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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.

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



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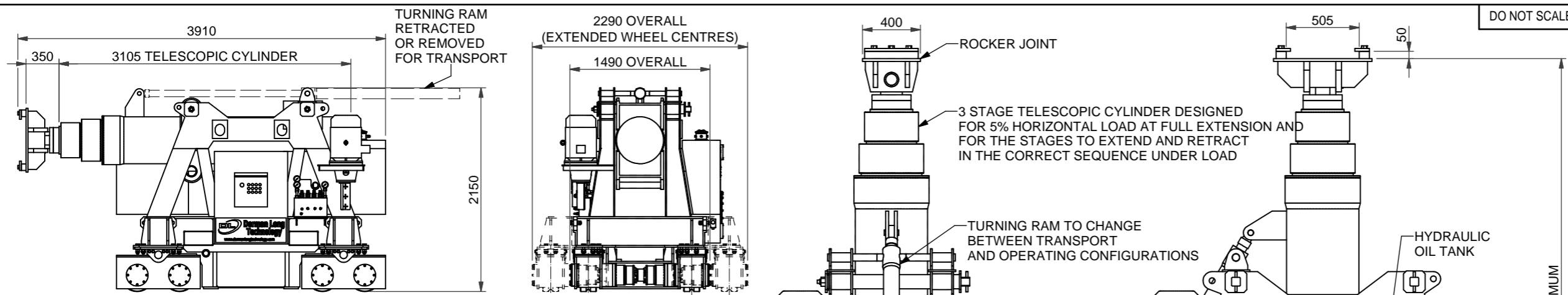
Project  
DL-TLG600  
TELESCOPIC LIFTING GANTRY

Drawing Title  
4-POINT TELESCOPIC LIFTING GANTRY  
GENERAL ARRANGEMENT AND SPECIFICATION

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

Scale (At A3) NTS  
Drawing Status  
INFORMATION

Original Drawing size: A3	Drawing No.	Rev.
	DL-TLG600-001	B



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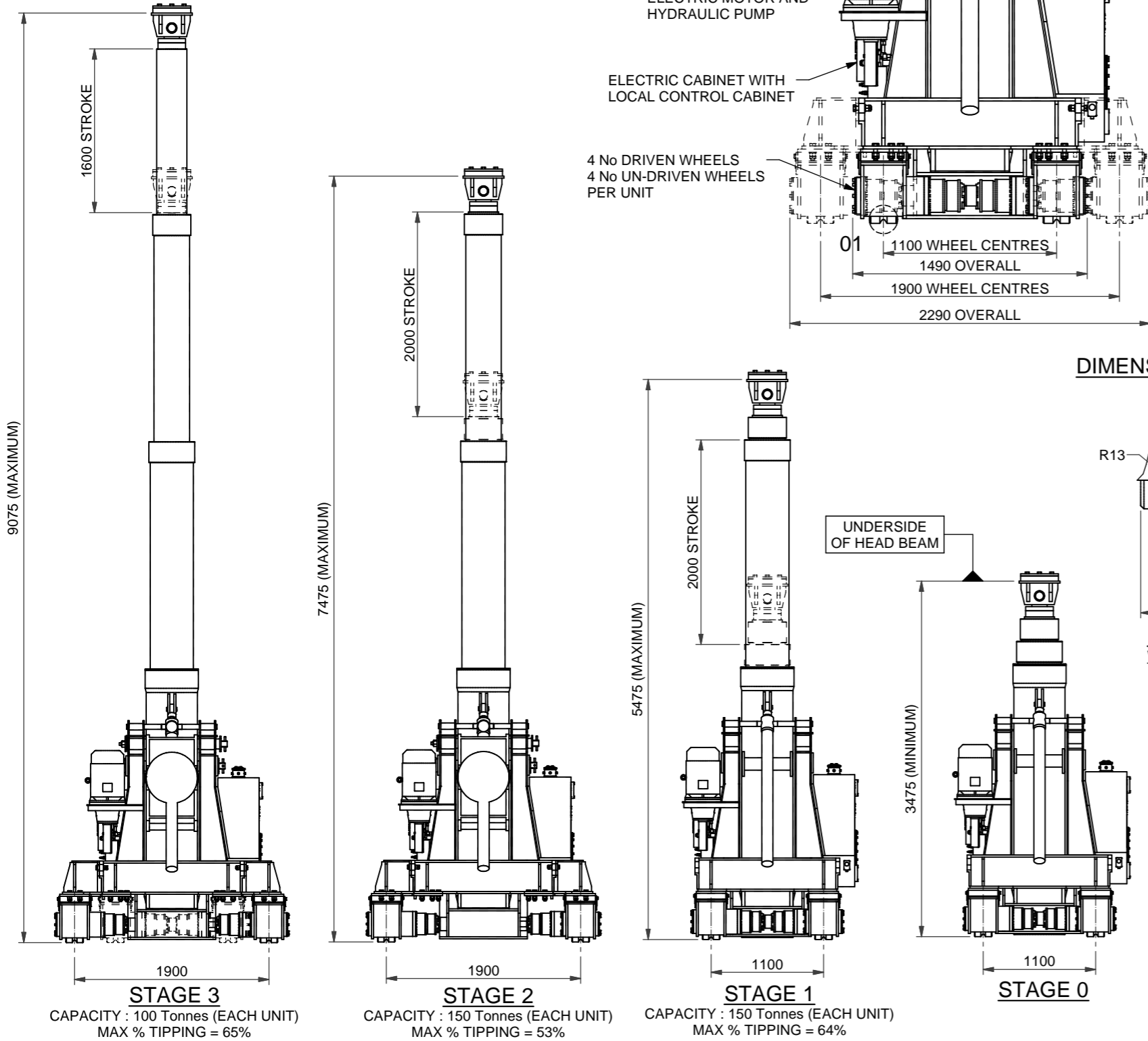
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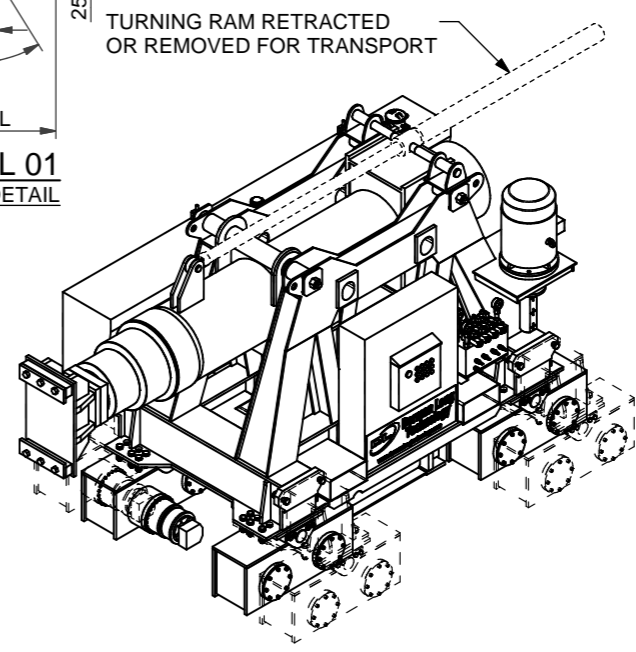
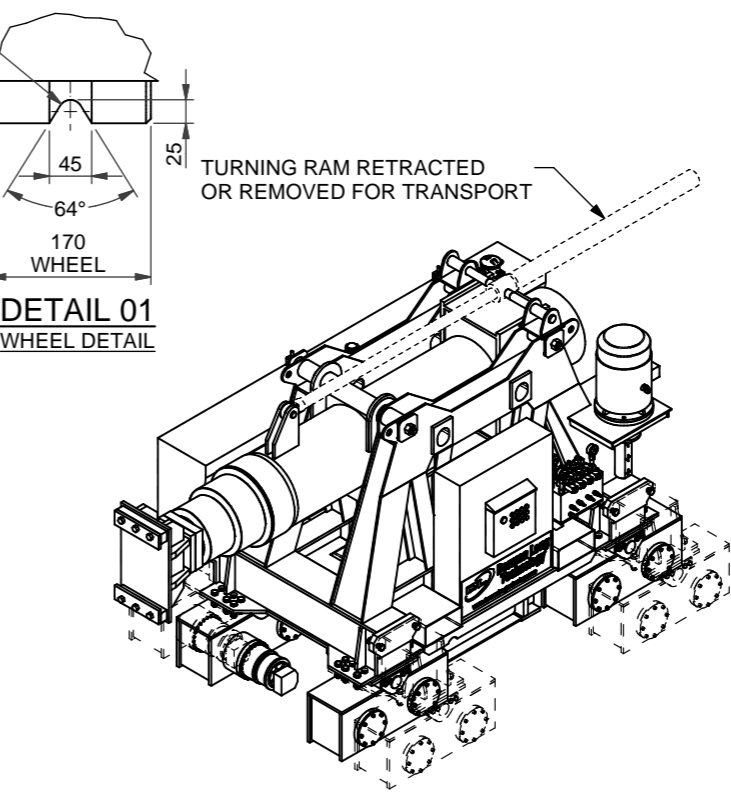
**NOTES**

