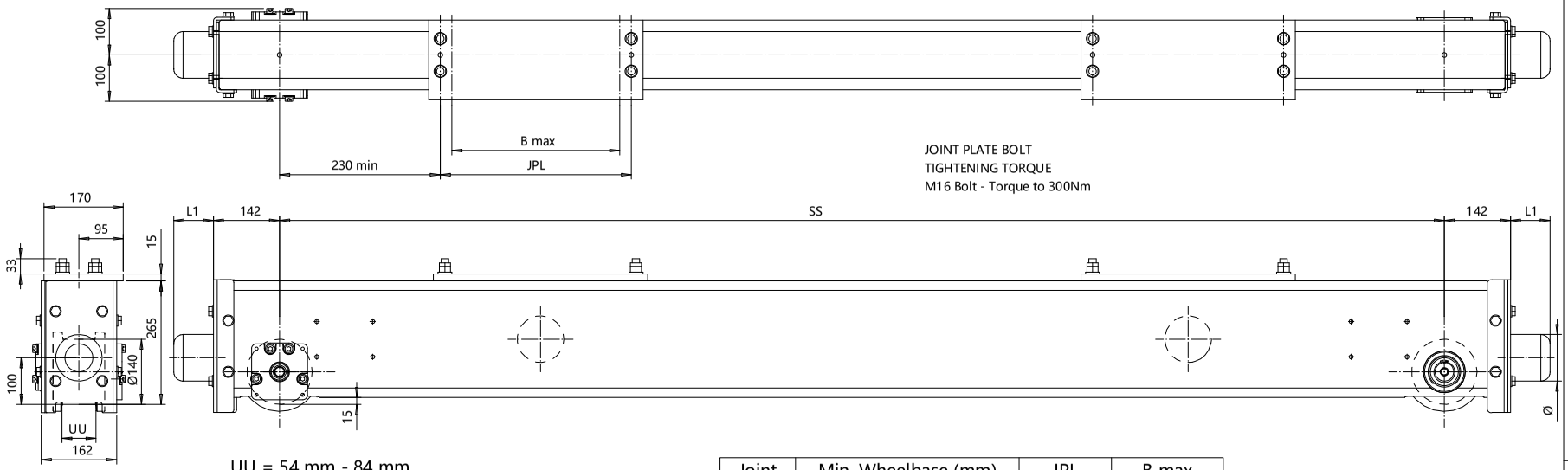
This document is the absolute property of R&M Materials Handling, Inc. This document must not be copied without the written permission of R&M Materials Handling, Inc.
The contents thereof must not be disclosed to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted.

| Rev | Explanation | Date | Revised by | Checked by |
|---|---|---|---|---|
| | | | | |

# RTN14 END TRUCK TOP JOINT PLATE TYPE A




JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 300Nm

UU = 54 mm - 84 mm

Product Code example

RTN14-2574-A40990C0000-N

- N=standard, E=Special
- -primer paint, color code
- (not in use)
- Buffer type
- Joint plate distance (pin to pin, with double DG girder) (driving wheel to pin with asymmetrical single SG girder)
- Joint plate code
- - =1WD, D =2WD (Number of driving wheels/end carriage)
- Wheel groove = UU
- Wheel base = SS
- - =std, C=asymmetrical joint
- Type of end carriage

| Joint plate | Min. Wheelbase (mm) Trolley gage=1200 mm | JPL (mm) | B max (mm) |
|---|---|---|---|
| A4 | 2500; DG | 410 | 360 |
| A6 | 2500; DG | 700 | 550 |

The wheel loads listed are only a guideline. The max. wheel load listed is based on the structural integrity of the frame and load placement, and it does not take into account permissible wheel loading or bearing life. SG load placement is at the center, and DG load placement is for a trolley gage of 1400 mm [55 1/8"].
The permissible dynamic wheel load listed is based on assumptions that the bridge speed is 40 m/min [130 fpm], end truck duty is Fem 2m, and the runway rail as listed.
The actual wheel load should not exceed the permissible wheel load. If the permissible dynamic wheel load is greater than the maximum dyn wheel load, then the actual wheel load cannot exceed maximum dyn wheel load.
Dyn wheel load = 1.15 x Static wheel load

| Buffer type | L1 (mm) | Ø (mm) |
|---|---|---|
| A | 53 | 63 |
| B | 68 | 80 |
| C | 85 | 100 |
| D | 105 | 125 |
| K | 80 | 80 |
| G | 100 | 100 |
| E | 150 | 100 |
| F | 190 | 125 |
| M | 125 | 125 |
| H | 160+100 | 160 |
| P | 240+100 | 160 |
| A, B, C, D rubber | | |
| K, G, E, M, F, H, P polyurethane | | |

| Wheelbase code | SS (mm) | Max dyn whl load, (kN) SG | Max dyn whl load, (kN) DG | Perm dyn whl load, (kN) ASCE 30 | Perm dyn whl load, (kN) ASCE 40 | Perm dyn whl load, (kN) ASCE 60 | Approx Wgt / Trk (kg) SG | Approx Wgt / Trk (kg) DG |
|---|---|---|---|---|---|---|---|---|
| 16 | 1600 | 55 | 55 | 37.6 | 43 | 58 | 131 | 140 |
| 20 | 2000 | 55 | 55 | 37.6 | 43 | 58 | 150 | 159 |
| 25 | 2500 | 55 | 55 | 37.6 | 43 | 58 | 173 | 182 |
| 32 | 3150 | 55 | 55 | 37.6 | 43 | 58 | 203 | 212 |
| 35 | 3500 | 48 | 55 | 37.6 | 43 | 58 | 220 | 229 |
| 40 | 4000 | 32 | 37 | 37.6 | 43 | 58 | 243 | 252 |

| Pos | Description | Specification | Id | Drawing |
|---|---|---|---|---|
| | | | | |

| | | | |
|---|---|---|---|
| ETTVPH Design | ETTVPH Chd | Appd | Ref Drawing |
| 2008-10-14 Date | END TRUCK | | 1 : 6 |
| SLEQDOCV Owner Dept | OUTLINE DRAWING | | Folder ECN14 |
| R&M MATERIALS HANDLING | RTN14-A | | |
| | RTN14 END TRUCK TOP JOINT | | Issue 08/2025 |