

## DELIVERY PRODUCT SPECIFICATION

### 1. Scope of application

This Specification specifies the products given in item 2 hereof to be delivered to Messrs. Star Micronics Co., Ltd.

### 2. Product name

RC200B RIBBON

### 3. Product specification

See DWG No. R362CZ2040.

### 4. Inking ribbon specification

See DWG No. R362DI2050.

### 5. Reliability data

Reliability	Quality characteristics	Printing quality, Joint life	Initial printing density: PCS value = 0.65 or more Printing life : 1.2million prints or more Joint life : No holes are caused in joint part after 1.2million prints. Printer used : MP216FP-24 (new printing head used)
		Evaluation conditions (printing quality and joint life)	Test ribbon : Ink impregnated: 17.5%, ribbon length: 3.6 m Printing paper : Wood-free machine-glazed paper 76 x $\phi$ 85 x 1P made by Tokai media Co., Ltd. Life judg't criterion : PCS value = 0.30 (7 slashes, average of 3 characters) Printing conditions : Draft rolling ASCII pattern Printing environment: $23 \pm 3^{\circ}\text{C} \times 60 \pm 20\% \text{RH}$ Printing density measuring meter: Macbeth PCM II Specified filter : A filter
	Functional value (new, non-stored product, measured at normal temperature and humidity)	Torque : $120 \pm 25$ gf-cm (peak value reading, measured by 300 gf-cm torque gauge) Tension : Min.30 gf (measured by weights) Slip torque : Min. difference from the torque - 100 gf-cm (measured by 600gf-cm torque gauge)	
	Operation life test at high temperature	Remarkable decrease of printing life shall not be taken place when operating in the conditions of $50^{\circ}\text{C} \times \text{OFF}$ .	
	Operation life test at high humidity	Remarkable decrease of printing life shall not be taken place when operating in the conditions of $43^{\circ}\text{C} \times 80\% \text{RH}$ .	
	Operation life test at low temperature	Remarkable decrease of printing life shall not be taken place when operating in the conditions of $0^{\circ}\text{C} \times \text{OFF}$ .	
	Storage life test at high temperature	Extreme change of printing life shall no be taken place when storing in the conditions of $70^{\circ}\text{C} \times \text{OFF}$ for 96 Hr followed by restoring to normal temperature and humidity.	
Storage life test at low temperature	Extreme change of printing life shall no be taken place when storing in the conditions of $-20^{\circ}\text{C} \times \text{OFF}$ for 96 Hr followed by restoring to normal temperature and humidity.		

Reliability	Storage life test at high humidity	Extreme change of printing life shall not be taken place when storing in the conditions of 43°C x 95%RH for 96 Hr followed by restoring to normal temperature and humidity.
	Long-term storage life	Storage method : Products shall be stored unsealed packed in box at 5 - 40°C in a place protected from direct sunlight. Guarantee period: Quality characteristics shall be guaranteed for 2 years when stored in these conditions.
	Safety standards	Ink material used in the products shall conform to "Chemicals safety review law", "TSCA", "EINECS" and "Safety regulations on chemical substances in Canada".

Note) Normal temperature and humidity :  $23 \pm 3^{\circ}\text{C} \times 60 \pm 20\% \text{RH}$

## 6. Packing specification

Packing of the products shall be made according to the following drawings:

R360DZ219B

## 7. Others

### (1) Environmental protection

Any ion-destructing substances of class I are not applied for the products proper and their assembly (directly contained and used in production process).

### (2) Revision

Alteration of description of the Specification shall be discussed by the parties concerned.

(3) If any problems will occur, internal control data shall be notified (only permitted to submit).

(4) Any description of the Specification is prohibited to disclose partially or wholly without our permission.

Drawings attached:

Product name	Spec.	Drawing No.	Rev.
RC200B CASSETTE RIBBON ASSEMBLY DRAWING	—	R362CZ2040	—
INK RIBBON RC200B	—	R362DI2050	—
EXPORT PACKAGE SET FOR RC200	RC200B	R360DZ219B	—