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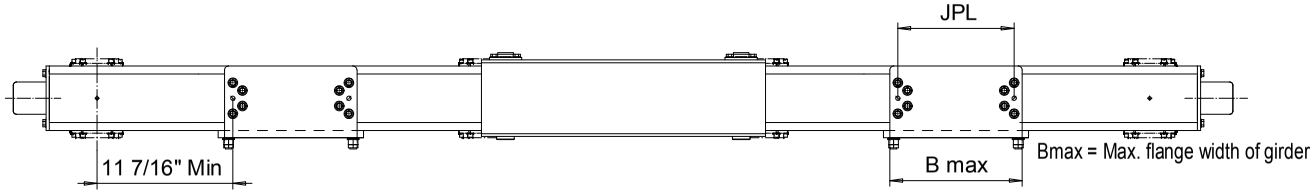
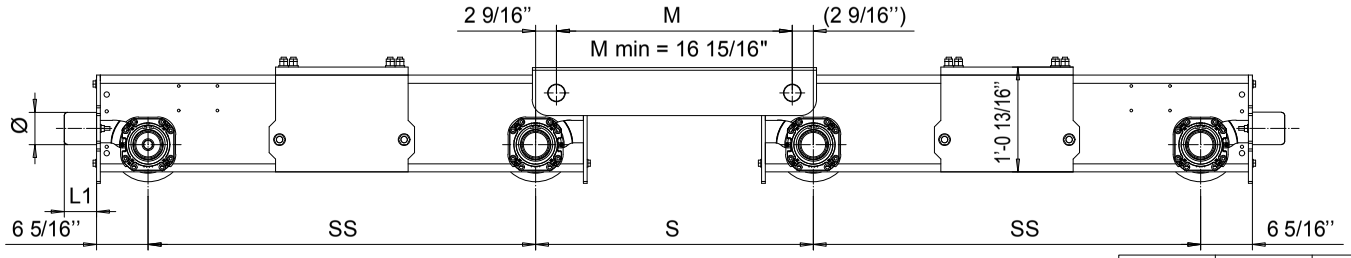
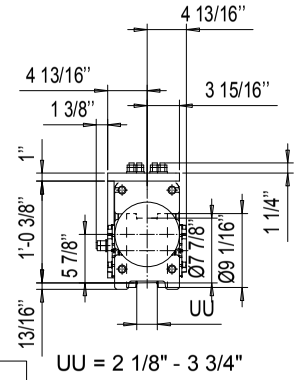
Included in

RTN20B END TRUCK SIDE JOINT PLATE TYPE R



JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 221 ft-lb
M20 Bolt - Torque to 427 ft-lb





(Product Code example)

RTN20B1274-R31540C0860-N

- N=standard, E=Special
- -primer paint, color code
- Inner wheel distance =S
- Buffer type
- Joint plate distance =PP; (pin to pin, with double girder)
- Joint plate code
- - =1WD, D =2WD
- Wheel groove =UU
- Wheel base =SS
- - B =bogie
- Type of end carriage

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	Ø
B	2 11/16"	3 3/16"
C	3 5/16"	3 15/16"
D	4 1/8"	4 15/16"
K	3 3/16"	3 3/16"
G	3 15/16"	3 15/16"
E	5 15/16"	3 15/16"
F	7 1/2"	4 15/16"
H	6 5/16"	6 5/16"
I	7 7/8"	7 7/8"
M	4 15/16"	4 15/16"
P	9 7/16"	6 5/16"
S	11 13/16"	7 7/8"
B, C, D rubber		
K, G, E, F, H, I, M, P, S polyurethane		

Joint plate	JPL	B max
R3	9.84"	11 13/16"
R4	14.17"	16 1/8"
R5	18.5"	20 1/2"
R6	22.83"	24 13/16"

Wheel base	SS	Max dyn whl load	Permissible dyn whl load, (kip)			Approx. Weight
Code		(kip)	ASCE 40	ASCE 60	ASCE 85	(lb)
12	3'-11 1/4"	29.7	14.8	19.8	22	1034
14	4'-7 1/8"	29.7	14.8	19.8	22	1098
16	5'-3"	29.7	14.8	19.8	22	1162
18	5'-10 7/8"	29.7	14.8	19.8	22	1226
20	6-6 3/4"	29.7	14.8	19.8	22	1290

Pos	Description	Specification	Id	Drawing
ETTVPH Design		ETTVPH Chd	Appd	Ref Drawing
2008-05-23 Date		END TRUCK OUTLINE DRAWING		1:10
Dept		RTN20B-R		Folder ECN20
R&M MATERIALS HANDLING INC.	R&M MATERIALS HANDLING, INC. HOIST & CRANE PRODUCTS SPRINGFIELD, OHIO	RTN20B END TRUCK SIDE JOINT		Issue 03/2011