- 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

**DIMENSIONS FOR TRANSPORT**



**DIMENSIONS FOR OPERATION**



**UNIT FOLDED FOR TRANSPORT**

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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

Original Drawing size: A3  
 Drawing No. **DL-TLG600-002**

Rev. **A**

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**NOTES SPECIFICATION DL-TLG150-HB11.75 HEAD BEAM AND DL-TLG150 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

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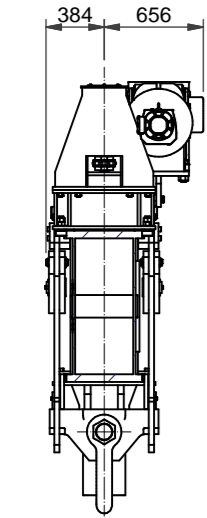
Project DL-TLG600 TELESCOPIC LIFTING GANTRY

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

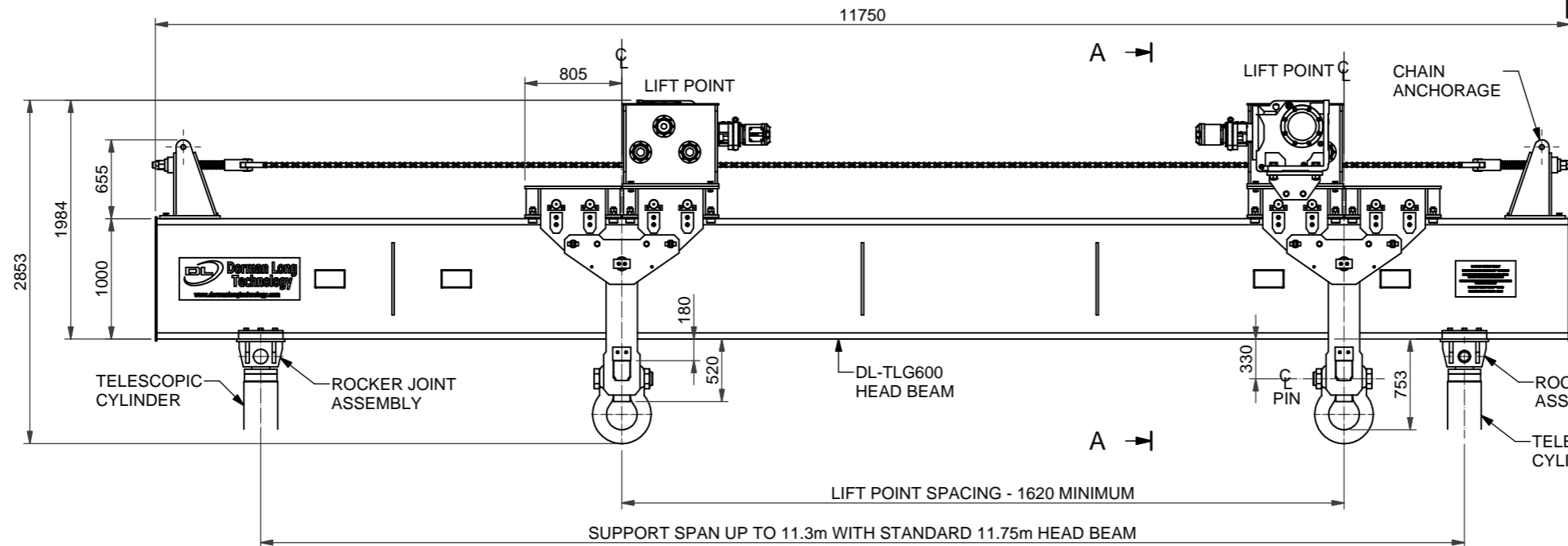
Design Eng: JM	Checking Eng: PD
Drawn by: AW	Project Eng: SAB

