

**DLT** Engineering

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**INFORMATION** 

DO NOT SCALE

SAFE WORKING LOAD (SWL) PER LIFT POINT TABULATED BELOW. MAXIMUM LIFT

LOAD PER HEAD BEAM

Should there be any doubt regarding the interpretation of any information given on this drawing, enquiries should be directed to DLT Engineering at the address given below before executing such part of the works.

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NOTES

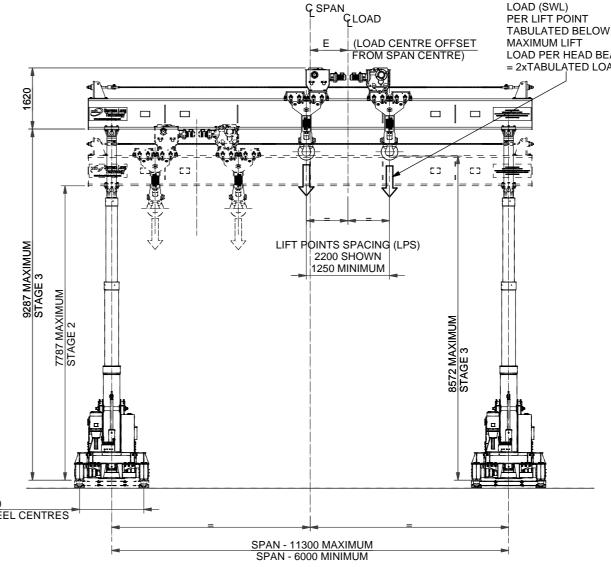
DUTY CHARTS ASSUME THE FOLLOWING:-

This drawing has been produced by DLT Engineering in accordance with he instructions of the client for their sole and specific use DLT Engineering shall not be liable for the use of any information

contained on this drawing for any purpose other than that for which it was specifically prepared and provided.

- STANDARD DL-TLG400 COMPONENTS WITH DL-TLG400 HEAD BEAM
- 2 No. LIFT POINTS EQUALLY LOADED PER HEAD BEAM
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLÈRANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG400 STANDARD TRACK SECTIONS USED WITH 1.0m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.7m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE

IF THE DL-TLG400 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THIS DRAWING, CONTACT DLT ENGINEERING FOR SPECIFIC SAFE WORKING LOADS AND ANY SPECIAL CONDITIONS THAT MAY APPLY



STAGE 1: HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3787 TO LEVEL 5787

SPAN - 11300 MAXIMUM SPAN - 6000 MINIMUM

c SPAN

TOP OF RAIL

5072 MAXIMUM STAGE 1

[]

7407 5787 MAXIMUM STAGE 1 3787 MINIMUM STAGE 0

1000 OR 1700

WHEEL CENTRES

€ LOAD

LIFT POINTS

SPACING (LPS)

**2200 SHOWN** 1250 MINIMUM

LOAD CENTRE OFFSET

FROM SPAN CENTRE

## STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7787 STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9287

	SPAN 11.30m						
	SAFE WORKING LOAD (SWL)						
		IFT PO	INT [TO	ONNES			
	LIFT POINTS SPACING	-			FSET E		
STAGE	LPS [m]	0.00	1.00	2.00	3.00	4.00	
1		62.5	63.4	69.7	61.5	55.0	
2	1.25	62.5	63.4	69.7	61.5	55.0	
3		62.5	55.0	47.6	41.9	37.4	
1		68.0	68.0	69.8	61.5		
2	2.00	68.0	68.0	69.8	61.5		
3		65.1	55.0	47.6	41.9		
1		76.7	75.0	69.8	61.5		
2	3.00	76.7	75.0	69.8	61.5		
3		65.1	55.0	47.6	41.9		
1		87.9	80.5	69.8			
2	4.00	87.9	80.5	69.8			
3		65.1	55.0	47.6			
1		95.1	80.5	69.8			
2	5.00	95.1	80.5	69.8			
3		65.1	55.0	47.6			
1		95.1	80.5				
2	6.00	95.1	80.5				
3		65.1	55.0				
1		95.1	80.5				
2	7.00	95.1	80.5				
3		65.1	55.0				
1		95.1					
2	8.00	95.1					
3		65.1					
1		95.1					
2	9.00	95.1					
3		65.1					

