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NOTES

SPECIFICATION FOR DL-TLG600, 4-POINT LIFT SYSTEM

• MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDERS
STAGE 1 = 600 TONNES @ 100 BAR WORKING PRESSURE
STAGE 2 = 600 TONNES @ 140 BAR WORKING PRESSURE
STAGE 3 = 400 TONNES @ 140 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG600-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS

• STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
• DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE AND FOR ALL FUNCTIONS)

• MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS)

• 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%

• MAXIMUM WHEEL LOAD = 41 TONNES

• LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR ALL TELESCOPIC CYLINDER STAGES

• LONGITUDINAL MOVEMENT SPEED OF DL-TLG600 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)

• TRANSVERSE MOVEMENT SPEED OF DL-TLG600 POWERED TROLLEYS = 0.5 m/minute

• POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
• MAXIMUM POWER CONSUMPTION = 15 kW RUNNING PER DL-TLG600 LIFTING UNIT

• CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG600 LIFTING UNIT

• OPERATING TEMPERATURE = -20 TO +45 °C SUBJECT TO HYDRAULIC OIL GRADE USED

• ALL COMPONENTS OF DL-TLG600 SYSTEM SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

MAIN FEATURES

- 600 TONNES LIFTING CAPACITY ON FOUR LIFTING UNITS
- 150 TONNES LIFTING CAPACITY PER LIFTING UNIT
- HIGH HORIZONTAL LOAD CAPACITY
- ADJUSTABLE TRACK WIDTH FOR INCREASED STABILITY
- TRACKS CAN BE AT DIFFERENT LEVELS
- CENTRAL WIRELESS CONTROL OF ALL FUNCTIONS
- ACCURATE ADJUSTMENT OF THE LOAD POSITION TO +/-1mm IN ALL DIRECTIONS
- ALL COMPONENTS SUBJECT TO STATIC TEST AT 125% OF SWL AND DYNAMIC TESTS OF ALL FUNCTIONS AT 110% OF SWL IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS AND COMPLETE DL-TLG600 SYSTEM CE MARKED IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

2 No. DL-TLG600 POWERED TROLLEYS PER HEAD BEAM WITH CHAIN DRIVE FOR SECURE LATERAL MOVEMENT. SAFE WORKING LOAD 150 TONNES PER UNIT SEE DRG DL-TLG600-003-01

DL-TLG600 HEAD BEAM TO SUIT TRACK CENTRES UP TO 11.3m SEE DRGS DL-TLG600-003-01 & 02

CENTRAL CONTROL UNIT (BY DLT) COMPRISING POWER DISTRIBUTION CABINET AND PLC CABINET

POWER IN (BY OTHERS) 60 kW MAX RUNNING

DL-TLG600 STANDARD TRACK SECTIONS AVAILABLE IN 2.8m AND 5.6m LENGTHS SEE DRG DL-TLG600-004.

WIRELESS CONTROL CONSOLE LINKED TO CENTRAL CONTROL UNIT

4 No DL-TLG600 LIFTING UNITS EACH WITH 3 STAGE TELESCOPIC CYLINDER SAFE WORKING LOAD. 150 TONNES, 150 TONNES AND 100 TONNES PER UNIT FOR TELESCOPIC CYLINDERS STAGES 1, 2 AND 3 SEE DRG DL-TLG600-002.

TRANSVERSE
LONGITUDINAL

NOTE:
HEAD BEAMS WITH POWERED TROLLEYS SHOWN.
HEAD BEAMS WITH STATIC HANGERS AVAILABLE.
SEE DRG DL-TLG600-003-02

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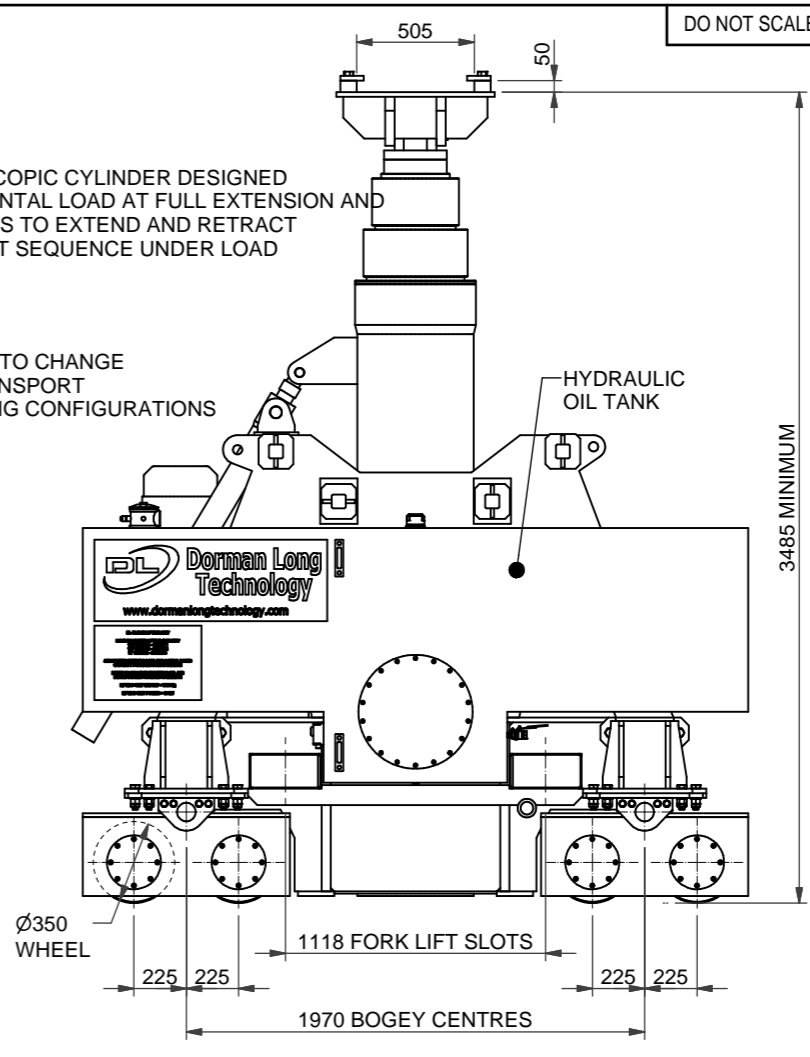
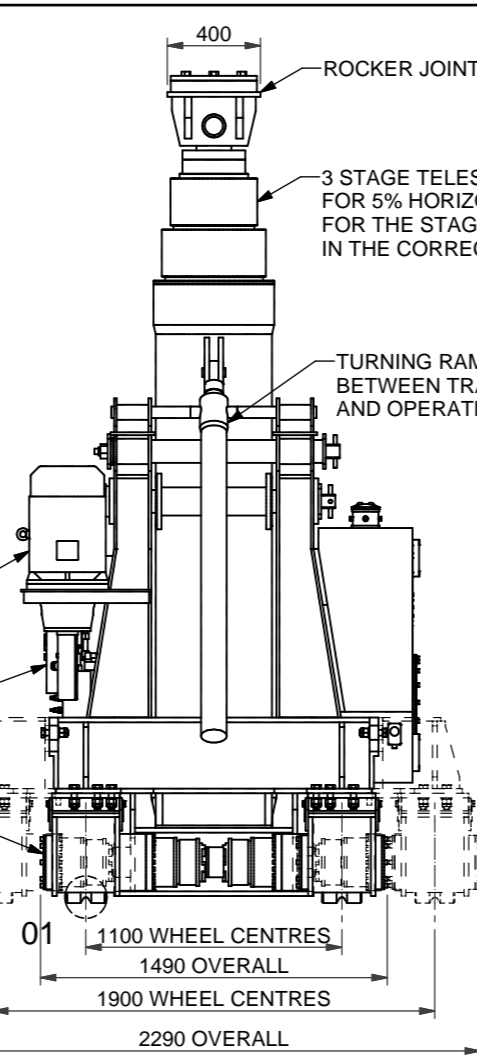
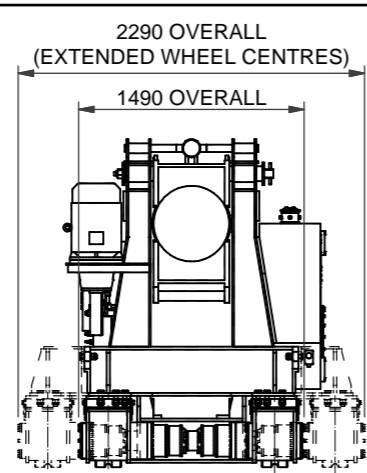
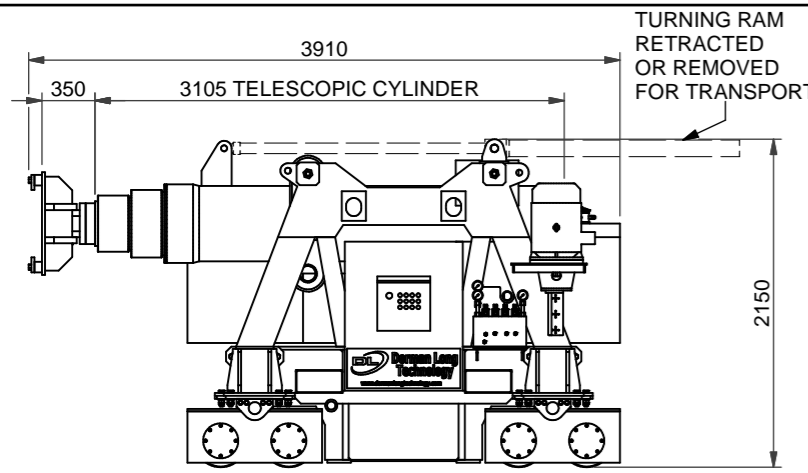
Project
DL-TLG600
TELESCOPIC LIFTING GANTRY