Scale (At A3): AS SHOWN	Drawing Status: INFORMATION
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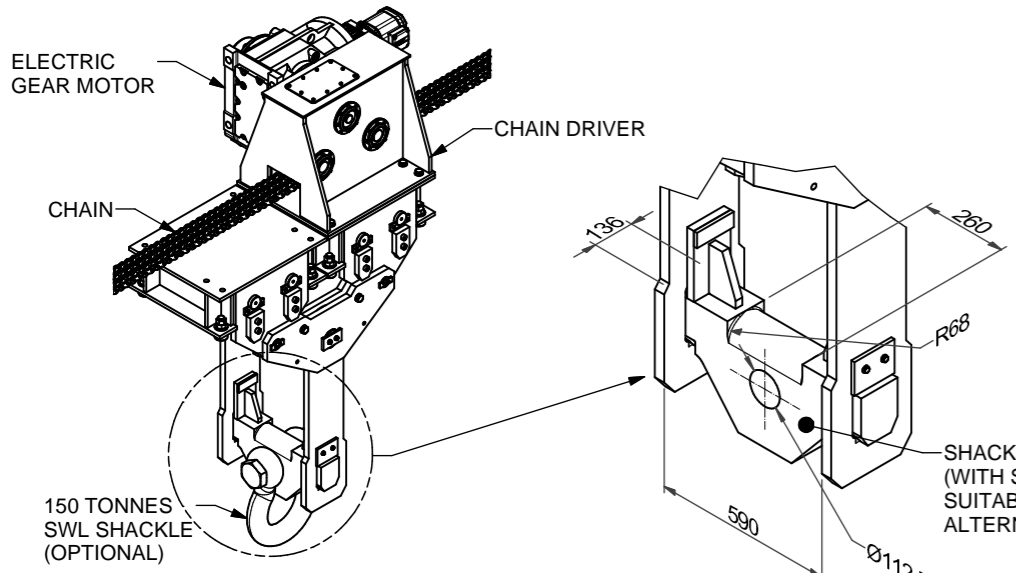
Original Drawing size: A3	Drawing No. DL-TLG600-003-01	Rev. A
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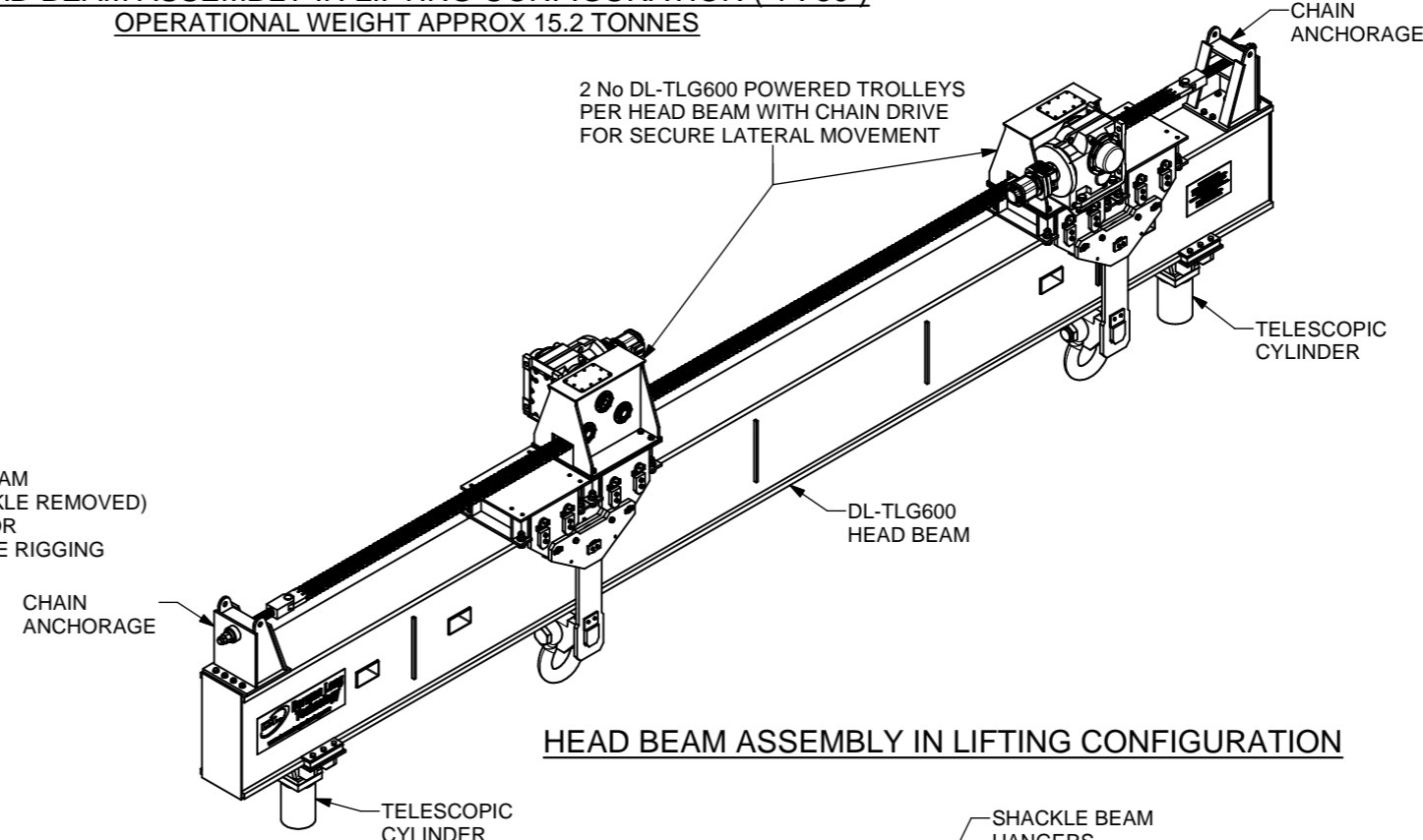
A-A (1 : 50)



