

# Rhino SD3/XD3 Barcode Reader

## Material container and unloader barcode specifications

The Barcode Reader prevents the accidental loading of incorrect or expired material into the dispense system, along with a time-stamped log of material container changes for tracking material usage.

### Equipment

The system consists of a handheld barcode scanner and interface box mounted to the Rhino XD3 or SD3 frame. The handheld scanner reliably decodes all major 1D (linear) barcodes, 2D stacked codes (such as PDF417), 2D matrix symbols (such as Data Matrix), QR codes (such as QR, Micro QR and multiple QR codes), postal codes (such as POSNET, PLANET).

### Unloader Barcode Label

Individual barcode labels must be attached to each Rhino XD3 or SD3 to identify the unloader to the dispense controller. These labels are included with each barcode assembly.

- “BLPUMP 1A”
- “BLPUMP 1B”
- “BLPUMP 2A”
- “BLPUMP 2B”



### Example Drum Label

In this example, only one barcode contains the continuous data string with semicolon delimiters.

Part Number (P) <b>4601</b>		
Quantity (Q) <b>54</b>	GL	Mfg. Date <b>07FEB2017</b>
		Do Not Use After <b>03SEP2017</b>
BETAMATE(TM) 4601 Structural Adhesive		
Supplier (S)		
Serial (SI) <b>103726003</b>	2152458	
Ship From: The Dow Chemical Company 190 URAN ST., HILLSDALE, MI 49242 US		
Ship To: KRAYDEN INC., 18330 SUTTER BLVD., HOBAN HILL, CA 95037-2843 US		
Lot # <b>D419H26EBE</b>		

Data from the label (left)	2D Matrix Barcode Contents
Part Number: 4601	P4601;
Quantity: 54	Q54;
Serial Number: 103726003	S103726003;
Lot Number: # D419H26EBE	1TD419H26EBE;
Do not use after: 03SEP2017	14D03SEP2017

Each entry is followed by a semicolon unless it is the last entry. Below is what the barcode reads when the 2D matrix (the square pattern) in the label to the left is scanned:

**P4601;Q54;S103726003;1TD419H26EBE;14D03SEP2017**



# Material container barcode label specifications

Ensure your material container barcodes are compatible with the Rhino XD3 and SD3 Barcode Reader to avoid pumping incorrect or expired material.

## Specifications

The material container barcode label must contain the data listed below, following these rules:

1. The data string must use semicolon delimiters between fields
2. No special characters are permitted i.e., -, +, @, #, \$, &
3. A single (optional) space character is allowed between a semicolon delimiter and the next prefix.

Data Field	Prefix	Description
Material Part Number	P	Must start with an upper-case "P" and the following string can have a variable length up to 20 characters long. The characters can be numbers or upper-case letters. The string must end with a semicolon ";".
Quantity	Q	Must start with an upper-case "Q" and the following string can be up to 3 characters long. The characters must be numbers. The string must end with a semicolon ";".
Serial Number	S	Must start with an upper-case "S" and the following string can have a variable length up to 20 characters long. The characters can be numbers or upper-case letters. The string must end with a semicolon ";".
Lot Number	1T	Must start with the number 1 and then an upper-case T "1T" and the following string can have a variable length up to 20 characters long. The characters can be numbers or upper-case letters. The string must end with a semicolon ";".
Expiration Date	14D	Must start with the number 14 and then an upper-case D "14D" and the following string must be two numbers long for the day "31", if not two numbers long you must have a leading zero "01", then must have three upper-case letters for the month "DEC", and then four numbers for the year "2099".

## Acceptable Data Strings

Example of an **acceptable** data string used to build a 2-dimensional barcode:

**P01234567890123456789;Q123;S01234567890123456789;1T01234567890123456789;14D31DEC2099**

Example of an **acceptable** data string with leading spaces being present:

**P01234567890123456789; Q123; S01234567890123456789; 1T01234567890123456789; 14D31DEC2099**

## Unacceptable Data Strings

Example of an **unacceptable** data string due to special characters:

**P0123456789!@#%&\*();Q!@#;S0123456789!@#%&\*();1T0123456789!@#%&\*();14D31DEC2099**



Contact a Nordson Representative or scan the QR code on your mobile device for further assistance.