Drawing Title
4 POINT TELESCOPIC LIFTING GANTRY
GENERAL ARRANGEMENT AND SPECIFICATION

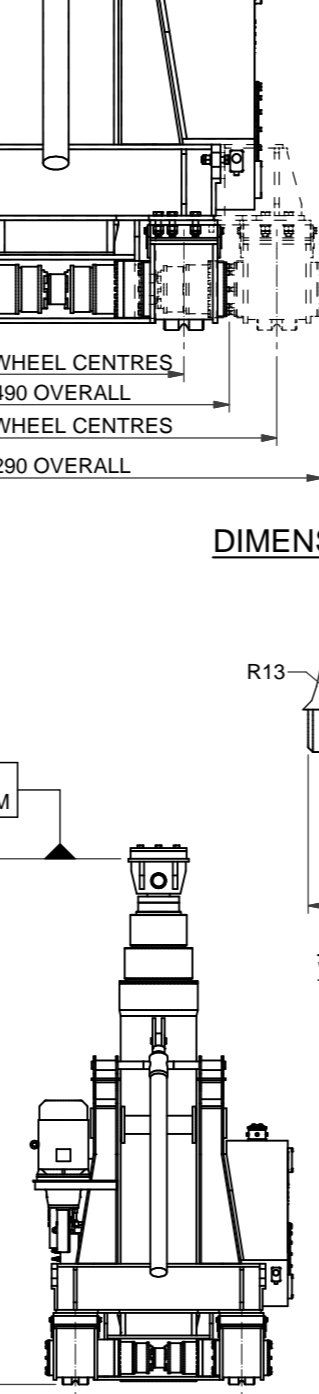
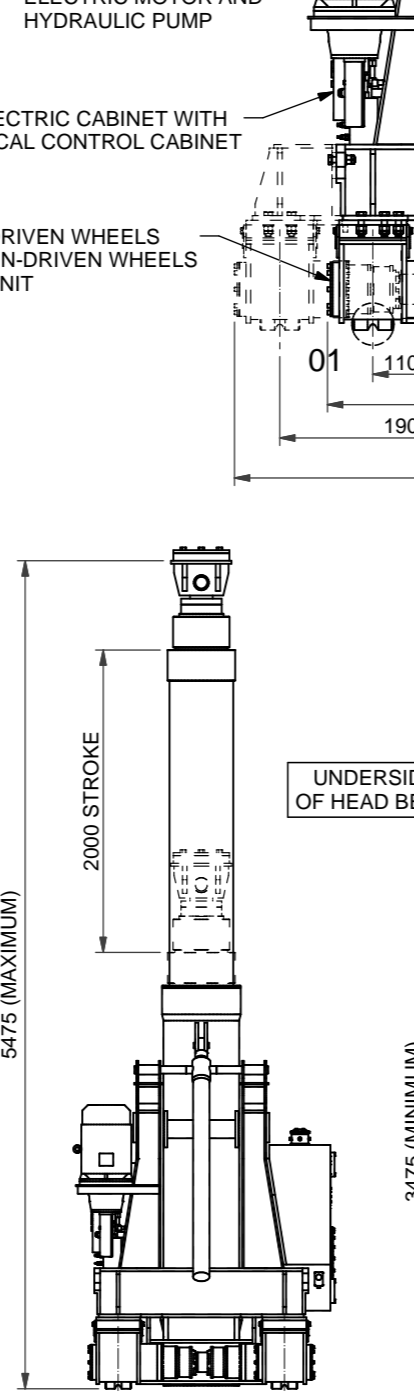
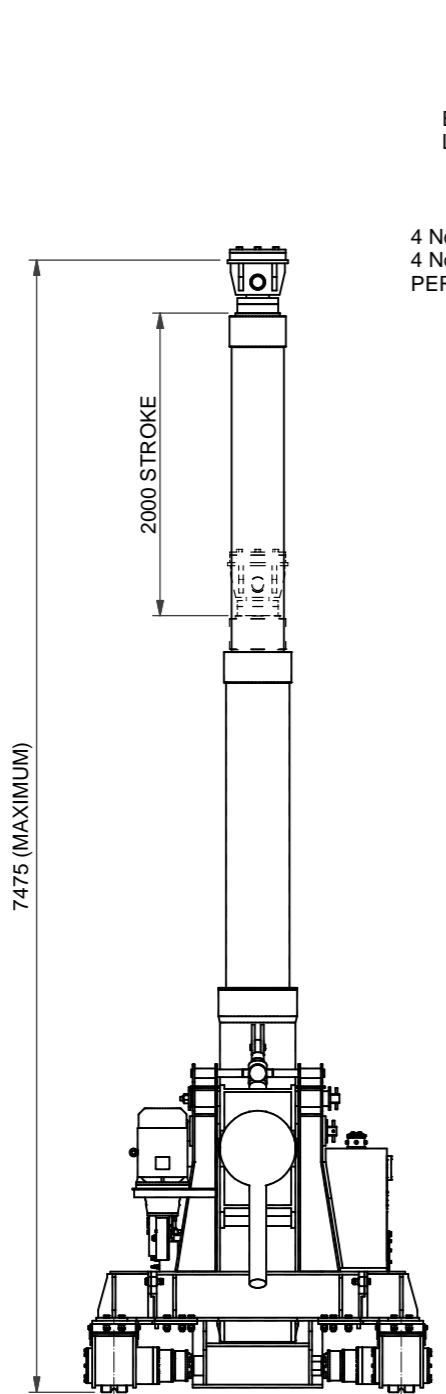
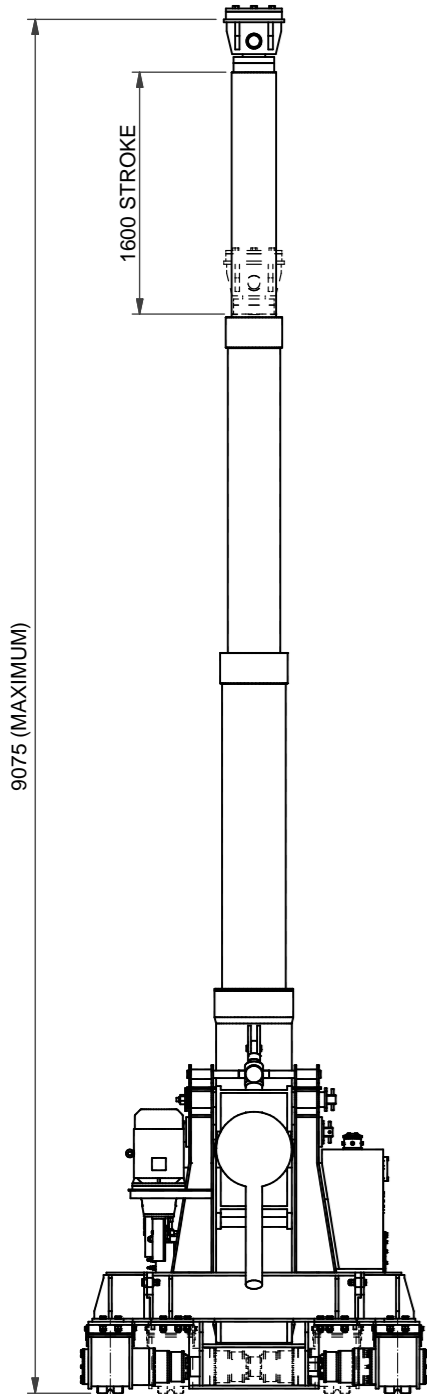
Design Eng: JM	Checking Eng: PD
Drawn by: AW	Project Eng: SAB

Scales (At A3) AS SHOWN	Drawing Status INFORMATION
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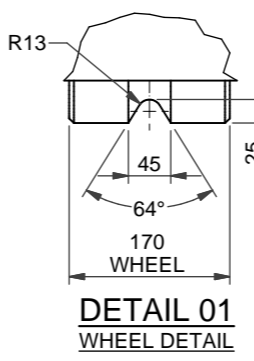
Original Drawing size: A3	Drawing No. DL-TLG600-001	Rev. N1
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DIMENSIONS FOR TRANSPORT

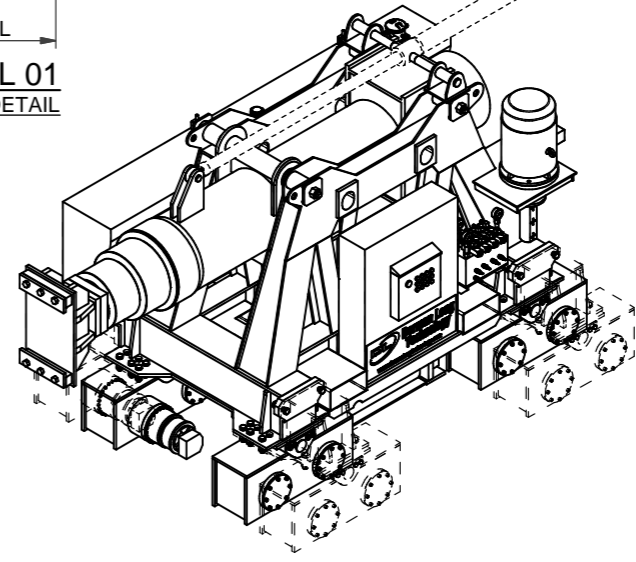


DIMENSIONS FOR OPERATION



UNDERSIDE OF HEAD BEAM

TURNING RAM RETRACTED OR REMOVED FOR TRANSPORT



UNIT FOLDED FOR TRANSPORT

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NOTES

- SPECIFICATION FOR DL-TLG600 TELESCOPIC LIFTING UNIT**
- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER
STAGE 1 = 150 TONNES @ 100 BAR WORKING PRESSURE
STAGE 2 = 150 TONNES @ 140 BAR WORKING PRESSURE
STAGE 3 = 100 TONNES @ 140 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG600-005-01 AND 02 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS
 - TELESCOPIC CYLINDER WORKING PRESSURE ON RETRACT = 70 BAR
 - STATIC TEST LOAD = 1.25 x SWL + MAXIMUM HORIZONTAL LOAD (TESTS CARRIED OUT AT FULL EXTENSION FOR EACH TELESCOPIC CYLINDER STAGE)
 - DYNAMIC TEST LOAD = 1.10 x SWL (TESTS CARRIED OUT FOR EACH TELESCOPIC CYLINDER STAGE AND FOR ALL FUNCTIONS)
 - MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION. (SEE OPERATION AND MAINTENANCE MANUAL FOR DETAILS)
 - MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
 - THE MAXIMUM % TIPPING FIGURES GIVEN FOR STAGES 1, 2 AND 3 ASSUME 5% HORIZONTAL LOAD AT THE ROCKER JOINT PLUS 1% TRANSVERSE SLOPE OF THE TRACK
 - MAXIMUM WHEEL LOAD = 41 TONNES
 - LIFTING AND LOWERING SPEED OF TELESCOPIC CYLINDER = 0.5 m/minute (FAST) AND 0.1 m/minute (SLOW) - CONSTANT FOR ALL TELESCOPIC CYLINDER STAGES
 - LONGITUDINAL MOVEMENT SPEED OF DL-TLG600 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)
 - POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
 - MAXIMUM POWER CONSUMPTION = 15 kW RUNNING PER DL-TLG600 LIFTING UNIT
 - CONTROL FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG600 LIFTING UNIT
 - OPERATING TEMPERATURE = -20 TO +45 °C SUBJECT TO HYDRAULIC OIL GRADE USED
 - TELESCOPIC CYLINDER FOLDS AS SHOWN SO THAT COMPLETE DL-TLG600 LIFTING UNIT (WITH BOGIE EXTENSION PIECES) IS SUITABLE FOR TRANSPORT IN A STANDARD SHIPPING CONTAINER
 - WEIGHTS
BASE UNIT - STEEL FRAME AND PINS = 3,260 kg
BASE UNIT - DRIVEN BOGIES (4 x 620 kg) = 2,480 kg
BASE UNIT - OTHER EQUIPMENT = 860 kg
TELESCOPIC CYLINDER = 3,780 kg
ROCKER JOINT ASSEMBLY = 250 kg
HYDRAULIC OIL = 870 kg
TOTAL = 11,500 kg
 - HYDRAULIC OIL TANK SIZE = 2x480 litres

