

Prepared for
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City of Santa Rosa
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FOR YOUR REFERENCE

Issue Date: August 10 2022
Expires: 60 Days from Issue Date
Proposal Number: Q-103985-5
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The City of Santa Rosa requires a duplicate of the County of Sonoma's DX300.

QUOTATION

Item Number	Description	Quantity	Price
DX300			
DX300	Model 300DX Hydraulic Universal Testing System, Capacity 300 kN (30,000 kgf, 67,500 lbf)	1	
DX300-A1	300DX English language labels and manuals	1	
DX300-V1	300DX Common System Specifications	1	
DX300-G8	300DX with Single Test Space and Closed Crosshead for Compression-Only	1	
DX300-D1	Voltage option, 200-250 VAC, 3Ph, 50/60Hz	1	
CP119530	6.5" diameter upper Spherically seated compression platen with locking mechanism to disable the spherical feature. Lower wear platen will be provided with centering circles to aid in the locating of test fixturing on the axial centerline of the test frame	1	
CP119529	Platform to place stabilometer on prior to sliding into test space.	1	
2450-700	Bluehill Universal Testing Software for NEW 3300, 3400, 5900, 59 Series, 6800, 8800, and New EXTEND Retrofits	1	
2450-700A1	English language option.	1	
2450-700C5	For 59-R8 and 59-R7 controller series.	1	
2450-700D1	General and Components Application Module	1	
2450-700F1	TestProfiler	1	
2490-696	Operator Dashboard for new and existing 3300 / 3400 / 5500 / 5500A / 5900/ 6800 Series Systems	1	
2490-696B1	21.5 inch Touch Computer	1	
2490-696M5	Operator Dashboard arm mounting for LX, DX, AT3, and AT6 systems.	1	
2490-696P1	US and Canadian Power Cord Set (NEMA)	1	

Item Number	Description	Quantity	Price
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Total	US \$ 107,651
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Services

1405-710	Instron RTS Agreement	1
1400-050	System Installation and Integration	1
1480-211	Enhanced Force Verification, 0-300 KN (0-67,442 lbf) , ONE DIRECTION (Tension OR Compression), At Installation.	1
1450-055	Onsite Software Integration, Introduction to Bluehill Fundamentals and Test Method Development.	1
1450-057	Onsite Bluehill Universal Instruction for Advanced Features and Optional Modules	1
1405-501	System Warranty Services	1

Total	US \$ 3,680
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Signature
8/23/2022

Grand Total	US \$ 111,331
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Shipping	\$1,500
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Lead Time: 44 - 50 weeks from acceptance of official order, subject to prior orders. Due to ongoing supply chain disruptions this estimated lead time will be updated at the time of order entry.

\$112,831.00

ITEM DETAILS

DX300

DX300	Model 300DX Hydraulic Universal Testing System, Capacity 300 kN (30,000 kgf, 67,500 lbf)
DX300-A1	300DX English language labels and manuals
DX300-V1	300DX Common System Specifications Common system specifications include: <ul style="list-style-type: none"> • Maximum Test Speed: 150 mm/min (6 in/min) • Actuator Stroke: 152 mm (6 in) • Crosshead Adjusting Speed: 380 mm/min (15 in/min) • Horizontal Opening (between columns): 381 mm (15 in) • Compression Table Size: 356 x 356 mm (14 x 14 in) • Overall floor space requirements W x D: 786 x 993 mm (30.94 x 39.13 in) • 5900 integrated control electronics with closed-loop control and data acquisition • Upgraded ergonomic handset with a fine position adjustment wheel, two programmable softkeys, start, stop and return functions, and variable speed jog • Primary load and actuator displacement measurement channels • Three (3) available expansion slots for use with the following options (purchased separately): <ul style="list-style-type: none"> • 2210-862 sensor conditioner card (up to 3 total) • 2310-907 analog out, digital I/O card (1 only) • IP-5921 secondary digital input (1 only) • Variable pressure hydraulic power supply contained within machine base. • Compression table interface: 6 x M10 - 100 mm BC and a 0.5 in diameter x 1 in deep centering bore
DX300-G8	300DX with Single Test Space and Closed Crosshead for Compression-Only Compression-only system configuration, additional specifications: <ul style="list-style-type: none"> • Vertical Compression Opening: 171-679 mm (6.75 - 26.75 in) • Maximum operating Height: 1855 mm (73 in) • Nominal Net Weight: 945 kg (2080 lbs) • Shipping Dimensions (horizontal) L x W x H: 2235 x 1042 x 1397 mm (88 x 41 x 55 in) • Shipping Weight: 1,753 kgs (3,865 lbs) • Adjustable crosshead, compression accessory interfaces include: <ul style="list-style-type: none"> • 4 x M10 - 6 hole pattern on a 100 mm BC • Type R2f receptacle, includes 1.5 in holding button • 4 x M10 - 6 hole pattern on a 100 mm BC • Type R1f receptacle, includes 1 in holding button <p>Minimum compression opening includes stroke and is measured between crosshead and table.</p>
DX300-D1	Voltage option, 200-250 VAC, 3Ph, 50/60Hz A 3.1m (10ft) cord with no plug (flying leads) is provided for connection to appropriate power supply.
CP119530	6.5" diameter upper Spherically seated compression platen with locking mechanism to disable the spherical feature. Lower wear platen will be provided with centering circles to aid in the locating of test fixturing on the axial centerline of the test frame Long Description
CP119529	Platform to place stabilometer on prior to sliding into test space. A platform shall be included on the front of the test frame that is flush with the lower wear plate when in its lowest position to permit a stabilometer to be slid into the test space without lifting. This platform shall be at least 10 inches deep and at least 25 inches wide and be able to support the weight of a 60 lb stabilometer

