

Calculating Parts Per 22" Reel



Reel Size: (OD: 22" ID: 4")

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For 7" click [here](#).

For 13" Standard click [here](#).

For 13" Wide click [here](#).

For custom sizes click [here](#).

Setting Up Your Own Excel Worksheet

Using Microsoft Excel® to determine parts per 22" take-up reel is easy. To begin, you will need the pocket depth and pitch of your carrier tape. All numbers are referenced in millimeters. Proceed as follows:

Step-by-Step Instructions:

- Open a new Microsoft Excel® worksheet.
- In cell A1 record the value of your carrier tape pocket depth in mm's.
- In cell A2 record the value of your carrier tape pitch in mm's.
- In cell A3 cut and paste the following formula:
=ROUNDDOWN(((237.14/(\$A\$1+0.31))-1)*(1000/\$A\$2),-1)
- The value supplied in cell A3 will represent the maximum number of parts that can fit on one 22-inch take-up reel that has a 4-inch center core.

Keep in mind that this number is the practical maximum. In theory more pockets may be able to fit. It is often best to round down to the nearest 250, 500, or 1000-mark for an optimal selling count. This formula already allows for leader and trailer in setting the final reel count. For other reel sizes, please contact us to request the proper formula by using our [contact](#) sheet.

Here Is An Example:

- In cell A1 record 4.90 as the value of your carrier tape pocket depth in mm's.
- In cell A2 record 16.00 as the value of your carrier tape pitch in mm's.
- In cell A3 cut and paste the following formula:
=ROUNDDOWN(((237.14/(\$A\$1+0.31))-1)*(1000/\$A\$2),-1)
- The value supplied in cell A3 should be 2,780.
- In this case after rounding down to the nearest 250, we would suggest 2,500 parts per reel.

OX3's semiconductor handling services are supported by four web sites at [OX3.com](#) for services, [Reelpak.com](#) for carrier tapes, [Reel.biz](#) for reels, and [Traymania](#) for JEDEC Trays."