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Project
DL-TLG600 TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG600 TELESCOPIC LIFTING UNIT GENERAL ARRANGEMENT AND SPECIFICATION

	Design Eng: PD	Checking Eng: PD
	Drawn by: AW	Project Eng: SAB
Scales (At A3) AS SHOWN	INFORMATION	
Original Drawing size: A3		

Drawing No. **DL-TLG600-002** Rev. **N1**

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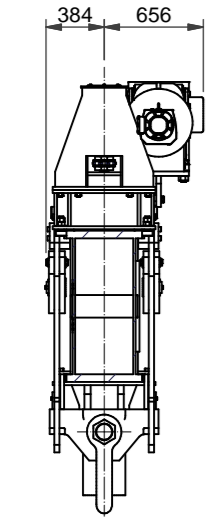
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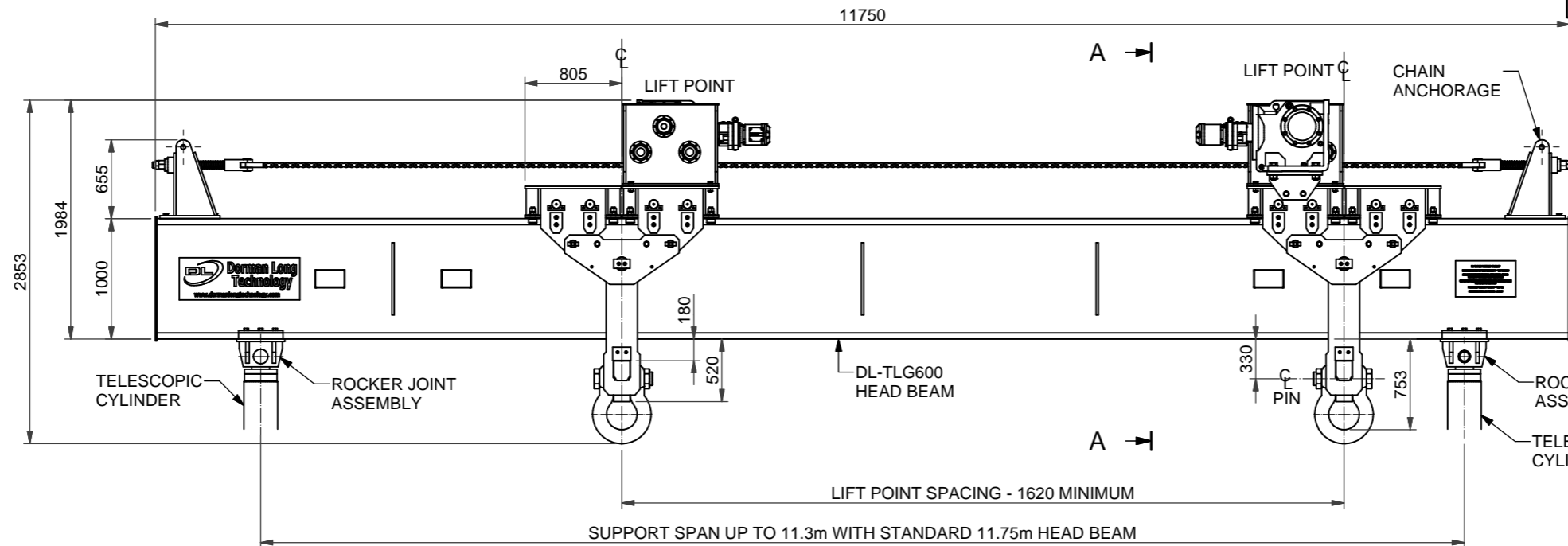
NOTES

SPECIFICATION
DL-TLG600 HEAD BEAM AND
DL-TLG600 POWERED TROLLEY

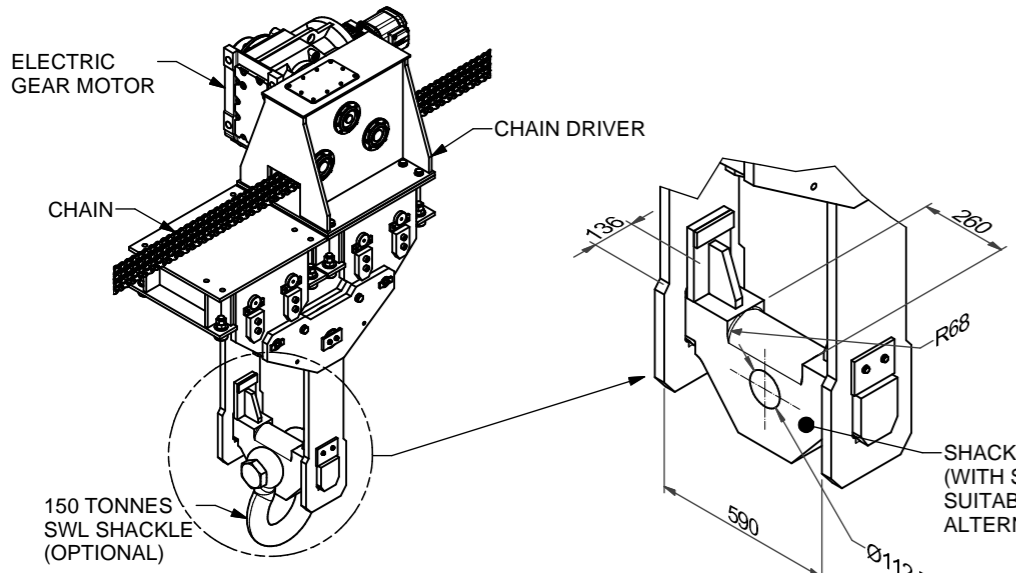
- MAXIMUM SAFE WORKING LOAD (SWL) = 150 TONNES PER LIFT POINT = 284 TONNES PER HEAD BEAM
SEE DRAWING DL-TLG600-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%
- TRANSVERSE MOVEMENT SPEED OF DL-TLG600 POWERED TROLLEYS = 0.5 m/minute
- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
- MAXIMUM POWER CONSUMPTION = 1.1 kW RUNNING PER DL-TLG600 POWERED TROLLEY
- CONTROL SYSTEM FOR ALL FUNCTIONS = CENTRAL WIRELESS CONTROL CONSOLE OR CONTROL PANEL AT THE CENTRAL CONTROL UNIT OR LOCAL CONTROL PANEL AT EACH DL-TLG600 LIFTING UNIT
- OPERATING TEMPERATURE = -20°C TO +45°C
- WEIGHTS
DL-TLG600 HEAD BEAM = 7300 Kg
POWERED TROLLEY = 2x3615 Kg
CHAIN AND CHAIN ANCHORAGES = 645 Kg
- TOTAL OPERATING WEIGHT = 15175 Kg
- DL-TLG600 HEAD BEAM AND POWERED TROLLEYS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINER AS SHOWN
- TRANSPORT WEIGHT:-
HEAD BEAM AND UPPER SECTION OF POWERED TROLLEYS = 14500 Kg
- SHACKLE BEAM HANGERS (INCLUDING TRANSPORT FRAMES) = 1050 Kg
- ASSEMBLY SUPPORT STOOLS = 2 x 200 Kg



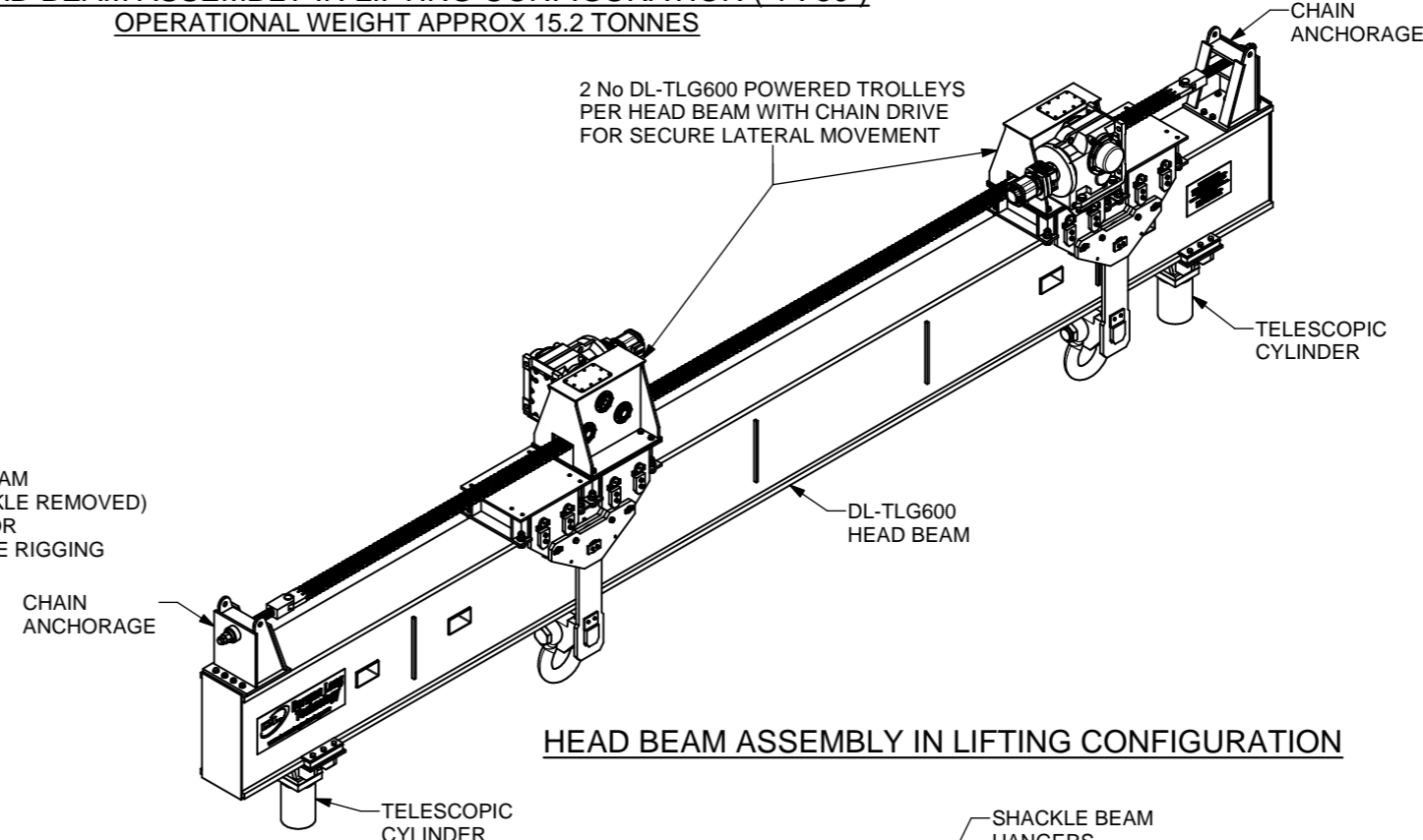
A-A (1 : 50)