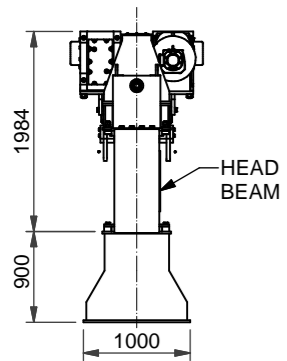
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION ( 1 : 50 ) OPERATIONAL WEIGHT APPROX 15.2 TONNES



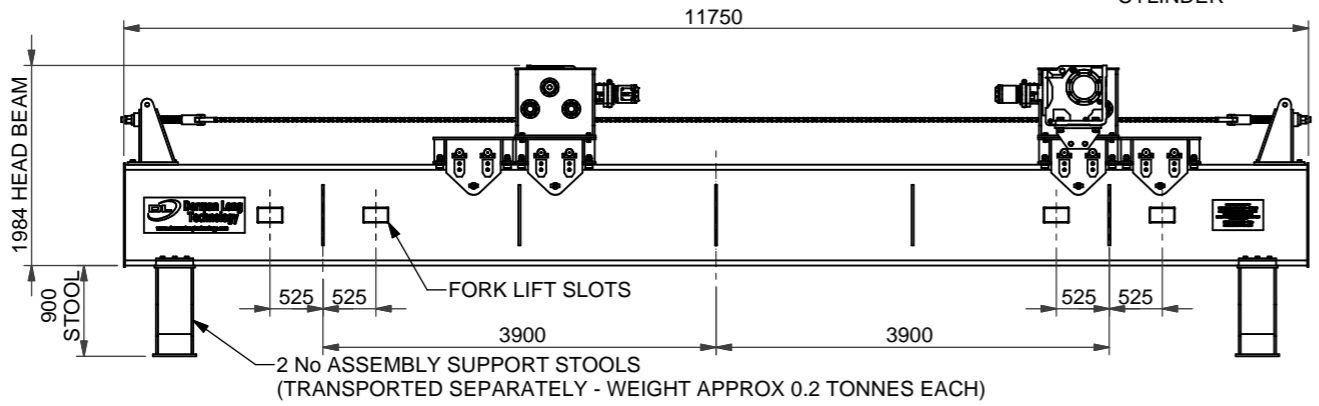
POWERED TROLLEY (HEAD BEAM OMITTED FOR CLARITY)



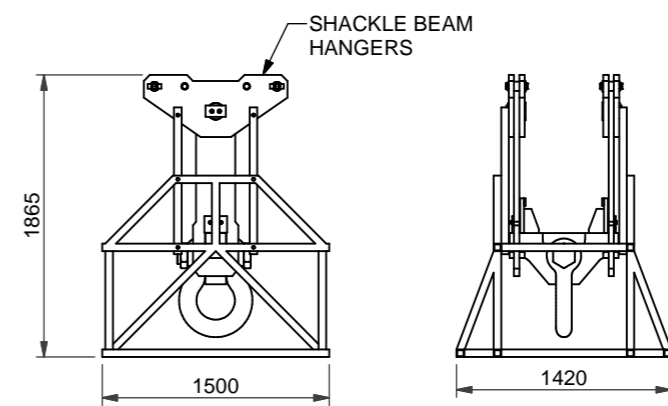
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



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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**NOTES**  
**SPECIFICATION**  
**DL-TLG150-HB11.75 HEAD BEAM AND**  
**DL-TLG150 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

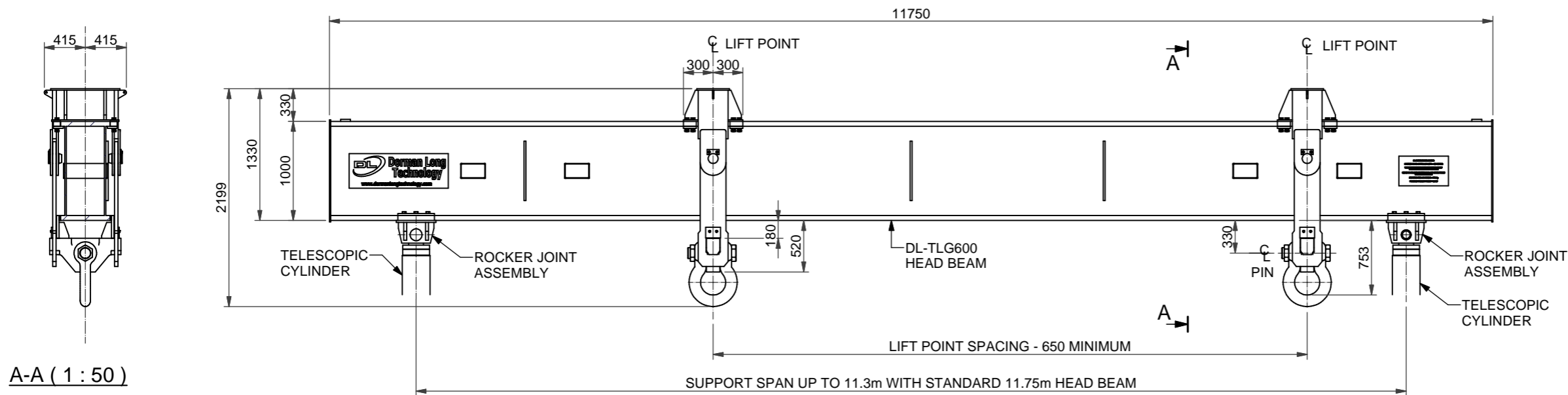
• MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%

• 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.

