

TEXAS DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES DIVISION

SPECIFICATION NO.
TXDOT 700-53-24533
DATED: JULY 2006
MES Class Code: 331000

PLATE MAKER, COMPUTER-TO-PLATE, FOR OFFSET PRESS

PART I

GENERAL CLAUSES AND CONDITIONS

1. The equipment furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, and shall be of quality workmanship and material. The respondent represents that all equipment offered under this specification shall be new. USED, SHOPWORN, DEMONSTRATOR, PROTOTYPE, REMANUFACTURED, RECONDITIONED OR DISCONTINUED MODELS ARE NOT ACCEPTABLE.
2. Respondent should submit with the solicitation or have on file with TxDOT, Austin, Texas, the latest printed literature and detailed specifications on equipment the respondent proposes to furnish. This literature is for informational purposes only.
3. The unit shall be completely assembled and adjusted, and all equipment including standard and supplemental equipment shall be installed and the unit made ready for continuous operation upon delivery.
4. All parts not specifically mentioned which are necessary for the unit to be complete and ready for operation or which are normally furnished as standard equipment shall be furnished by the vendor. All parts shall conform in strength, quality and workmanship to the accepted standards of the industry.
5. The unit provided shall meet or exceed all Federal and State of Texas safety, health, lighting and noise regulations and standards in effect and applicable to equipment furnished at the time of manufacture.
6. It is the intent of TxDOT to purchase goods, equipment and services having the least adverse environmental impact, within the constraints of statutory purchasing requirements, TxDOT need, availability, and sound economical considerations. Suggested changes and environmental enhancements for possible inclusion in future revisions of this specification are encouraged.
7. TxDOT encourages all manufacturers to comply voluntarily with the Society of Automotive Engineers (SAE) Recommended Practice for marking of plastic parts per latest revision of SAE J1344 Standard. All plastic components furnished to this specification should have an imprinted SAE symbol identifying the resin composition of the component so that the item can be recycled after its useful life. Manufacturers are encouraged to use recycled plastics and materials in the manufacture of their products in order to conserve natural resources, energy and landfill space. Respondents should note that future specification revisions may require mandatory compliance with the SAE plastic coding system.

8. TxDOT is committed to procuring quality goods and equipment. We encourage manufacturers to adopt the International Organization for Standardization (ISO) 9001-9003 standards, technically equivalent to the American National Standards Institute/American Society for Quality Control (ANSI/ASQC Q91-93), and obtain certification. Adopting and implementing these standards is considered beneficial to the manufacturer, TxDOT, and the environment. It is TxDOT's position that the total quality management concepts contained within these standards can result in reduced production costs, higher quality products, and more efficient use of energy and natural resources.
9. Measurements will be given in both the English and metric system. Where any conflict between the two stated measurements may occur, the measurements provided in the English system shall supersede those provided in the metric system.

PART II

SPECIFICATIONS

1. SCOPE: This specification describes a computer-to-plate system, to produce accurate, high resolution thermal plates for both landscape and portrait, two-up presses.
2. EXAMPLES: Presstek Vector TX52 Computer to Plate System, FUJI Dart Luxel T-6000 CTP System or TxDOT approved equivalent.

NOTICE TO RESPONDENT: Any example shown is listed to show type and class of equipment desired. Respondent is cautioned to read the specifications carefully, as there may be special requirements not commonly offered by the equipment manufacturer. DO NOT ASSUME YOUR STANDARD EQUIPMENT MEETS ALL DETAILED SPECIFICATIONS MERELY BECAUSE IT IS LISTED AS AN EXAMPLE. Respondent is cautioned that any unit delivered to the FOB point, which does not meet this specification in every aspect will not be accepted.

