

R20 MAX Touch Screen Controller With TIJ One Inch Dual Print Heads



The RYAN R20 MAX represents the next generation of RYAN TIJ printers, combining cutting-edge technology with user-friendly design. This advanced printing system features a 7" touch screen controller that connects up to two print heads using One Inch TIJ Technology, delivering high-resolution printing for outer case packaging applications. The R20 printer control system is highly adaptable to your packaging printing needs, offering exceptional versatility and performance. With its intuitive WYSIWYG interface, the R20 MAX makes printing operations simple and efficient. The system achieves maximum 300dpi print quality at speeds up to 40m/min, making it ideal for high-volume production environments. Its sleek and streamlined design ensures easy integration with third-party products, while the variable database function meets requirements across all kinds of applications. The system supports a wide range of print types including text, counters, barcodes (1D & 2D), images, and database-driven content.



Easy to Use

7" Touch screen with intuitive WYSIWYG interface for simple operation and setup



Integration

Sleek & streamlined for easy integration with 3rd party products and production lines



Flexible

Variable database function to meet requirements in all kinds of applications



High Quality

Max. 300dpi print quality with high speed at 40m/min @ 300 x 300 DPI

Simple, Intuitive Operation

- User friendly 7" touchscreen color display with WYSIWYG graphical interface
- Easy to setup and integrate with any production line/devices (PLC, Camera, Check-weigher, etc)
- Built-In Internal Sensors
- Max. 2 head can be controlled by one controller

Excellent Print Quality & Capabilities

- High quality 300 dpi max print resolution
- High speed print at 40m/min at 300dpi
- Print height of up to 1 inch (25.4mm)
- Print length of up to 2m

Technical Specifications & Applications

The R20 MAX is engineered with precision and built for performance. The controller measures 193 x 130.3 x 34.5 mm and weighs 888g, while each printhead measures 216.4 x 49.1 x 77.8 mm and weighs 430g. The system operates on AC 100V-240V, 50/60Hz, DC 24V 2.5A power supply and features a 7" LCD Touch Screen display. With a maximum resolution of 300 DPI and print speed of 40m/min at 300x300 dpi, the R20 MAX delivers exceptional performance with 3 levels of density control and a 5mm throw distance.

The system supports an extensive range of features including multiple print types (text, counter, box/lot, datetime, expiry date, Julian date, shiftcode, image, database), comprehensive 1D & 2D barcodes (Code 11, Code 39, Code 128, EAN, QR, Datamatrix, GS1 Datamatrix), and printable height up to 50.8mm with 2 heads. External connections include built-in sensor, external sensor, encoder and alarm beacon. Database compatibility includes TXT, CSV, SQL, MySQL, SQLite, and JSON formats. Advanced features include POD (Print online data) integration with other devices via RJ45, real-time printing, data upload, backup & recovery via USB, and support for up to 10mm throw distance for characters and 5mm for 2D barcodes.

Printing Technology	1 Inch TIJ
Controller Dimensions	193 x 130.3 x 34.5 mm
Printhead Dimensions	216.4 x 49.1 x 77.8 mm
Display	7" LCD Touch Screen
Power Supply	AC 100V-240V, 50/60Hz, DC 24V 2.5A
Resolutions	Max 300 DPI
Print Speed	40m/min @ 300x300 dpi
Template Length	2m

One-Inch TIJ Technology Advantages

Wide Ink Selection Wide selection of Aqueous & Solvents inks available for diverse substrate compatibility	Minimal Downtime Ink cartridges can be replaced easily with no long start/shutdown procedure to follow	Low Maintenance Minimal printhead cleaning, filter replacements or any maintenance requirements
--	--	---

Industry Applications

The R20 MAX serves diverse industries with versatile printing capabilities across both porous and non-porous substrates. From food and beverage packaging to pharmaceutical labeling, personal care products, and plastic bottles, the system adapts to meet the unique requirements of each application. The printer supports multiple print languages including English (default), Vietnamese, Chinese (PRC), Turkish, Korean, Russian, Japanese, Hebrew, Spanish, Thai, Portuguese and Arabic, with system languages available in English (default), German, Vietnamese, Chinese, Korean, Russian, Turkish, Portuguese, Spanish, Polish, Greek and Italian.

 **Contact Information:** Packtronic Head Office (JHB) - Email: enquiries@packtronic.co.za | Phone: +27 11 956 6692 | Packtronic Winelands (CPT) - Email: salesct@packtronic.co.za | Phone: +27 21 518 0888 | Visit: packtronic.co.za