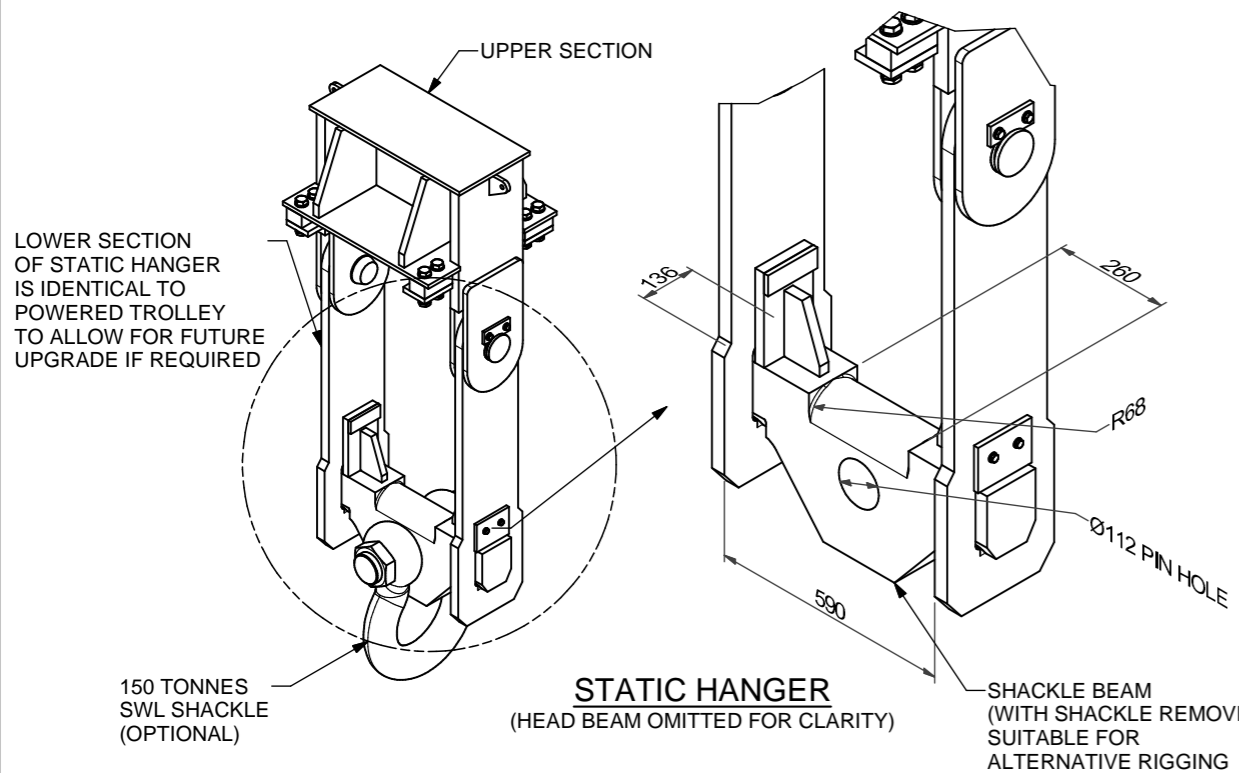
• WEIGHTS  
DL-TLG600 HEAD BEAM = 7300 kg  
STATIC HANGER ASSEMBLY = 2x900 kg  
SUPPORT STOOLS = 2x200 kg

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



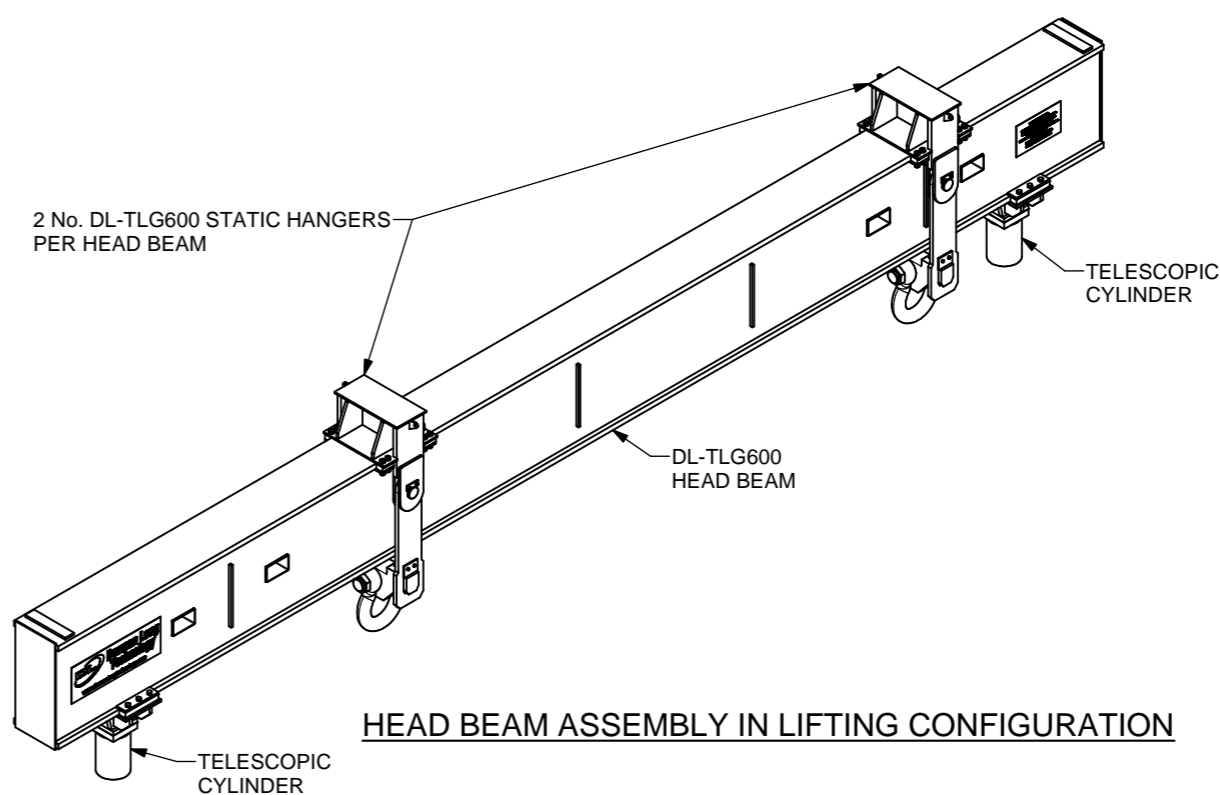
A-A (1 : 50)