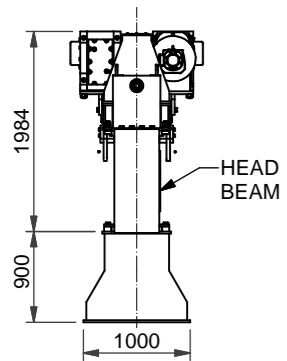
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
OPERATIONAL WEIGHT APPROX 15.2 TONNES



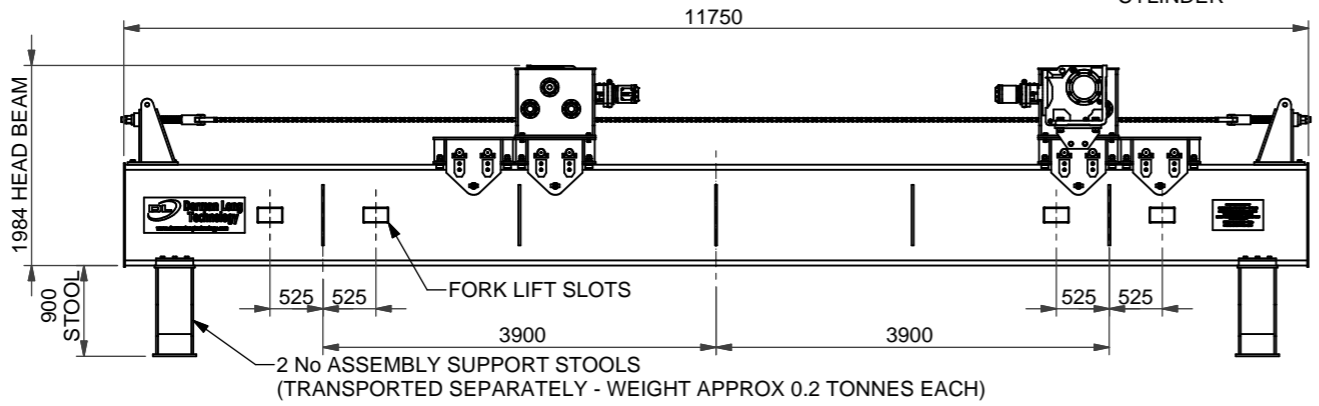
POWERED TROLLEY
(HEAD BEAM OMITTED FOR CLARITY)



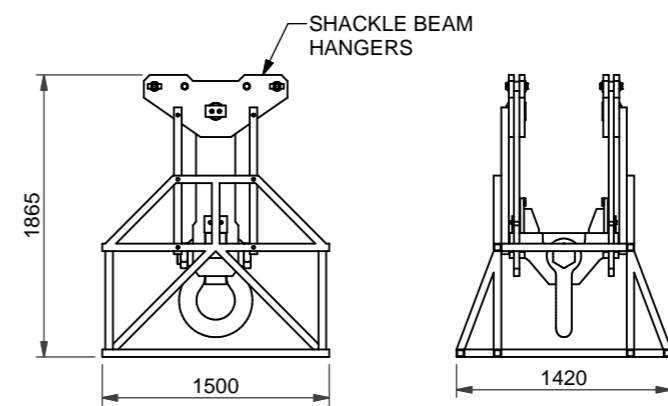
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION
(1 : 75)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 75)
TRANSPORT WEIGHT (WITHOUT ASSEMBLY STOOLS) APPROX 14.5 TONNES



SHACKLE BEAM HANGER
IN TRANSPORT CONFIGURATION
2 No THUS
TRANSPORT WEIGHT = APPROX 1.1 TONNES EACH

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Project
DL-TLG600
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG600 HEAD BEAM AND
DL-TLG600 POWERED TROLLEY
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng:	JM	Checking Eng:	PD
Drawn by:	AW	Project Eng:	SAB

Information
Scales (At A3) AS SHOWN
Original Drawing size: A3
Drawing Status

Drawing No.	Rev.
DL-TLG600-003-01	N1

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NOTES

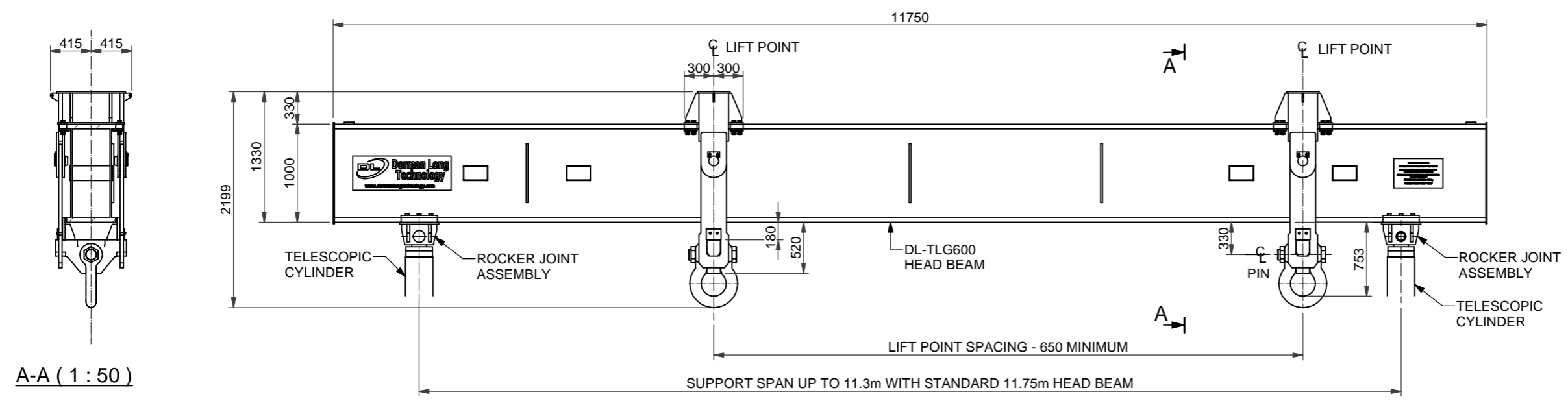
SPECIFICATION
DL-TLG600 HEAD BEAM AND
DL-TLG600 STATIC HANGERS

- MAXIMUM SAFE WORKING LOAD (SWL) = 150 TONNES PER LIFT POINT = 290 TONNES PER HEAD BEAM
SEE DRAWING DL-TLG600-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS
- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%
- OPERATING TEMPERATURE = -20°C TO +45°C

- DL-TLG600 HEAD BEAM SUPPORTED ON 2 No. SUPPORT STOOL ASSEMBLIES AND COMPLETE WITH ALL EQUIPMENT IS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINER AS SHOWN.