CD A N 44 20m

	SAFE WORKING LOAD (SWL)						
	PER	PER LIFT POINT [TONNES]					
	LIFT POINTS SPACING		CENTRE ROM SPA				
STAGE	LPS [m]	0.00	1.00	2.00	3.00		
1		72.5	73.9	67.4	58.8		
2	1.25						
3		65.1	53.9	46.0	40.1		
1		79.8	78.9	67.4	58.8		
2	2.00	79.8	78.9	67.4	58.8		
3		65.1	53.9	46.0	40.1		
1		91.9	78.9	67.4	58.8		
2	3.00	91.9	78.9	67.4	58.8		
3		65.1	53.9	46.0	40.1		
1		95.1	78.9	67.4			
2	4.00	95.1	78.9	67.4			
3		65.1	53.9	46.0			
1		95.1	78.9	67.4			
2	5.00	95.1	78.9	67.4			
3		65.1	53.9	46.0			
1		95.1	78.9				
2	6.00	95.1	78.9				
3		65.1	53.9				
1		95.1	78.9				
2	7.00	95.1	78.9				
3		65.1	53.9				
1		95.1					
2	8.00	95.1					
3		65.1					
1		95.1					
2	9.00	95.1					
3		65.1					
	9.00						

SPAN 10 00m

	SPAN 9.00m						
SAFE WORKING LOAD (SWL)							
PER LIFT POINT [TONNES]							
	LIFT POINTS SPACING		CENTRE				
STAGE	LPS [m]	0.00	1.00	2.00	3.00		
1		82.5	77.5	65.3	56.4		
2	1.25	82.5	77.5	65.3	56.4		
3		65.1	52.9	44.5	38.4		
1		91.9	77.5	65.3	56.4		
2	2.00	91.9	77.5	65.3	56.4		
3		65.1	52.9	44.5	38.4		
1		95.1	77.5	65.3			
2	3.00	95.1	77.5	65.3			
3		65.1	52.9	44.5			
1		95.1	77.5	65.3			
2	4.00	95.1	77.5	65.3			
3		65.1	52.9	44.5			
1		95.1	77.5				
2	5.00	95.1	77.5				
3		65.1	52.9				
1		95.1	77.5				
2	6.00	95.1	77.5				
3		65.1	52.9				
1		95.1					
2	7.00	95.1					
3		65.1					
1		95.1					
2	8.00	95.1					
3		65.1					

			0.455.11	SPAN 8.00				
		SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]						
				IFT POINT	TONNES			
ΓΕ [m]			LIFT POINTS		NTRE OFFS			
RE			SPACING		A SPAN CEN			
3.00		STAGE	LPS [m]	0.00	1.00	2.00		
56.4		1		95.1	75.7	62.		
56.4		2	1.25	95.1	75.7	62.		
38.4		3		65.1	51.7	42.		
56.4		1		95.1	75.7	62.		
56.4		2	2.00	95.1	75.7	62.		
38.4 3	3		65.1	51.7	42.			
	1		95.1	75.7	62.			
		2	3.00	95.1	75.7	62.		
		3		65.1	51.7	42.		
		1		95.1	75.7			
		2	4.00	95.1	75.7			
		3		65.1	51.7			
		1		95.1	75.7			
		2	5.00	95.1	75.7			
		3		65.1	51.7			
		1		95.1				
		2	6.00	95.1				
		3		65.1				
		1		95.1	ĺ			
		2	7.00	95.1				
		3		65.1				
	'							

	ER LIFT P	_	AD CENT	RE
	POINTS		T E [m]	
	SPACING		N CENT	
STAGE	LPS [m]	0.00	1.00	2.00
1		95.1	73.6	59.9
2	1.25	95.1	73.6	59.9
3		65.1	50.2	40.8
1		95.1	73.6	59.9
2	2.00	95.1	73.6	59.9
3		65.1	50.2	40.8
1	3.00	95.1	73.6	
2		95.1	73.6	
3		65.1	50.2	
1		95.1	73.6	
2	4.00	95.1	73.6	
3		65.1	50.2	
1		95.1		
2	5.00	95.1		
3		65.1		
1		95.1		
2	6.00	95.1		
3		65.1		