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

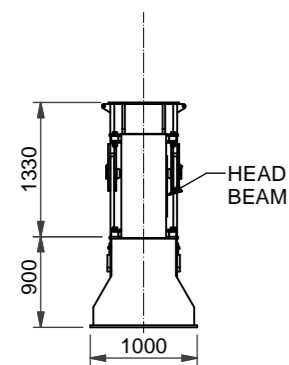


**STATIC HANGER**  
(HEAD BEAM OMITTED FOR CLARITY)

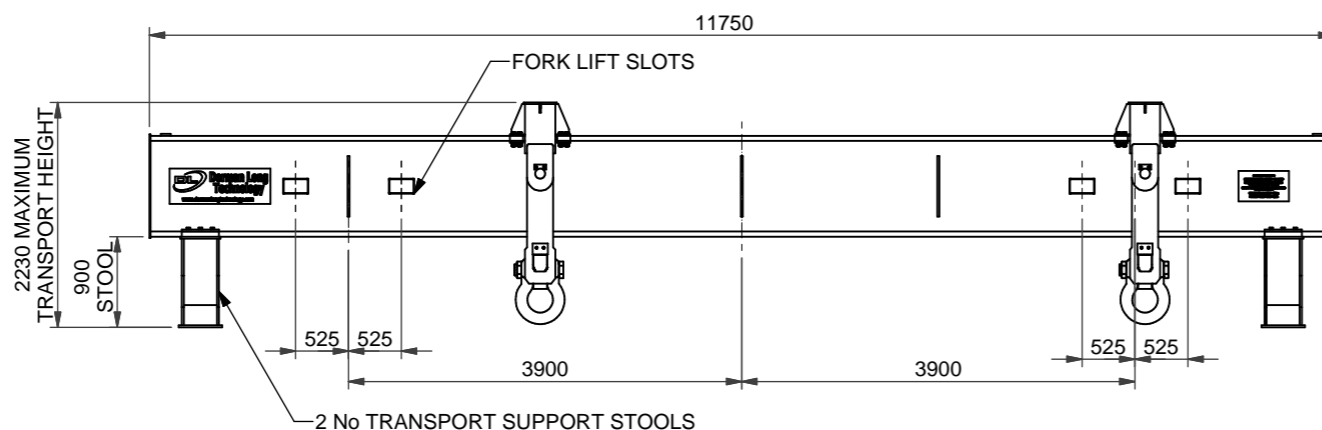
SHACKLE BEAM  
(WITH SHACKLE REMOVED)  
SUITABLE FOR  
ALTERNATIVE RIGGING



**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 & SPECIFICATION

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