DX300

2450-700

Bluehill Universal Testing Software for NEW 3300, 3400, 5900, 59 Series, 6800, 8800, and New EXTEND Retrofits

Bluehill Universal is Instron's premier materials and components testing software package meeting the needs of a wide variety of applications including plastics, composites, metals, elastomers, biomedical, adhesives, textiles, components and others. Each application module provides the capability for tension, compression, flexure, stress-relaxation, creep, peel, tear and friction testing and test control based off of extension, load or strain. Also included is Instron's complete calculation library with hundreds of different calculations such as modulus and ultimate tensile strength, as well as user-defined calculations. Bluehill's one-of-a-kind report generator allows users to create customized report templates that can be linked with test methods and used to export test results via email or save as HTML, Word or PDF. Raw data and result export files are completely customizable for enhanced compatibility with Laboratory Information Management Systems. Options are available such as advanced test control, file change logs and approval, a networked database, and web camera recording.

Windows 10 and Windows 11 (64 Bit only) operating systems, excluding Home editions.

2450-700A1

English language option.

2450-700C5

For 59-R8 and 59-R7 controller series.

2450-700D1

General and Components Application Module

The General and Components Application Module does not include pre-configured test methods.

2450-700F1

TestProfiler

TestProfiler allows you to create custom test control sequences (profiles) with a simple, user friendly interface. Complex cyclic test sequences are readily created by using TestProfiler's waveform building steps (triangles, ramps and holds). Your test method is graphically displayed as you create it and standard Windows tools (cut, paste, copy, delete, etc.) can be used to quickly create or modify virtually any complex test sequence. Test results can be independently assigned to individual test steps and the graphical display of test results can be filtered to show only the steps (cycles) of interest.

A completely redesigned TestProfiler has been introduced with Bluehill 3.61 (not supported on Windows XP) with enhanced usability and test control flexibility. Examples of the enhanced test control include ability to

- Change temperatures of select chamber or furnace models in the middle of a test
- Change the data acquisition frequency for each individual segment of the test (called step)
- Allow rapid changes to profile parameters between tests using operator inputs

2490-696

Operator Dashboard for new and existing 3300 / 3400 / 5500 / 5500A / 5900/ 6800 Series Systems
Includes:

- Flat screen, industrially-rated touch monitor
- Full support for Bluehill Universal Materials Testing software
- Cables and connectors
- Standard VESA 100 mm interface to allow use of third-party TV/monitor mountings if desired
- 3 Year Warranty

Options:

- Integrated controller (B1 select)
- Pedestal desk mount or T-slot mounted adjustable arm mount (M Select)
- Integration with 5900 or 5500/5500A Handset (G1 or H1 select)

2490-696B1

21.5 inch Touch Computer

Includes Windows 10 Enterprise LTSC operating system, 2 Ethernet ports, 6 USB ports, and wireless network adapter. Not for use with Windows 11.

Must select Power Cord (P Select).

2490-696M5

Operator Dashboard arm mounting for LX, DX, AT3, and AT6 systems.
Features include:

DX300

- Vertical adjustment along T-slot.
- Height adjustable articulating arm
- Rotation and tilt towards/away from operator
- Portrait/landscape orientation
- 100 mm VESA mounting interface

2490-696P1 US and Canadian Power Cord Set (NEMA)

Services

1405-710

Instron RTS Agreement

This enhanced RTS (Remote Tech Support) agreement allows users to maintain uptime and streamline related business processes associated with the testing equipment. Instron Technical Support can monitor, diagnose, and react to issues to keep laboratories more productive and profitable. Instron Connect software can monitor the status, operating parameters, and configuration of test systems through a software-based monitoring agent that communicates securely with the Instron Connect Cloud Server.