3. PLATE MAKER: System shall:
 - 3.1. Be capable of producing pressroom-quality, high-resolution, ready-for-press, punched thermal plates from industry standard files from both Macintosh and PCs from software packages such as QuarkExpress, InDesign, and others used to create and impose finished pages as well as from one bit TIFF files from a RAMPAGE (or equivalent) RIP system, including pre-trapped files.
 - 3.2. Create PostScript compatible screened bitmapped files.
 - 3.3. Support all PostScript font types with sophisticated font handling techniques, allowing for quick and easy downloading, proofing, and listing of fonts.
 - 3.4. Spool ripped page layouts, allowing the operator to access them on an as-needed basis.
 - 3.5. Support automated conversion of 1-bit TIFF bitmap files for output.
 - 3.6. Accommodate plate sizes up to 20 inches (505mm) x 21 inches (525mm)
 - 3.7. Be capable of producing plates of thicknesses between .15mm (.006") and .20 mm (.008")
 - 3.8. Not exceed 150cmL x90cmW x150cmH (60"Lx36"Wx60"H).
 - 3.9. Be capable of imaging plates at full 2400 dpi resolution.

- 3.10. Include a pin register that ensures consistency and repeatability.
- 3.11. Be able to consistently image a minimum of 10 plates per hour at full resolution.
- 3.12. Include software tools that assist users in plate production workflow and which require little training and support.
- 3.13. Be capable of producing plates using a chemical-free process.
- 3.14. Preserve positional accuracy.
- 3.15. Include internal drum architecture.
- 3.16. Support full in-rip trapping options.
- 3.17. Include a proofing module that allows system to drive an ink-jet proofer with ICC profiles for consistent output.
- 3.18. Be capable of operating in a daylight-safe environment, 60-75F, office environment or prepress area.
4. ELECTRICAL REQUIREMENTS: Complete unit shall operate on 230 VAC, 50/60 Hz.
5. SAFETY PLAQUES OR DECALS: Product safety plaques or decals shall be furnished and affixed at the operator's station and at any hazardous area. The safety plaques or decals shall describe the nature of the hazard, level of hazard seriousness, how to avoid the hazard, and the consequence of human interaction with the hazard. Permanent plaques are preferred to decals. Type, size and location of product safety plaques or decals shall be in accordance with the latest revision of ANSI Z535-4 Standard.
6. MANUAL(S): Equipment shall be delivered with current original manual(s) containing illustrated parts list and number, operating and service instructions in English. The manual(s) shall be as detailed as possible outlining all necessary service and operating instructions for the equipment delivered. Manual(s) shall include necessary warnings and safety precautions. It is requested, but not required that the manual(s) be printed on recycled paper.
 - 6.1. The following additional information shall be provided by the vendor at time of delivery, if not included in the manual(s) required above:
 - 6.1.1. Manufacturer's recommended service and preventive maintenance intervals.
 - 6.1.2. Recommended fluids, lubricants, and their SAE equivalents.
7. PARTS AND SERVICE: The manufacturer of the equipment furnished shall have an authorized dealer within the State of Texas. The authorized dealer shall have factory-trained personnel available for performance of service within a radius of 250 miles of Austin, Texas. The dealer shall also maintain an inventory of high-usage parts and a quick source for low-usage parts.

8. INSTALLATION: Vendor shall be responsible for a complete installation of the equipment, excluding physical modifications to the installation site. All cables and accessories necessary for a complete and safe installation shall be provided, including at least 200 plates recommended by the vendor for start-up operations. Vendor shall be responsible for the removal and disposal of any and all crating material from bidder location. Visits shall be arranged by contacting TxDOT representative listed in the solicitation. It is desired that this system be installed in TxDOT facilities prior to August 31, 2006.
9. TRAINING: The vendor shall provide the services of a factory trained technician thoroughly trained in the use and operation of the unit to two TxDOT employees for a minimum of sixteen hours on safety, operation and preventive maintenance of the unit. These services shall be provided after the unit has been delivered and installed and is ready for operation but prior to payment. The training shall take place on TxDOT's premises at a time and date mutually agreed upon by the vendor and TxDOT.
10. WARRANTY: The unit shall be warranted against defects in material and workmanship for a period of not less than 12 months and shall cover 100 percent parts and labor for the unit. If the manufacturer's standard warranty period exceeds 12 months, then the standard warranty period shall be in effect. The vendor shall furnish the manufacturer's warranty at time of delivery. The vendor shall ultimately be responsible for the warranty. The warranty begins on the date the unit is determined to meet specifications and accepted by TxDOT.
11. DELIVERY: Vendor shall refer to the solicitation for delivery instructions.