	LIFT POINTS	LOAD C OFFSET E	[m] FROM
STAGE	SPACING LPS [m]	0.00	1.00
1		95.1	70.9
2	1.25	95.1	70.9
3		65.1	48.4
1	2.00	95.1	70.9
2		95.1	70.9
3		65.1	48.4
1		95.1	70.9
2	3.00	95.1	70.9
3		65.1	48.4
1		95.1	
2	4.00	95.1	
3		65.1	
1		95.1	
2	5.00	95.1	
3		65.1	

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE SEE ALSO OPERATION AND MAINTENANCE MANUAL



DL-TLG400 TELESCOPIC LIFTING GANTRY

LIFTING ARRANGEMENT AND DUTY CHARTS 2 No. LIFT POINTS LOADED PER HEAD BEAM

**DLT Engineering** 

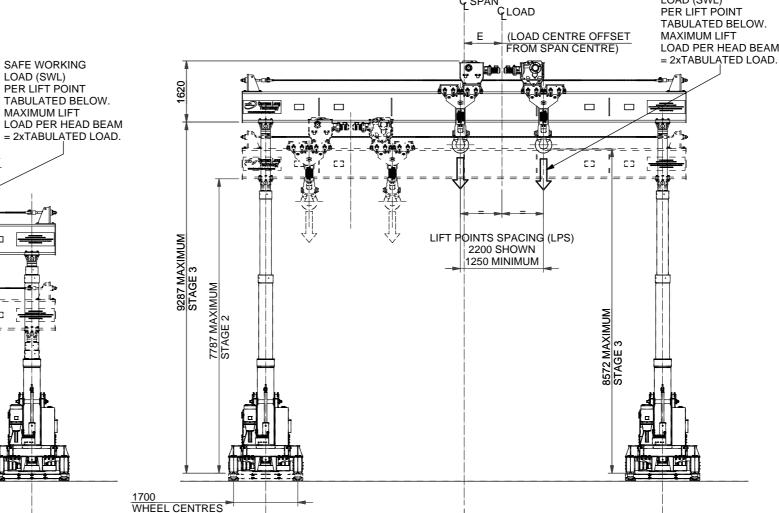
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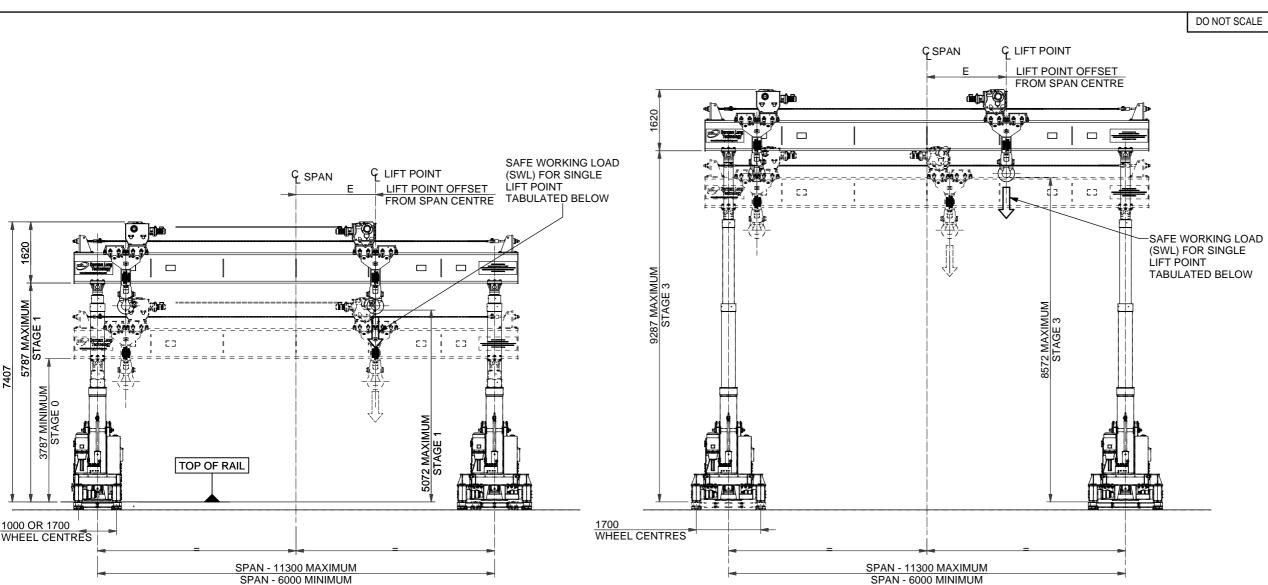
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$\blacksquare$	Design Eng: JM	Checking Eng: P	ď
$\Psi$	Drawn by: SG	Project Eng: SA	ιB
Scales (At A3) AS SHOWN	Drawing Status INFORI	MATION	1
Original Drawing size: A3	1		- 1

