4" D. For full digital information please see attached specifications on the LXI digital.

SAFETY FEATURES:

- A. Fragment guards: Supplied as standard equipment, guards are mounted on the front and rear openings of the load frame.
- B. Maximum Capacity Protection: A hydraulic safety valve prevents the hydraulic circuit from exceeding the maximum capacity of the load frame. This is set at the factory. Once maximum capacity is reached, a high-pressure relief valve stops the machine from going beyond the set capacity.

COMPLIANCE: The CM-4000-LXI series testing machines are in strict compliance to A.S.T.M. specifications C-39, E-4, and A.C.I. committee 363.

ELECTRICAL SPECIFICATIONS: The hydraulic pump motor is rated at 115/220 volts, 13.2/6.6 full load amps. Single phase, 50/60 Hz current is required. Standard motor develops 3/4 horsepower.

ACCESSORY SYSTEM: Accessories are held in the compression unit by means of a locking holding stem system. The stem is inserted into the upper crosshead and held by a locking setscrew, accessible from the front for operator convenience and safety. Spacers are used for obtaining proper spacing for specimens of various heights.

UNIT WEIGHT: Complete unit shipping weight without accessories is 1,600 lbs.

SHIPPING: CM-4000-LXI machines are shipped in an upright position, bolted to a wooden skid and crated. Total shipping weight can vary, depending upon type and number of accessories ordered.

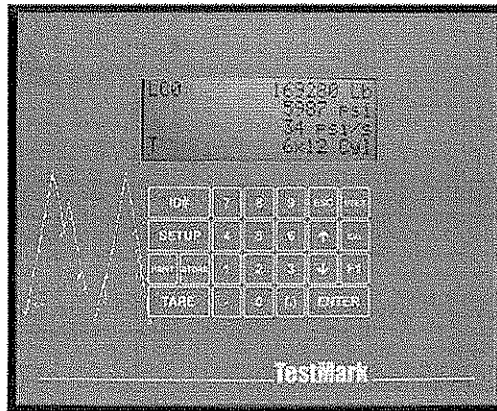
WARRANTY: Test Mark warrants the CM-4000-LXI testing machine, digital system and load platens for a period of two (2) years.

3/1/07



TEST MARK INDUSTRIES

LXI Digital Load Indicator



- ✓ Automatically displays peak stress and load at the end of a test.
- ✓ User-friendly menus with simple data entry.
- ✓ Prints X-Y Load or Stress vs. Time graph

The LXI Digital is the system of choice for both commercial and in house testing laboratories where ease of operation, accuracy and test documentation is required.

During a test it displays load, stress, rate of loading in either load or stress in units of time of seconds or minutes, plus the type of specimen being tested and its size, all simultaneously on the indicators four line display. At the end of a test it automatically displays both peak stress and load, and if activated the average rate of load applied to the specimen during the test, with accuracy exceeding ASTM C-39 and E-4 requirements.

The digitals user-friendly scroll through test set up menu allows the operator to simply select a menu option and then either enter a yes/no command to activate the option or enter a numeric value to set the test parameter field. A pre-set menu lists seven common specimen types to select from; cylinder, cube, beam center, beam third point, round, flat and cross sectional area, allowing you to select, display and document test data.

All test information is easily read on the indicators backlighted LCD display, consisting of four lines, each having 20 alphanumeric characters .375" (9.5 mm) in height. Test data can be displayed in any of the selectable engineering units of; Load – lbs., kN, N or Kg, Stress – psi, MPa, Kpa or kg/cm², Size – in, mm or cm and Time – seconds or minutes. A durable membrane keypad is used to select and set all menu functions. Specific keys are; test set up menu, enter, tare, scroll arrows, store, print, specimen ID number, escape, 0 through 9, decimal point, utility diagnostics and password protected calibration.

Accuracy exceeds ASTM C-39 and E-4 requirements and in general is better than + .5% of indicated load from 1% to full machine capacity. This accuracy is achieved through a calibration program using 10 calibration points with piecewise linear fit between points. Accuracy is further improved through a unique edit calibration function, which allows the onsite calibrator to re-enter the program and reset an individual value assigned to a

calibration point, further improving the linearity of the calibration curve in a specific area. Up to six separate calibration programs can be stored allowing the indicator to be used with multiple transducer/load cell combinations with one or more load frames.

For added dependability the digital features a unique restore calibration program. This function allows the digitals calibration to be reinstalled in the field if it is ever changed, lost or the unit is damaged. This simple procedure is accomplished through the digital keypad by entering the original load value points and their corresponding A/D counts into the calibration program.

