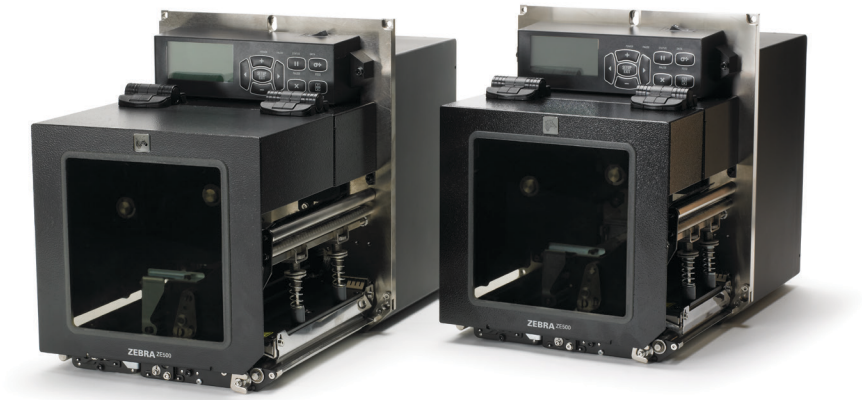
Zebra® ZE500™ Series Print Engine

SEE MORE. DO MORE.



Innovative design, greater benefits

The new ZE500™ Series takes an innovative approach to OEM print engines. Leveraging extensive customer research, the design focuses on ease of use, ease of service and ease of integration. Built with the customer in mind, the ZE500 print engine is designed to keep mission-critical print-and-apply applications operating without interruptions.

The elegant design of the ZE500 simplifies maintenance and dramatically reduces downtime. All three rollers can be exchanged in minutes, with no need to access the printer's electronics. The wide open printhead makes cleaning and replacement simple, and the quick-change modular drive system reduces printer repair time. Expanded RFID features deliver greater tracking capabilities for improved operational efficiency.

Routine operations such as ribbon replacement are simple and straightforward (and identical for both print widths). The new graphical LCD display can be detached from the unit and positioned as suited for the application for improved ease of use.

The user experience is much improved: the design enables easy integration with print-and-apply machinery plus has better resistance to dust and water. Expanded connectivity ports and enhanced software control of the applicator port provides further integration flexibility.

Genuine Zebra™ Supplies

Ensure consistent print quality, reduce downtime and increase productivity in your printing process with genuine Zebra supplies. We manufacture each supplies product with the exact same materials every time so you always get crisp, readable and scannable output without needing to adjust the printer darkness setting between rolls.

Ideal for print-and-apply labeling applications for products, cartons, cases and pallets in:

- Manufacturing and Warehousing
- Automotive
- Pharmaceuticals
- Food and Beverage
- Health and Beauty

SPECIFICATIONS AT A GLANCE*

Printer Name

ZE500-4
ZE500-6

Standard Features

- Print methods: thermal transfer or direct thermal
- Orientation: right-hand or left-hand
- Industrial all-metal construction
- 16 MB SDRAM, 64 MB flash memory
- Applicator interface
- Transmissive and reflective media sensors
- Multi-level Element Energy Equalizer™ (E3™) for superior print quality
- Real-time clock
- Rotatable display
- ZPL II®

Printer Specifications

ZE500-4™:

Maximum print width

- 4.1"/104 mm

Media specification

- Label and liner width: 0.625"/16 mm to 4.5"/114 mm
- Minimum length with back feed: 0.5"/13 mm
- Minimum length without back feed: 0.25"/6.5 mm
- Minimum length in stream mode: 0.25"/6.5 mm
- Maximum length: 39"/990 mm
- Maximum continuous media print length: 150"/3,810 mm
- Ribbon width: 1"/25.4 mm to 4.2"/107 mm

Resolution

- 203 dpi/8 dots per mm or 300 dpi/12 dots per mm

Maximum print speed

- 12"/305 mm per second (203 and 300 dpi)

ZE500-6™:

Maximum print width

- 6.6"/168 mm

Media specification

- Label and liner width: 3"/76 mm to 7.1"/180 mm
- Minimum length with back feed: 3"/76 mm
- Minimum length without back feed: 1"/25.4 mm
- Minimum length in stream mode: 1"/25.4 mm
- Maximum length: 39"/990 mm
- Maximum continuous media print length: 150"/3,810 mm
- Ribbon width: 3"/76 mm to 7.1"/180 mm

Resolution

- 203 dpi/8 dots per mm or 300 dpi/12 dots per mm

Maximum print speed

- 12"/305 mm per second (203 dpi)
- 10"/254 mm per second (300 dpi)

Operating Characteristics

Environmental

- Operating temp.: 31° F/0° C to 104° F/40° C
- Storage temp.: -40° F/-40° C to 160° F/71° C
- Operating humidity: 20% to 95% non-condensing R.H.
- Storage humidity: 5% to 95% non-condensing R.H.

Electrical

- Universal power supply with power-factor correction 90–264 VAC, 47–63 Hz

Agency approvals

- VCCI, CCC
  - — Standards approvals: IEC 60950-1; EN 55022, Class A; EN 55024; EN 61000-3-2, 3-3
  - — Product markings: NRTL; CE; FCC A; ICES-003; VCCI; C-Tick; CCC; NOM; Gost-R; S- Mark; KCC; BSMI

RFID

- Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6C
- Prints and encodes short pitch item level tags
- Variable RFID power settings to support the widest range of tags
- RFID job monitoring tools track RFID performance
- RFID ZPL® commands provide compatibility with existing Zebra RFID printers
- Support for industry multi-vendor chip-based serialization (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 2000
- Integrated ThingMagic® RFID Reader/Encoder

Media Characteristics

Labels

Media thickness (label and liner):

- ZE500-4: 0.0053"/0.135 mm to 0.010"/0.254 mm
- ZE500-6: 0.003"/0.076 mm to 0.012"/0.305 mm

Media types:

- Continuous, die-cut or black mark

Ribbons

- Maximum roll size: 4"/101.6 mm OD on a 1"/25.4 mm ID core
- Standard length: 1,968'/600 m

Physical Characteristics

	ZE500-4	ZE500-6
Width:	9.6"/245 mm	9.6"/245 mm
Depth:	14.9"/379 mm	17.2"/438 mm
Height:	11.8"/300 mm	11.8"/300 mm
Weight:	34 lbs/15.4 kg	38 lbs/17.3 kg

ZebraLink™ Solutions

Software

- ZebraDesigner™ Pro
- ZebraNet™ Bridge Enterprise
- ZBI 2.0™ ZBI-Developer™

Firmware

- ZPL II
- Web View & Alert
- ZBI 2.0

Communication and Interface Capabilities

- Parallel port: Centronics®-compatible
- Serial interface: RS-232
- USB 2.0
- ZebraNet® 10/100 Print Server (internal)
- Applicator interface with DB-15F connector
- Optional ZebraNet b/g Print Server

Fonts/Graphics/Symbologies

Fonts and character sets

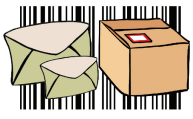
- Zebra Global printing solution including Unicode™
- Swiss 721 font standard
- Bitmap fonts A to H and GS symbols are expandable up to 10 times, height- and width-independent
- Smooth-scalable font Ø (CG Triumvirate™ Bold Condensed) is expandable dot-by-dot, height- and width-independent
- IBM® Code Page 850 International Characters
- Contains UFST® from Agfa Monotype Corporation
- Firmware support for downloadable TrueType™ fonts
- Additional fonts available

Graphics features

- Supports user-defined fonts and graphics, including custom logos

Barcode symbologies

- Barcode ratios: 2:1, 7:3, 5:2, and 3:1
- Linear barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code
- Two-Dimensional: Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, TLC 39, MicroPDF, RSS-14 (and composite), Aztec



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*Specifications subject to change without notice.

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