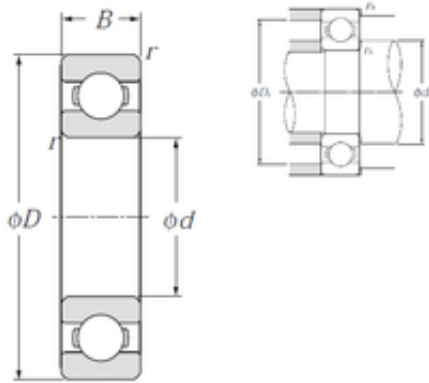




# FAG BEARING LIMITED

## NTN Deep Groove Ball Bearing 6210 Zz



Bearing No. 6210

|                               |             |
|-------------------------------|-------------|
| Size                          | 50x90x20 mm |
| Bore Diameter                 | 50 mm       |
| Outer Diameter                | 90 mm       |
| Width                         | 20 mm       |
| d                             | 50 mm       |
| D                             | 90 mm       |
| B                             | 20 mm       |
| C                             | 20 mm       |
| r min.                        | 1,1 mm      |
| da min.                       | 56,5 mm     |
| da max                        | 60 mm       |
| Da max.                       | 83,5 mm     |
| ra max.                       | 1 mm        |
| Weight                        | 0,454 Kg    |
| Basic dynamic load rating (C) | 35 kN       |
| Basic static load rating (C0) | 23,2 kN     |
| (Grease) Lubrication Speed    | 7 100 r/min |
| (Oil) Lubrication Speed       | 8 300 r/min |
| rs min                        | 1.1 mm      |
| Radial clearance class        | CN          |
| Mass                          | 0.45 kg     |
| Dynamic load, C               | 35 kN       |
| Static load, C0               | 23.2 kN     |
| Fatigue limit load, Cu        | 1.05 kN     |
| f0                            | 14.4        |
| Nlim (oil)                    | 8,300 rpm   |

6210 Bearing 2D drawings and 3D CAD models



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|   |                          |
|---|--------------------------|
| Nlim (grease)                                 | 7,100 rpm                |
| Min operating temperature, Tmin               | -20 ° C                  |
| Max operating temperature, Tmax               | 120 ° C                  |
| Characteristic cage frequency, FTF            | 0.41 Hz                  |
| Characteristic rolling element frequency, BSF | 5.33 Hz                  |
| Characteristic outer ring frequency, BPF0     | 4.09 Hz                  |
| Characteristic inner ring frequency, BRF1     | 5.91 Hz                  |
| da min  | 56.5 mm                  |
| Da max  | 83.5 mm                  |
| ra max  | 1 mm                     |
| Category                                      | Single Row Ball Bearings |
| Inventory                                     | 0.0                      |
| Manufacturer Name                             | NTN                      |
| Minimum Buy Quantity                          | N/A                      |
| Weight / Kilogram                             | 0.454                    |
| EAN   | 4547359004793            |
| Product Group                                 | B00308                   |
| Enclosure                                     | Open                     |
| Precision Class                               | ABEC 1   ISO P0          |
| Maximum Capacity / Filling Slot               | No                       |
| Rolling Element                               | Ball Bearing             |
| Snap Ring                                     | No                       |
| Internal Special Features                     | No                       |
| Cage Material                                 | Steel                    |
| Internal Clearance                            | C0-Medium                |
| Inch - Metric                                 | Metric                   |
| Long Description                              | 50MM Bore; 90MM          |



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|                          |  |
|--------------------------|--|
|                          | Outside Diameter; 20MM<br>Outer Race Width; Open;<br>Ball Bearing; ABEC 1   ISO<br>P0; No Filling Slot; No Snap<br>Ring; No Internal Special<br>Features; C0-Medium<br>Internal Clearance; Steel<br>Cage |
| Other Features           | Deep Groove  |
| Category                 | Single Row Ball Bearing  |
| UNSPSC                   | 31171504   |
| Harmonized Tariff Code   | 8482.10.50.68  |
| Noun                     | Bearing  |
| Keyword String           | Ball   |
| Manufacturer URL         | <a href="http://www.ntnamerica.com">http://www.ntnamerica.com</a>  |
| Manufacturer Item Number | 6210   |
| Weight / LBS             | 1.02   |
| Bore                     | 1.969 Inch   50 Millimeter   |
| Inner Race Width         | 0 Inch   0 Millimeter  |
| Outside Diameter         | 3.543 Inch   90 Millimeter   |
| Outer Race Width         | 0.787 Inch   20 Millimeter   |
| bore diameter:           | 50 mm  |
| precision rating:        | Class 0  |
| outside diameter:        | 90 mm  |
| finish/coating:          | Uncoated   |
| overall width:           | 20 mm  |
| bearing material:        | High Carbon Chrome Steel   |
| bore type:               | Round  |
| cage material:           | Steel  |
| closure type:            | Open   |
| inner ring width:        | 20 mm  |
| row type & fill slot:    | Single Row Non-Fill Slot   |
| outer ring width:        | 20 mm  |
| snap ring included:      | Without Snap Ring  |



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|                              |                            |
|------------------------------|----------------------------|
| maximum rpm (grease):        | 7100 rpm                   |
| internal clearance:          | CN                         |
| maximum rpm (oil):           | 8300 rpm                   |
| operating temperature range: | -40 to 120 ° C             |
| fillet radius:               | 1.1 mm                     |
| dynamic load capacity:       | 35000 N                    |
| manufacturer product page:   | <a href="#">Click here</a> |
| static load capacity:        | 23200 N                    |