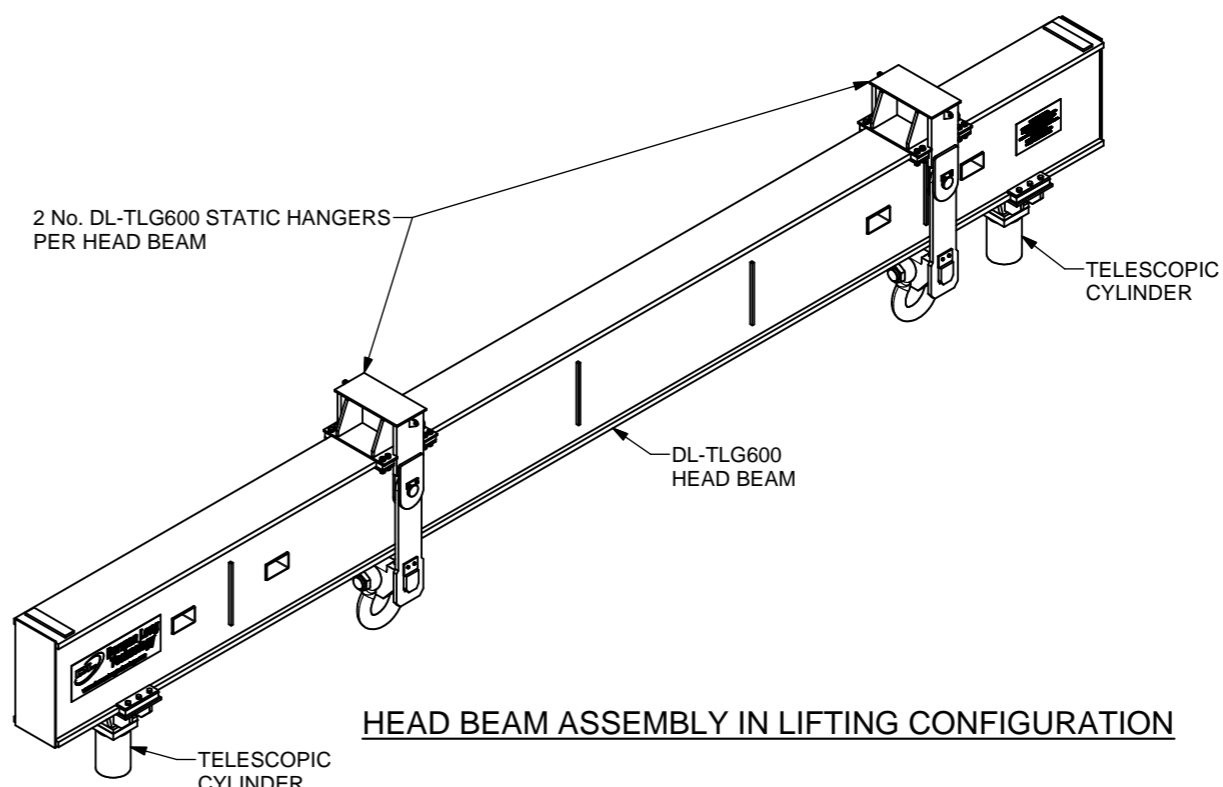
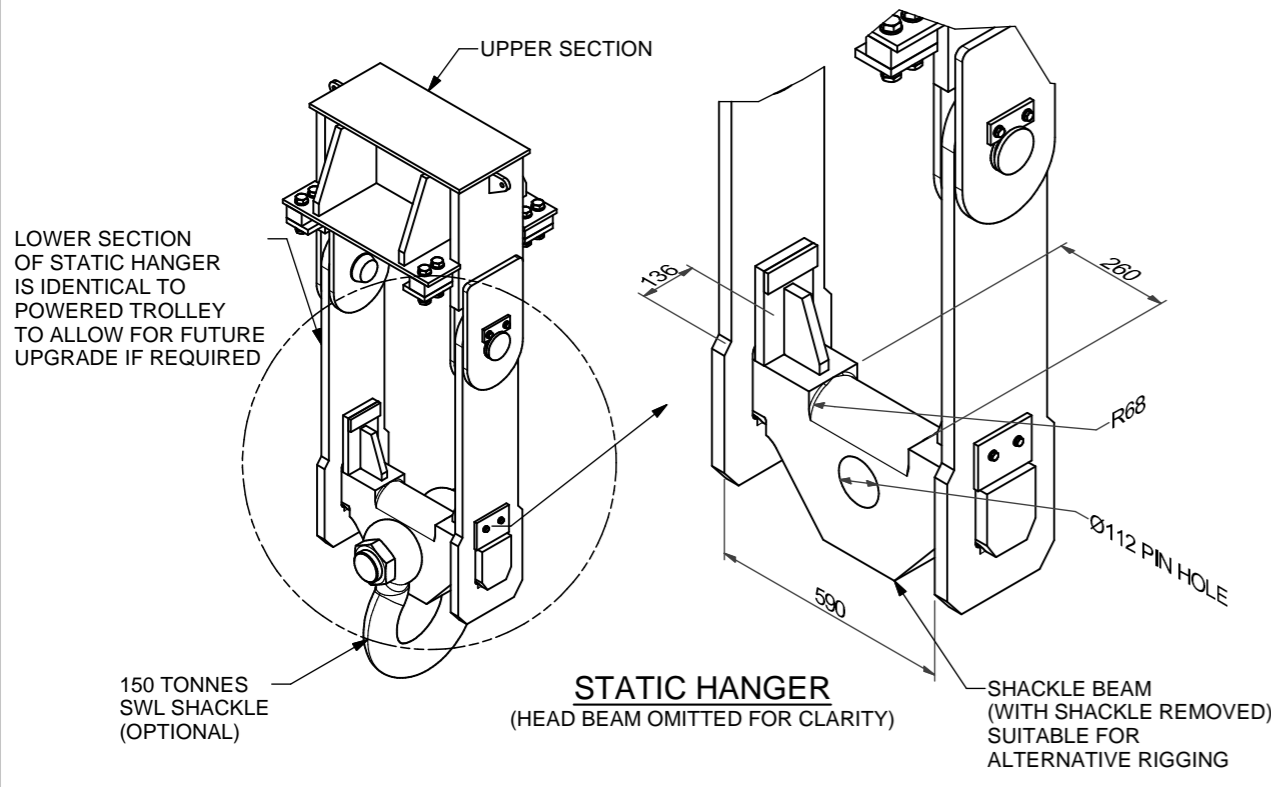
- WEIGHTS
DL-TLG600 HEAD BEAM = 7300 kg
STATIC HANGER ASSEMBLY = 2x900 kg
SUPPORT STOOLS = 2x200 kg

- TOTAL OPERATING WEIGHT = 9100 kg
TOTAL TRANSPORT WEIGHT = 9500 kg

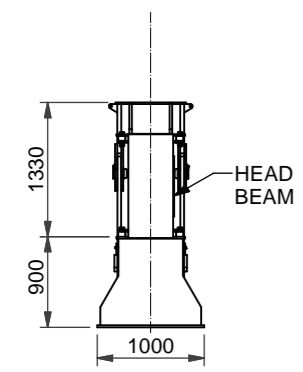


A-A (1 : 50)

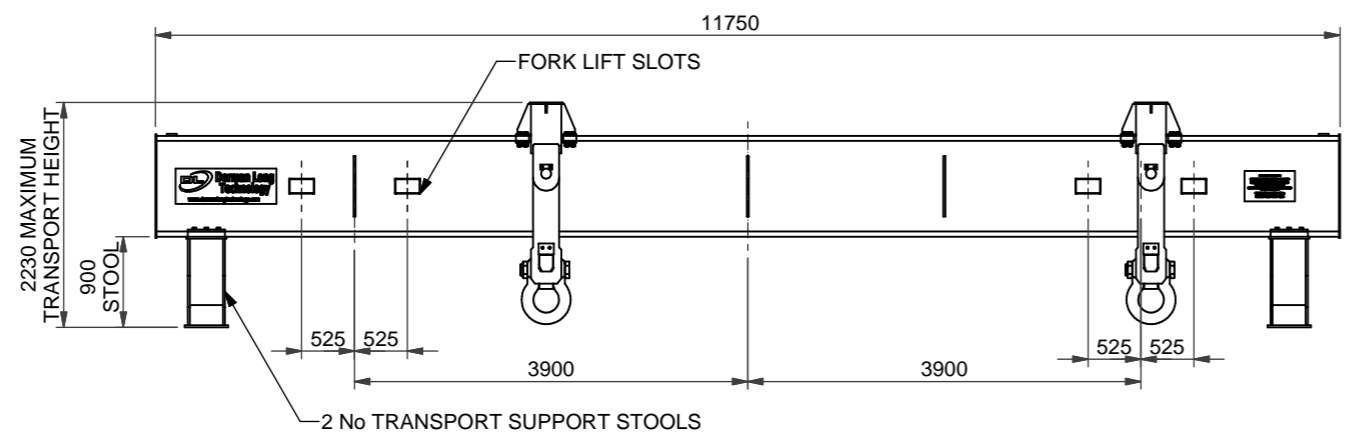
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
OPERATIONAL WEIGHT APPROX 9.1 TONNES



HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION
(1 : 75)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 75)
TRANSPORT WEIGHT APPROX 9.50 TONNES

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Project
DL-TLG600
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG600 HEAD BEAM AND
DL-TLG600 STATIC HANGERS
GENERAL ARRANGEMENT AND SPECIFICATION