Your machines original calibration information is maintained at Test Mark in the units Q.C. inspection report. You can also print a copy of the calibration report for your files, after accuracy verification of the machine.

For hard copy test documentation, up to 1,000 tests can be stored in memory and printed directly on a parallel port printer or transferred to a PC through a standard RS-232 serial port. The system also features the X-Y plotting of a load or stress vs. time graph with title block listing date and time, specimen ID number and peak stress of the test. An optional compatible printer is required for graphing.

The standard test report print out is in a spreadsheet format and lists the following information; sequential test number, date and time, specimen ID number, specimen type, specimen area and length, peak load and peak stress. Optional data includes; average rate of load applied to a specimen during a test, cylinder correction factor to C-39, cylinder break type, cylinder cap type, specimen age & weight, operator ID number and statistical summary of peak load and stress. Print options are; print current test or all stored tests and X-Y graph.

To transfer stored test results to a PC, the optional Wincom or Wincom Plus data communications transfer program is required. The Wincom Plus program includes the added feature of allowing raw X-Y data to be transmitted directly to a PC for generating a Load/Stress vs. Time graph. Up to 10 individual graphs stored in the PC can be plotted on a single report page.

An optional piston travel speed indicator package is available, that when activated displays travel rates in either in, mm or cm per second or minute.



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 77900021

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 MICHAEL AUSTIN
 804-558-2402

RFQ COPY

TYPE NAME/ADDRESS HERE

TEST MARK INC.
 995 N. MARKET ST.
 EAST PALESTINE, OH 44413

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
 25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/27/2008				

BID OPENING DATE: 11/12/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
BID OPENING DATE AND TIME CHANGED						
FROM: 10/29/08 AT 1:30 P.M.						
TO: 11/12/08 AT 1:30 P.M.						
NO OTHER CHANGES						
0001	2	EA		845-06	11,699.49	23,398.98
TEST MARK INDUSTRIES CM-4000DB COMPRESSION						
***** THIS IS THE END OF RFQ 77900021 ***** TOTAL:						23,398.98

PURCHASING
 STATE OF
 WEST VIRGINIA
 08 NOV - 3
 RECEIVED

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Paul Balacco* TELEPHONE: 800-783-3227 DATE: 10/27/08

TITLE: Sales Coordinator FEIN: 25-1671449 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

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 MICHAEL AUSTIN
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PROPERTY

TEST MARK Incl.

SHIP TO

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
 25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/27/2008				

BID OPENING DATE: 11/12/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
CHANGES TO THE SPECIFICATIONS - IN PARAGRAPH 1						
READS: TEST MARK INDUSTRIES MODEL CM-4000DB COMPRESSION TESTING MACHINES						
TO READ: TEST MARK INDUSTRIES MODEL SM-400LXI COMPRESSION TESTING MACHINES						
BID OPENING DATE AND TIME REMAINS 11/12/08 @1:30 P.M.						
NO OTHER CHANGES						
0001	2	EA		845-06	11,699.49	23,398.98
TEST MARK INDUSTRIES SM-400LXI COMPRESSION						
***** THIS IS THE END OF RFQ 77900021 ***** TOTAL:						23,398.98

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Carol Malasio</i>	TELEPHONE <i>800-783-3227</i>	DATE <i>10-30-08</i>
TITLE <i>Sales Coordinator</i>	FEIN <i>25-1671449</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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 Department of Administration
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 MICHAEL AUSTIN
 804-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

TEST MARK IND,

STATE

DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIV
 MATERIALS TESTING SECTION
 312 MICHIGAN AVENUE
 CHARLESTON, WV
 25311

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
10/29/2008				

BID OPENING DATE: 11/12/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 4		
				TO CORRECT ADDENDUM NO. 3		
				TO READ: TEST MARK INDUSTRIES MODEL CM-4000LXI COMPRESSION TESTING MACHINES		
				BID OPENING DATE AND TIME REMAINS 11/12/08 @ 1:30 P.M.		
				NO OTHER CHANGES		
0001	2	EA		845-06	11,699.49	23,398.98
				TEST MARK INDUSTRIES CM4000LXI COMPRESSION		
				***** THIS IS THE END OF RFQ 77900021 *****	TOTAL:	23,398.98

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Carol Belasco* TELEPHONE 800-783-3227 DATE 10-30-08
 TITLE Sales Coordinator FEIN 25-1671449 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'