DL-TLG400-005-01





STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3787 TO LEVEL 5787 STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7787 STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9287

SPAN 11.30m							
	SAFE WORKING LOAD (SWL)						
			и́иотן тиі	,			
	SINGLE LIFT POINT LOADED						
	LIFT POI	LIFT POINT OFFSET E [m] FROM SPAN CENTRE					
STAGE	0.00	1.00	2.00	3.00	4.00		
1 AND 2	100.0	100.0	100.0	100.0	100.0		
3	100.0	100.0	94.7	83.6	76.3		

SPAN 10.00m							
	SAF	E WORKIN	IG LOAD (S	SWL)			
	PE	R LIFT POI	NT [TONN	ES]			
	SINGLE LIFT POINT LOADED						
	LIFT POI	LIFT POINT OFFSET E [m] FROM SPAN CENTRE					
STAGE	0.00	1.00	2.00	3.00	4.00		
1 AND 2	100.0	100.0	100.0	100.0	100.0		
3	100.0	100.0	91.4	79.8	72.4		

SPAN 9.00m						
SAFE WORKING LOAD (SWL)						
PER LIFT POINT [TONNES]						
SINGLE LIFT POINT LOADED						
	LIFT POINT OFFSET E [m] FROM SPAN CENTRE					
STAGE	0.00	1.00	2.00	3.00	4.00	
1 AND 2	100.0	100.0	100.0	100.0	100.0	
3	100.0	100.0	88.6	78.3	68.9	

SPAN 8.00m					
	SAFE WC	RKING LO	AD (SWL)		
	PER LIF	T POINT [T	ONNES]		
	SINGLE L	IFT POINT	LOADED		
	LIFT POINT OFFSET E [m] FROM SPAN				
	CENTRE				
STAGE	0.00	1.00	2.00	3.00	
1 AND 2	100.0	100.0	100.0	100.0	
3	100.0	100.0	85.3	74.5	

SPAN 7.00m						
	SAFE WO	RKING LO	AD (SWL)			
	PER LIF	T POINT [T	ONNES]			
	SINGLE L	IFT POINT	LOADED			
	LIFT POINT OFFSET E [m] FROM SPAN					
		CENTRE				
STAGE	0.00	1.00	2.00	3.00		
1 AND 2	100.0	100.0	100.0	100.0		
3	100.0	99.8	83.1	70.1		

SPAN 6.00m			
SAFE WORKING LOAD (SWL)			
PER LIFT POINT [TONNES]			
SINGLE LIFT POINT LOADED			
	LIFT POINT OFFSET E [m]		
	FROM SPAN CENTRE		
STAGE	0.00	1.00	2.00
1 AND 2	100.0	100.0	100.0
3	100.0	96.2	78.2

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE SEE ALSO OPERATION AND MAINTENANCE MANUAL

SCALE

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NOTES

DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG400 COMPONENTS
   WITH DL-TLG400 HEAD BEAM
- 1 No. LIFT POINT LOADED PER HEAD BEAM
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG400 STANDARD TRACK SECTIONS USED WITH 1.0m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.7m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

IF THE DL-TLG400 TELESCOPIC LIFTING
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Project
DL-TLG400
TELESCOPIC LIFTING GANTRY

LIFTING ARRANGEMENT AND DUTY CHARTS
SINGLE POINT LOADED PER HEAD BEAM

Original Drawing size: A3

DL-TLG400-005-02