Design Eng: JM	Checking Eng: PD
Drawn by: AW	Project Eng: SAB

Original Drawing size: A3
Drawing Status
INFORMATION

Drawing No.
DL-TLG600-003-02

Rev.
N1

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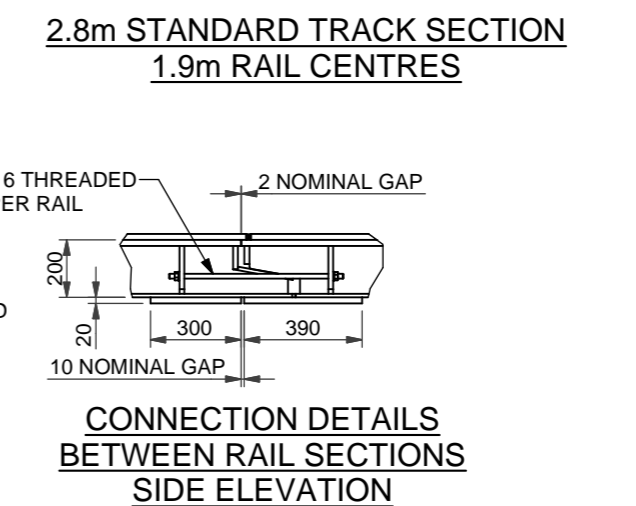
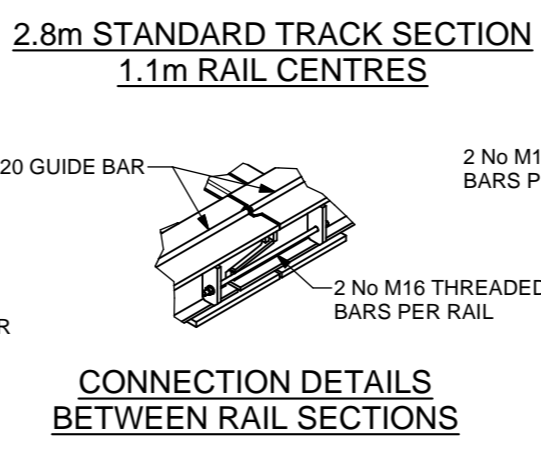
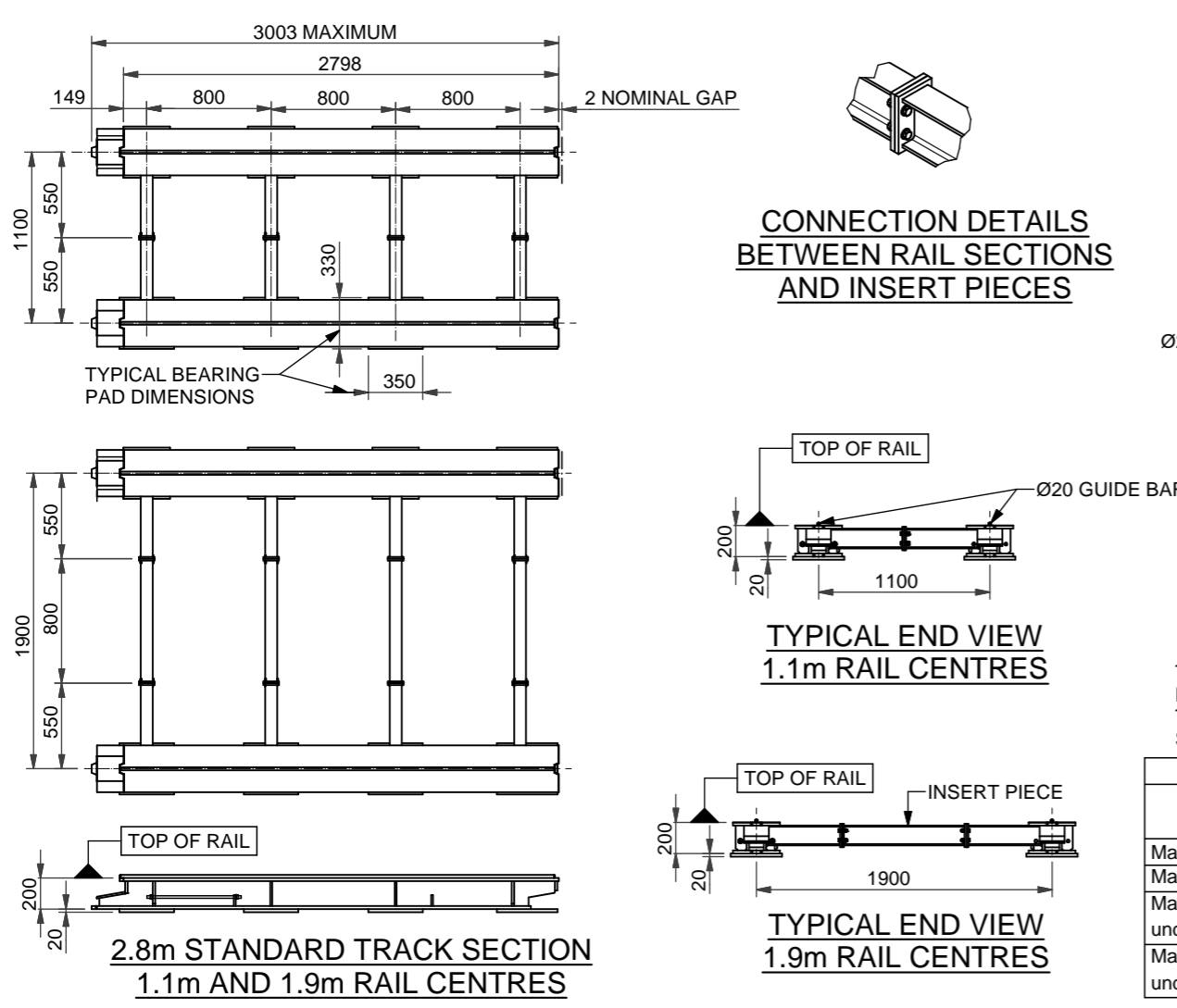
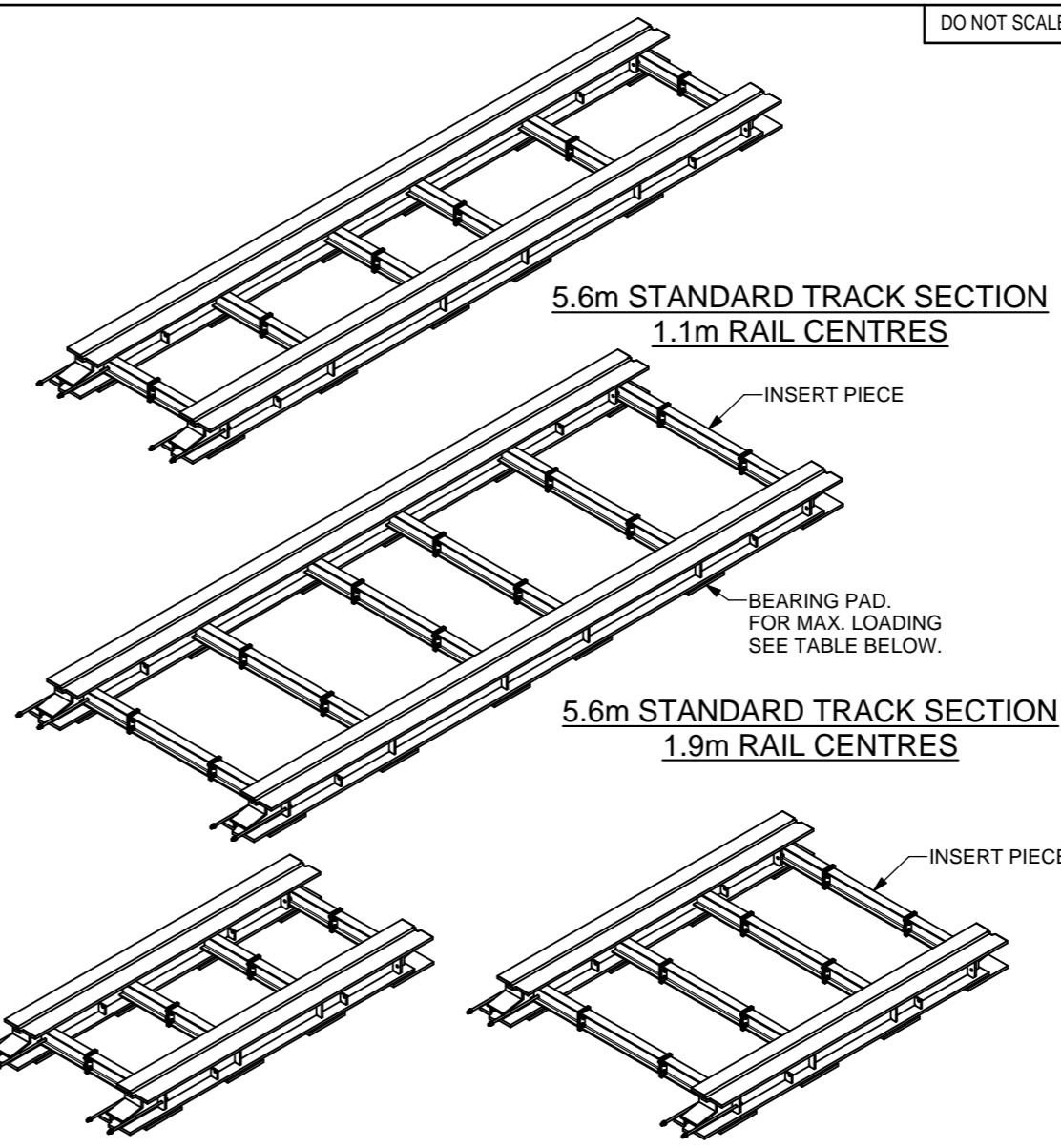
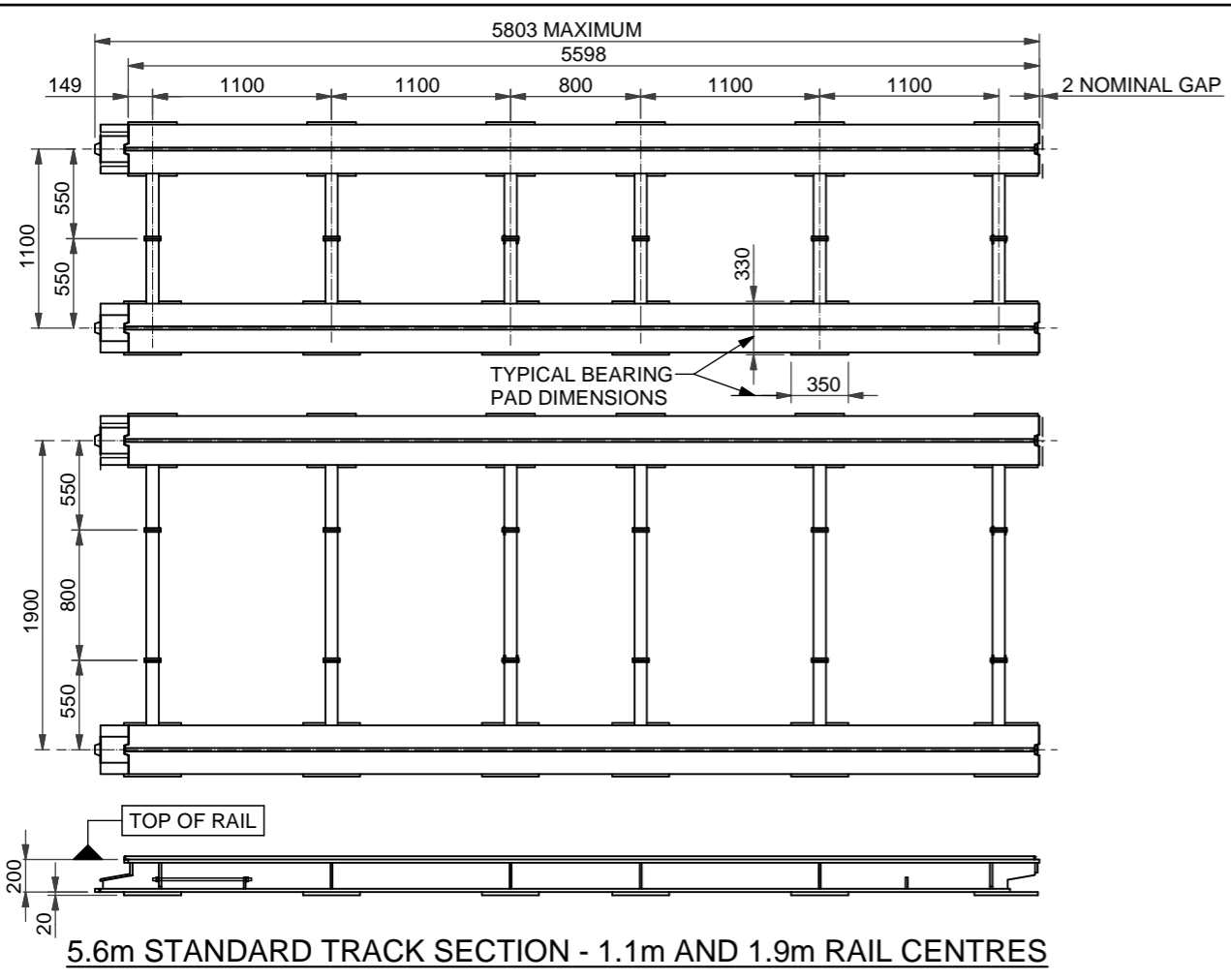
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NOTES

SPECIFICATION FOR DL-TLG600 STANDARD TRACK SECTIONS

- STANDARD TRACK SECTIONS SUPPLIED IN LENGTHS GIVING EFFECTIVE TRACK LENGTHS OF 5.6m AND 2.8m (OVERALL LENGTHS OF 5,803mm AND 3,003mm)
- STANDARD TRACK SECTIONS SUPPLIED WITH RAILS AT 1.1m CENTRES AND WITH INSERT PIECES TO INCREASE RAILS TO 1.9m CENTRES
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- SEE TABLE FOR MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES
- OPERATING TEMPERATURE = -20 TO +45°C
- FULLY ASSEMBLED STANDARD TRACK SECTIONS ARE SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS
- WEIGHTS
 5.6m LONG x 1.1m RAIL CENTRES = 1,870 kg
 5.6m LONG x 1.9m RAIL CENTRES = 1,950 kg
 2.8m LONG x 1.1m RAIL CENTRES = 1,000 kg
 2.8m LONG x 1.9m RAIL CENTRES = 1,055 kg



THE MAXIMUM WHEEL LOADS AND BEARING PAD LOADS AND PRESSURES TABULATED BELOW ASSUME 5% HORIZONTAL LOAD PLUS 1% SLOPE OF THE TRACK, BOTH AT 45 DEGREES ORIENTATION. THE PROJECT SPECIFIC VALUES WILL DEPEND ON THE ACTUAL LOADS TO BE APPLIED TO THE SYSTEM. SEE OPERATION AND MAINTENANCE MANUAL FOR FURTHER INFORMATION.

