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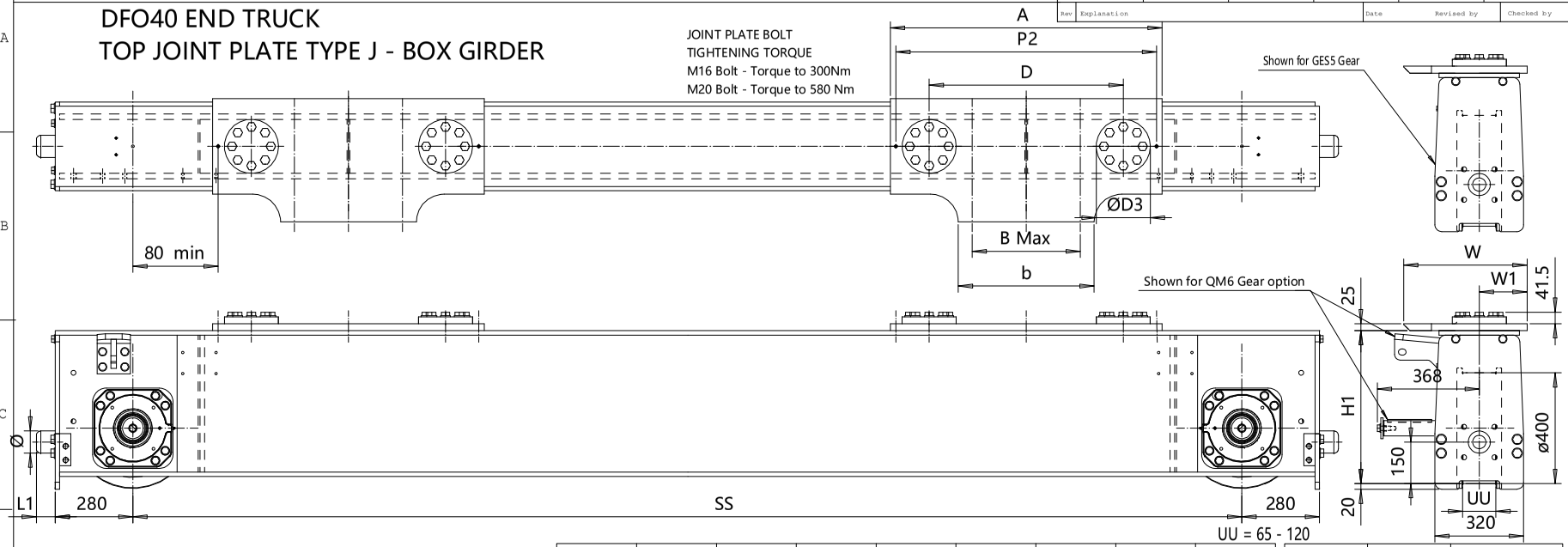
Included in				
Rev	Explanation	Date	Revised by	Checked by

DFO40 END TRUCK
TOP JOINT PLATE TYPE J - BOX GIRDER

JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 300Nm
M20 Bolt - Torque to 580 Nm



DFO40-4075-J11505B0000-N

Joint plate	A	B max	b	D	P2	W	W1	Weight/pc
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
J1	980	390	490	700	940	445	173	86
J2	1230	645	745	950	1190	445	173	107
J3	1580	945	1045	1300	1540	445	173	136
J4	1080	390	490	730	1040	475	188	101
J5	1300	645	745	950	1260	475	188	103
J6	1680	945	1045	1330	1640	475	188	155
J7	1100	510	610	820	1060	445	173	96
J8	1200	510	610	850	1160	475	188	112
J9	1350	760	860	1070	1310	445	173	121
J0	1450	760	860	1070	1410	475	188	135

Buffer type	L1, (mm)	Ø, (mm)
B	68	80
C	85	100
D	105	125
E	150	100
F	190	125
H	160	160
I	200	200
M	125	125
P	240	160
S	300	200
T	350	250
Y	475	250
B, C, D rubber		
E, F, H, I, M, P, S, T, Y polyurethane		

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 32 m/min [100 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.

Wheelbase	SS	Max dyn whl load, (kN)		Perm dyn whl load, (kN)		Approx Wt.*/Trk, kg		H1
code	(mm)	SG	DG	ASCE 85	BETH 135	SG	DG	(mm)
25	2500	350	---	224.5	296	1031	---	548
32	3150	350	350	224.5	296	977	1063	548
40	4000	350	350	224.5	296	1210	1296	552
45	4500	350	350	224.5	296	1337	1423	668
50	5000	350	350	224.5	296	1524	1610	672
55	5500	350	350	224.5	296	1640	1726	672

*Approximate weight of end truck assumes GES5 drive wheel and J1 joint plate.
QM6 drive parts adds extra weight.

	Weight, kg
QM6	33

ETTPIA Design	ETTPIA Chd	Appd	Ref Drawing
2008-08-11 Date	END TRUCK		1 : 7
SLEQDOCV Dept	OUTLINE DRAWING		Folder ECN40
DEMAG	DFO40-J		
	DFO40 END TRUCK J JOINT		Issue 08/2025