Your RTS Agreement provides the highest level of priority technical support throughout the warranty period and includes:

- Built in technical support messaging
- Remote technical support
- Secure screen-sharing remote support with voice over IP capability
- Scheduled Calibration and Preventative Maintenance Reminders
- Easy file transfers and uploads
- Automatic Software and Firmware Update Reminders
- Fast, reliable software updates
- Remote Augmented Reality (AR) support as needed

1400-050

System Installation and Integration

Installation performed by an Instron factory and field trained Service Engineers / Representative. The system introduction can be provided for up to 3 operators. For larger numbers of operators, Instron Training classes are recommended. Some or all of the following activities will be performed subject to the system quoted and system configuration:

- Set up of system
- Safety Awareness and general testing safety precautions
- Make all physical and electrical connections, except 3 phase power and water
- Mount, install and test all peripheral fixtures and transducers, environmental chambers, and any major accessories that are supplied with the system
- Check correct operation of the system.
- Check correct operation of all electrical components and mechanical assemblies and transducers (where fitted)
- Configure controller and test for correct operation including all adjustments and tuning. (Includes Console Software for Dynamic Systems)
- Calibration and verification services are quoted separately
- Basic System and Software Introduction are quoted separately
- General instruction associated with any hardware elements of the system
- Review basic operation manuals and any other related documentation

Services

- 1480-211 Enhanced Force Verification, 0-300 KN (0-67,442 lbf) , ONE DIRECTION (Tension OR Compression), At Installation.
This verification will be performed to 0.5% accuracy down to the full operating load range of capacity as specified for the system (ASTM E4 conforming). This covers ONLY one direction.
Load ranges:
5900 with 2580 load cell down to 1/500th of capacity
5900 with 2580 load cell and Advanced Performance, down to 1/1000th of capacity
3300 down to 1/200th of capacity
- 1450-055 Onsite Software Integration, Introduction to Bluehill Fundamentals and Test Method Development.
This integration level usually targets new Bluehill users or existing users with detailed applications needs, multiple test methods in use, and/or multiple operators using their systems. Integration includes:
- Detailed onsite software operation and usage instruction for up to 3 operators
 - Instruction covering Bluehill user experience features (touch elements, support and BH differences when applicable)
 - Set-up of specimen parameters, test control parameter, report templates, results calculations setup for applications
 - Development or conversion up to 5 Test Methods
 - Overview of test method results and report
 - Review of user's application needs
 - Detailed testing of customer supplied specimens to validate/verify customer test methods and applications
- If applicable, integration of Instron supplied all-in-one controller and dashboard, including mountings and loading of software, as well as review and activation of Instron Connect, remote service tool will be included. Customer-integrated images on Instron-supplied PCs and Dashboards requires the purchase of 3781-625.
- Notes:
1. For additional test method development (more than 5 methods), please consider 1450-255 which provides an additional test method development.
 2. This integration and introduction does NOT include instruction for advanced software features like advanced strain products software elements, user-defined transducers, virtual measurements, Advanced Onsite Bluehill Consultancy (1450-057) covers those options and features
 3. On-Site introductions are not intended to replace formal training. Instron strongly recommends our Instron Training classes which can be delivered at your site, a regional training center or an Instron facility.
- 1450-057 Onsite Bluehill Universal Instruction for Advanced Features and Optional Modules
Session provides advanced training directly related to your application and the utilization of applicable software and hardware features and modules. Multiple quantities should be purchased to provide instruction for the multiple options. Instruction for these features and options are NOT covered in the Enhanced or Basic Integration sessions. Features and modules sessions include:
- Traceability
 - TrendTracker
 - TestProfiler
 - Torsion Add-on (TAO 3.0)
 - AVE2, AutoX, DIC extensometry
 - User Transducers/Virtual Measurements/ Expression Builder
- Session is for Bluehill users who have completed the basic or enhanced onsite integration and instruction activities.
- Up to 4 hour onsite session providing advanced training and/or assistance with the migration and development of test methods, for up to 3 operators, using customer supplied equipment. Select quantity to match the number of sessions for the different features and modules.

Services

1405-501

System Warranty Services

The service and support agreement for this system while under warranty includes the following services during the first year of system ownership (see Instron Terms and Conditions for exact details, limitations and restrictions):

- Parts, labor and travel for repair/replacement for covered items (as defined in terms & conditions)
- Priority telephone support during normal business hours at our Norwood MA headquarters.
- Damaged CD replacement on for applicable software
- Support and literature access at www.instron.com
- Access to a secure support website under one user log-in
- Priority support web-based help desk
- Access to scheduled Webinars, application & product information (English)
- On-line access to calibration certificates (Ceast systems not covered)