DL-TLG600 Standard Track - Maximum Loads			
	Telescopic Cylinder Stage 1 1.1m Rail Centres	Telescopic Cylinder Stage 2 1.9m Rail Centres	Telescopic Cylinder Stage 3 1.9m Rail Centres
Maximum Wheel Load on Track	40.8 Tonnes	41.0 Tonnes	31.4 Tonnes
Maximum Load on each Bearing Pad	71.9 Tonnes	74.8 Tonnes	57.1 Tonnes
Maximum Average Bearing Pressure under each Bearing Pad	6.1 MPa	6.4 MPa	4.9 MPa
Maximum Peak Bearing Pressure under each Bearing Pad	7.6 MPa	8.9 MPa	8.3 MPa

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Project
 DL-TLG400
 TELESCOPIC LIFTING GANTRY

Drawing Title
 DL-TLG600 STANDARD TRACK SECTIONS
 GENERAL ARRANGEMENT AND SPECIFICATION

 Scales (At A3) AS SHOWN	Design Eng: PD Drawing Status: AW	Checking Eng: JM Project Eng: SAB
	INFORMATION	
Original Drawing size: A3 Drawing No. DL-TLG600-004	Rev. N1	

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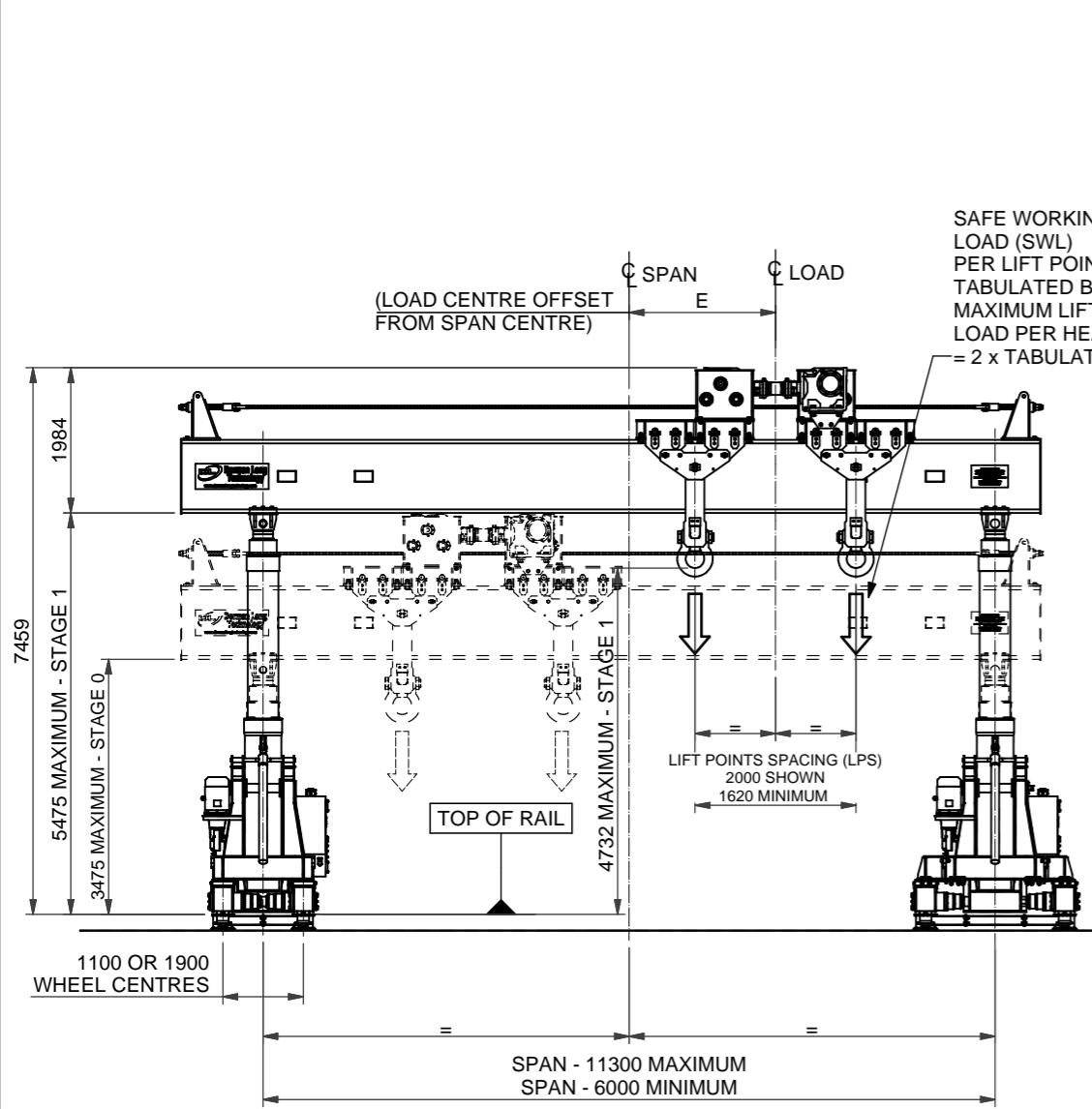
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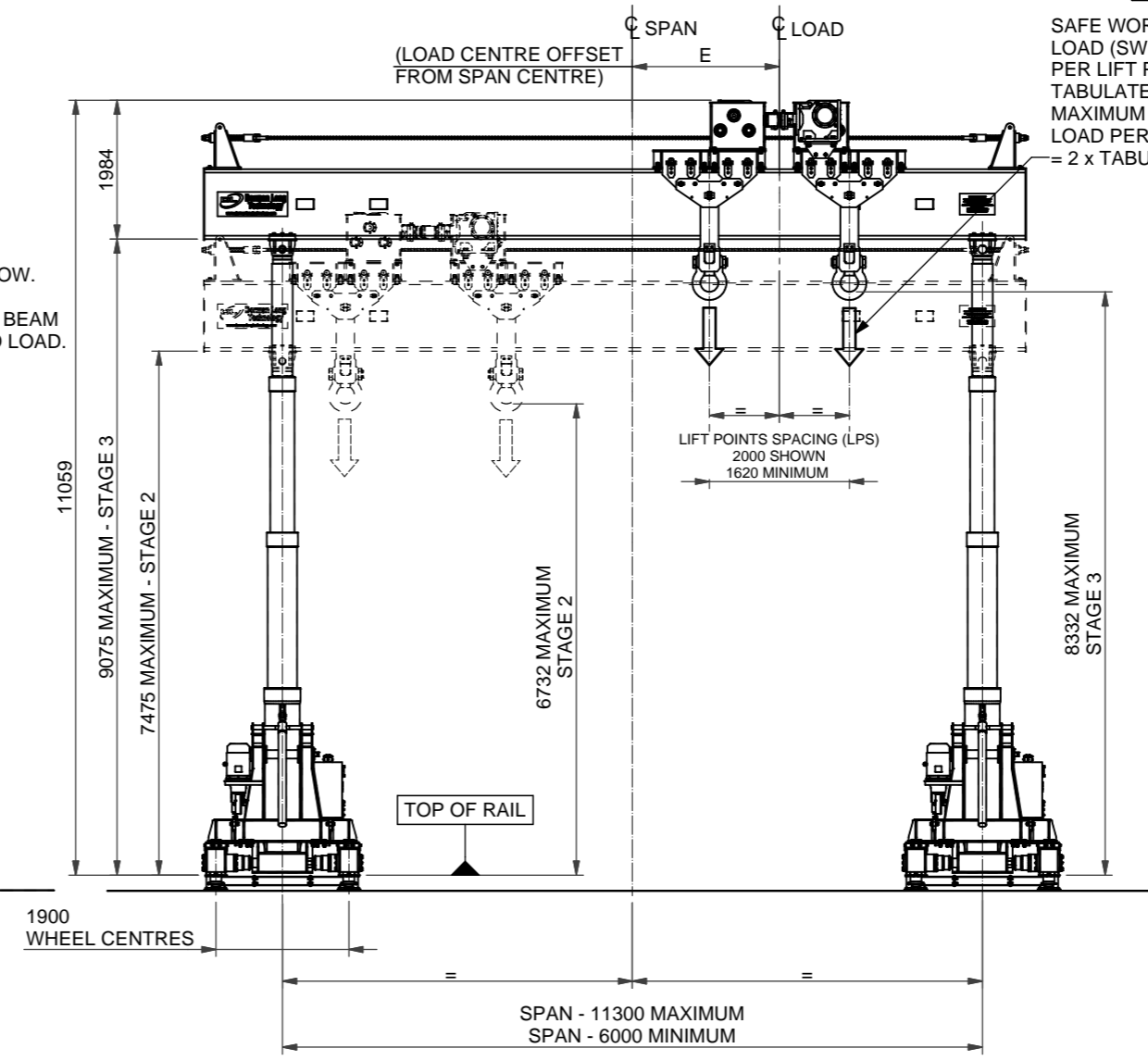
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NOTES

