

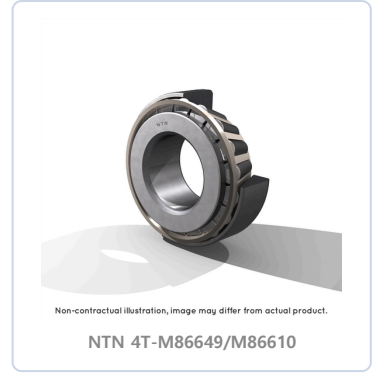
NTN

# 4T-M86649/M86610

Tapered roller bearings

TAPERED ROLLER BEARINGS

**테이퍼 롤러 베어링** — 테이퍼 롤러 베어링은 원뿔형 롤러와 내·외륜 궤도가 한 점에서 만나는 설계로, 큰 경방향 하중과 한 방향의 축방향 하중을 동시에 효율적으로 지지합니다. 보통 2열로 마주 보게 장착해 양방향 하중과 강성을 확보하며, 자동차 휠 허브, 변속기, 건설·광산 장비 등 중하중 용도에 표준적으로 사용됩니다.



### BOUNDARY DIMENSIONS / 경계 치수

|                         |                              |                  |
|-------------------------|------------------------------|------------------|
| <b>d</b>                | inner diameter               | <b>30.162 mm</b> |
| <b>D</b>                | outer diameter               | <b>64.292 mm</b> |
| <b>B</b>                | width                        | <b>21.433 mm</b> |
| <b>d</b>                | Internal diameter            | <b>30,162 mm</b> |
| <b>D</b>                | External diameter            | <b>64,292 mm</b> |
| <b>B</b>                | Bearing/Inner ring width     | <b>21,433 mm</b> |
| <b>C</b>                | Outer ring width             | <b>16,67 mm</b>  |
| <b>T</b>                | Total width                  | <b>21,433 mm</b> |
| <b>d1</b>               | External diameter inner ring | <b>50 mm</b>     |
| <b>e</b>                | Coefficient                  | <b>0.55</b>      |
| <b>ra</b><br><b>max</b> | Max fillet radius            | <b>1,5 mm</b>    |
| <b>r1a</b>              | Max fillet radius            | <b>1,5 mm</b>    |

### SPEED / 한계 속도

|                        |                                |                    |
|------------------------|--------------------------------|--------------------|
| <b>N<sub>lim</sub></b> | Oil lubrication limit speed    | <b>8100 tr/min</b> |
| <b>N<sub>lim</sub></b> | Grease lubrication limit speed | <b>6100 tr/min</b> |

### MOUNTING DIMENSIONS / 장착 치수

|                         |                          |              |
|-------------------------|--------------------------|--------------|
| <b>da</b><br><b>max</b> | Max shoulder diameter IR | <b>38 mm</b> |
| <b>db</b><br><b>min</b> | Min IR shoulder diameter | <b>41 mm</b> |
| <b>Da</b><br><b>max</b> | Max shoulder diameter OR | <b>54 mm</b> |
| <b>Db</b><br><b>min</b> | Min OR shoulder diameter | <b>61 mm</b> |

### LOAD RATINGS / 정격 하중

|                      |                               |                  |
|----------------------|-------------------------------|------------------|
| <b>a</b>             | Charge load application point | <b>18,133 mm</b> |
| <b>C</b>             | Dynamic load                  | <b>57,5 kN</b>   |
| <b>C<sub>0</sub></b> | Static load                   | <b>64,5 kN</b>   |
| <b>C<sub>u</sub></b> | Fatigue limit load            | <b>7,9 kN</b>    |
| <b>Y<sub>0</sub></b> | Static axial load coefficient | <b>0.6</b>       |
| <b>Y<sub>2</sub></b> | Upper axial load coefficient  | <b>1.1</b>       |

### TEMPERATURE / 온도

|                        |                           |               |
|------------------------|---------------------------|---------------|
| <b>T<sub>min</sub></b> | Min operating temperature | <b>-40 °C</b> |
| <b>T<sub>max</sub></b> | Max operating temperature | <b>120 °C</b> |

### OTHER / 기타

|                      |                         |                 |
|----------------------|-------------------------|-----------------|
| <b>≈m</b>            | weight                  | <b>336 kg</b>   |
|                      | Mass                    | <b>0,336 kg</b> |
| <b>A<sub>2</sub></b> | Rating life coefficient | <b>1</b>        |