- DUTY CHARTS ASSUME THE FOLLOWING:-
- STANDARD DL-TLG600 COMPONENTS WITH DL-TLG600 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 TOLERANCE SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
 - MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
 - DL-TLG600 STANDARD TRACK SECTIONS USED WITH 1.1m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.9m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 2 AND 3
 - TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM
- IF THE DL-TLG600 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THE 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 3475 TO LEVEL 5475



STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7475
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9075

SPAN 11.30m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1 AND 2	1.62	90.3	90.9	99.6	91.8
3		90.3	78.0	67.3	59.1
1 AND 2	2.00	94.3	94.3	102.7	91.8
3		92.4	78.0	67.3	59.1
1 AND 2	3.00	106.5	104.2	104.2	91.8
3		92.4	78.0	67.3	59.1
1 AND 2	4.00	122.2	116.2	104.2	
3		92.4	78.0	67.3	
1 AND 2	5.00	142.4	120.4	104.2	
3		92.4	78.0	67.3	
1 AND 2	6.00	142.4	120.4		
3		92.4	78.0		
1 AND 2	7.00	142.4	120.4		
3		92.4	78.0		
1 AND 2	8.00	142.4			
3		92.4			
1 AND 2	9.00	142.4			
3		92.4			

SPAN 10.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1 AND 2	1.62	105.4	106.5	100.7	87.6
3		92.4	76.4	65.0	56.4
1 AND 2	2.00	110.8	110.8	100.7	87.6
3		92.4	76.4	65.0	56.4
1 AND 2	3.00	127.7	118.1	100.7	87.6
3		92.4	76.4	65.0	56.4
1 AND 2	4.00	142.4	118.1	100.7	
3		92.4	76.4	65.0	
1 AND 2	5.00	142.4	118.1	100.7	
3		92.4	76.4	65.0	
1 AND 2	6.00	142.4	118.1		
3		92.4	76.4		
1 AND 2	7.00	142.4	118.1		
3		92.4	76.4		
1 AND 2	8.00	142.4			
3		92.4			
1 AND 2	9.00	142.4			
3		92.4			

SPAN 9.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE			
		0.00	1.00	2.00	3.00
1 AND 2	1.62	120.8	115.9	97.5	84.0
3		92.4	74.9	62.9	54.0
1 AND 2	2.00	127.7	115.9	97.5	84.0
3		92.4	74.9	62.9	54.0
1 AND 2	3.00	142.4	115.9	97.5	
3		92.4	74.9	62.9	
1 AND 2	4.00	142.4	115.9	97.5	
3		92.4	74.9	62.9	
1 AND 2	5.00	142.4	115.9		
3		92.4	74.9		
1 AND 2	6.00	142.4	115.9		
3		92.4	74.9		
1 AND 2	7.00	142.4			
3		92.4			
1 AND 2	8.00	142.4			
3		92.4			

SPAN 8.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]				
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE		
		0.00	1.00	2.00
1 AND 2	1.62	140.9	113.2	93.7
3		92.4	73.2	60.4
1 AND 2	2.00	142.4	113.2	93.7
3		92.4	73.2	60.4
1 AND 2	3.00	142.4	113.2	93.7
3		92.4	73.2	60.4
1 AND 2	4.00	142.4	113.2	
3		92.4	73.2	
1 AND 2	5.00	142.4	113.2	
3		92.4	73.2	
1 AND 2	6.00	142.4		
3		92.4		
1 AND 2	7.00	142.4		
3		92.4		

SPAN 7.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]				
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE		
		0.00	1.00	2.00
1 AND 2	1.62	142.4	110.0	89.3
3		92.4	71.1	57.5
1 AND 2	2.00	142.4	110.0	89.3
3		92.4	71.1	57.5
1 AND 2	3.00	142.4	110.0	
3		92.4	71.1	
1 AND 2	4.00	142.4	110.0	
3		92.4	71.1	
1 AND 2	5.00	142.4		
3		92.4		
1 AND 2	6.00	142.4		
3		92.4		

SPAN 6.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]				
STAGE	LIFT POINTS SPACING LPS [m]	LOAD CENTRE OFFSET E [m] FROM SPAN CENTRE		
		0.00	1.00	1.00
1 AND 2	1.62	142.4	105.9	
3		92.4	68.4	
1 AND 2	2.00	142.4	105.9	
3		92.4	68.4	
1 AND 2	3.00	142.4	105.9	
3		92.4	68.4	
1 AND 2	4.00	142.4		
3		92.4		
1 AND 2	5.00	142.4		
3		92.4		

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Project
DL-TLG600
TELESCOPIC LIFTING GANTRY

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

	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB
Scales (At A3) AS SHOWN	Drawing Status INFORMATION	

INTERPOLATION BETWEEN TABULATED VALUES PERMISSABLE
SEE ALSO OPERATION AND MAINTENANCE MANUAL

Drawing No. DL-TLG600-005-01 Rev. N1

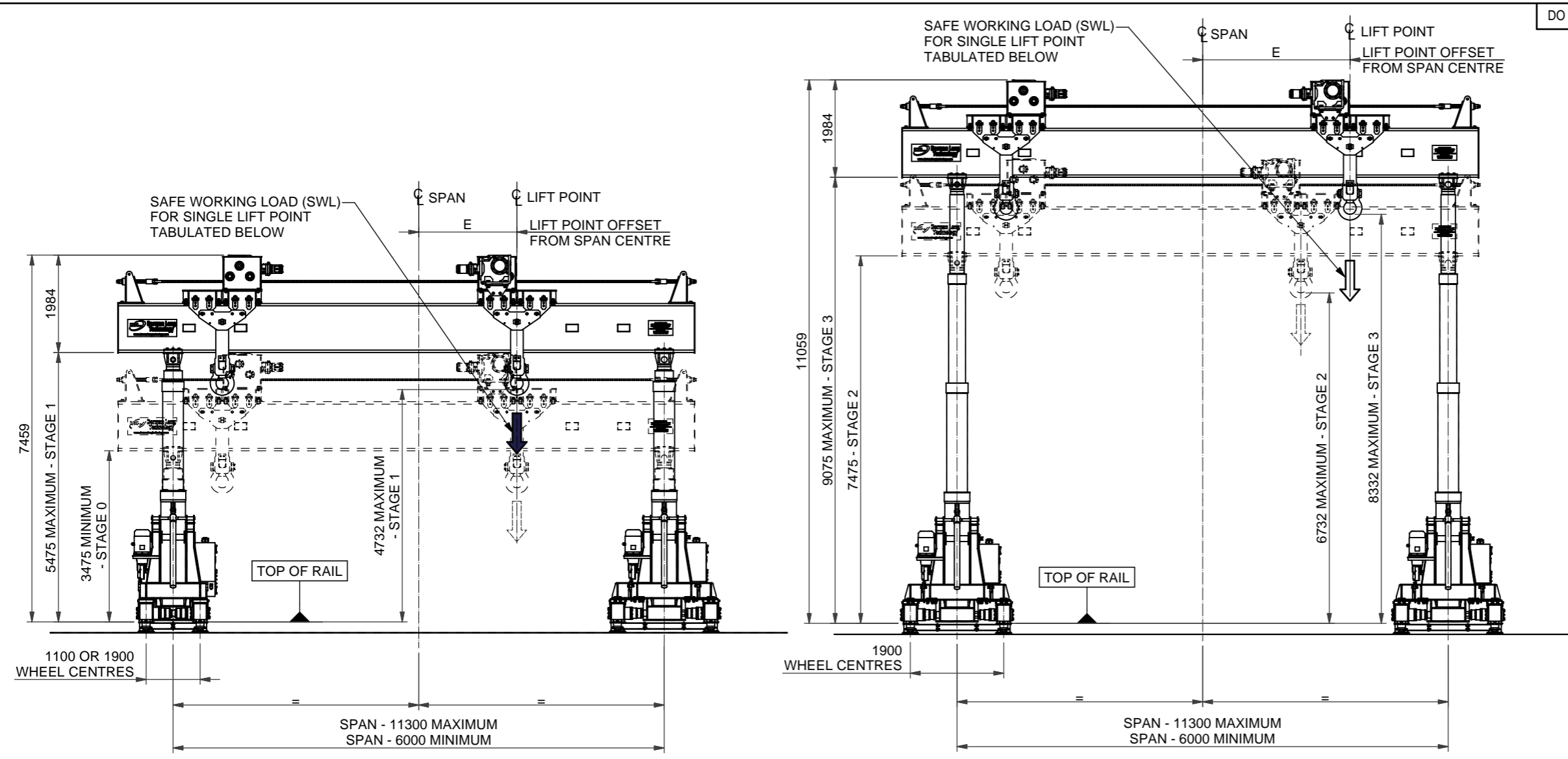
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NOTES

- DUTY CHARTS ASSUME THE FOLLOWING:-
- STANDARD DL-TLG600 COMPONENTS WITH DL-TLG600 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 TOLERANCE SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
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STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE FROM LEVEL 3475 TO LEVEL 5475

**STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 7475
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 9075**

SPAN 11.30m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	POWERED TROLLEY OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 - 2	150.0	150.0	150.0	150.0	150.0
3	150.0	150.0	133.4	117.5	108.5

SPAN 10.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	POWERED TROLLEY OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 - 2	150.0	150.0	150.0	150.0	150.0
3	150.0	150.0	128.6	112.1	102.9

SPAN 9.00m					
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	POWERED TROLLEY OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1 - 2	150.0	150.0	150.0	150.0	150.0
3	150.0	147.9	124.6	111.4	97.8

SPAN 8.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]				
SINGLE LIFT POINT LOADED				
STAGE	POWERED TROLLEY OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1 - 2	150.0	150.0	150.0	150.0
3	150.0	144.6	119.9	105.9

SPAN 7.00m				
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]				
SINGLE LIFT POINT LOADED				
STAGE	POWERED TROLLEY OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1 - 2	150.0	150.0	150.0	150.0
3	150.0	140.5	118.3	99.5

SPAN 6.00m			
SAFE WORKING LOAD (SWL) PER LIFT POINT [TONNES]			
SINGLE LIFT POINT LOADED			
STAGE	OFFSET E [m] FROM SPAN CENTRE		
	0.00	1.00	2.00
1 - 2	150.0	150.0	150.0
3	150.0	135.4	111.3

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Project
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TELESCOPIC LIFTING GANTRY

Drawing Title
LIFTING ARRANGEMENT AND DUTY CHARTS
SINGLE LIFT POINT LOADED PER HEAD BEAM

	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB

Scales (At A3) AS SHOWN

Original Drawing size: A3
Drawing No. **DL-TLG600-005-02** Rev. **N1**