Scales (At A3) AS SHOWN Drawing Status INFORMATION

Original Drawing size: A3

Drawing No. DL-TLG600-003-02 Rev. B

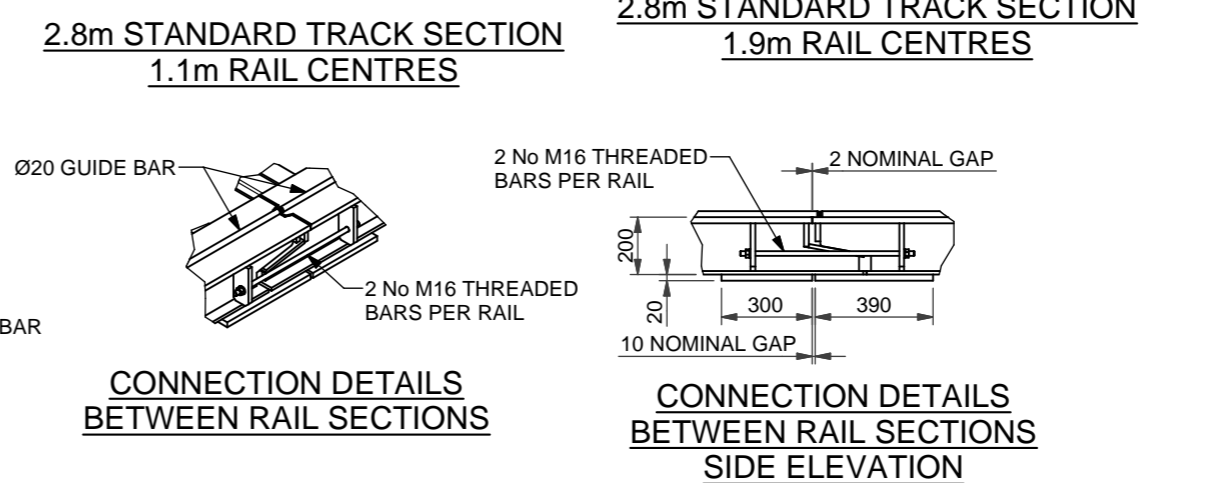
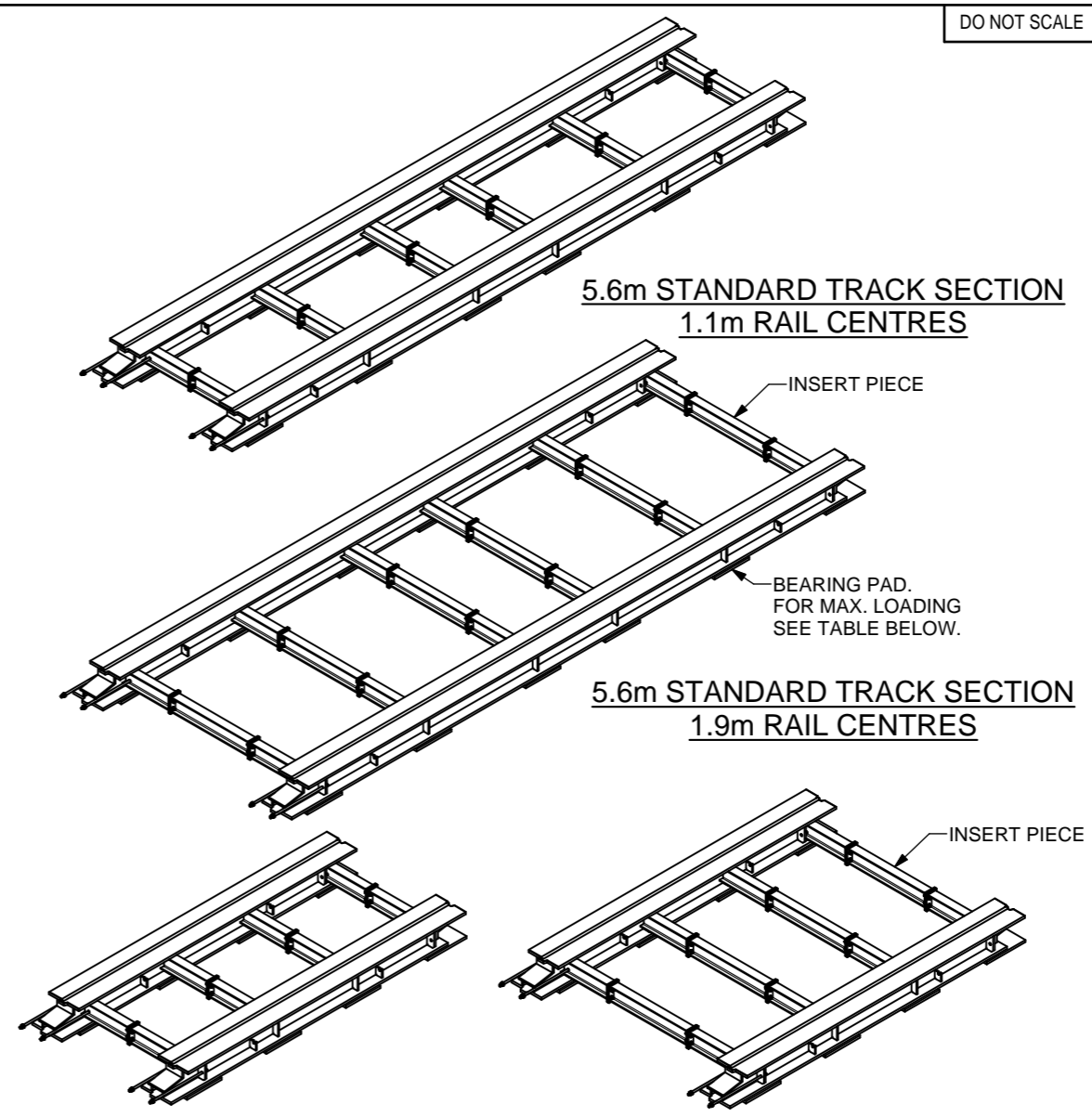
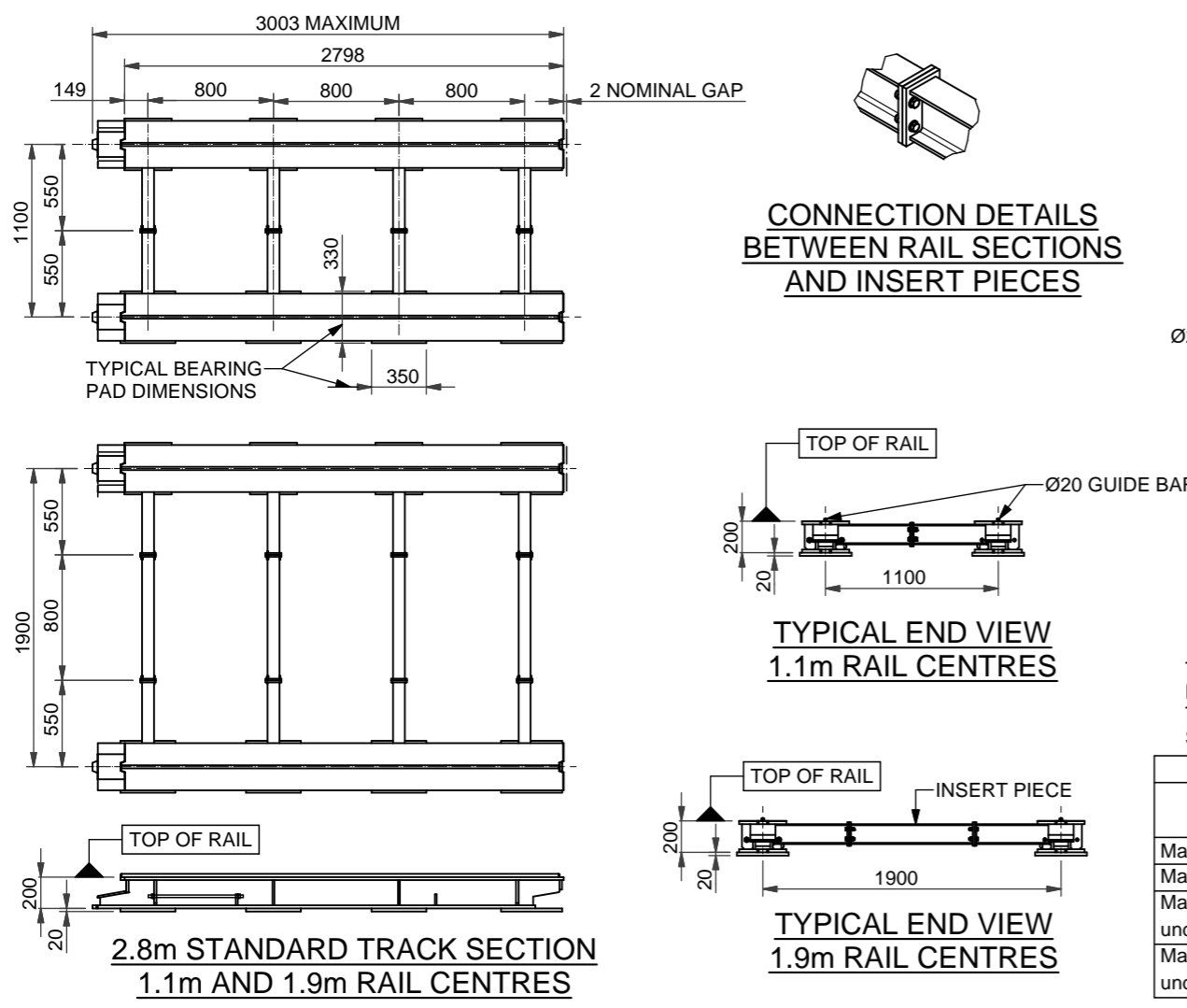
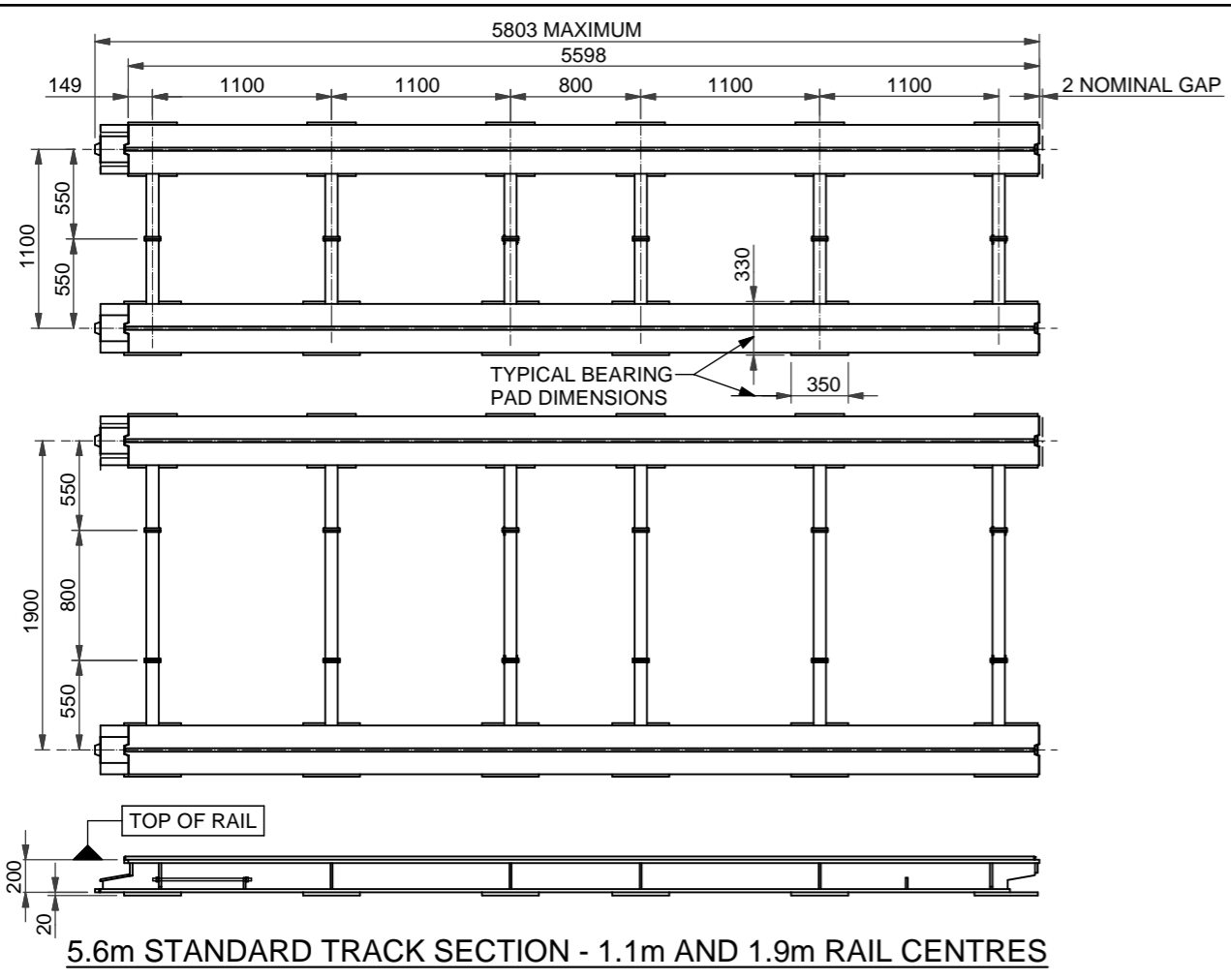


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**NOTES**  
 SPECIFICATION FOR DL-TLG600 STANDARD TRACK SECTIONS

- 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) NTS Original Drawing size: A3 Drawing No. DL-TLG600-004	Design Eng: PD Drawn by: AW Drawing Status:	Checking Eng: JM Project Eng: SAB
	<b>INFORMATION</b>	
		Rev. A

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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

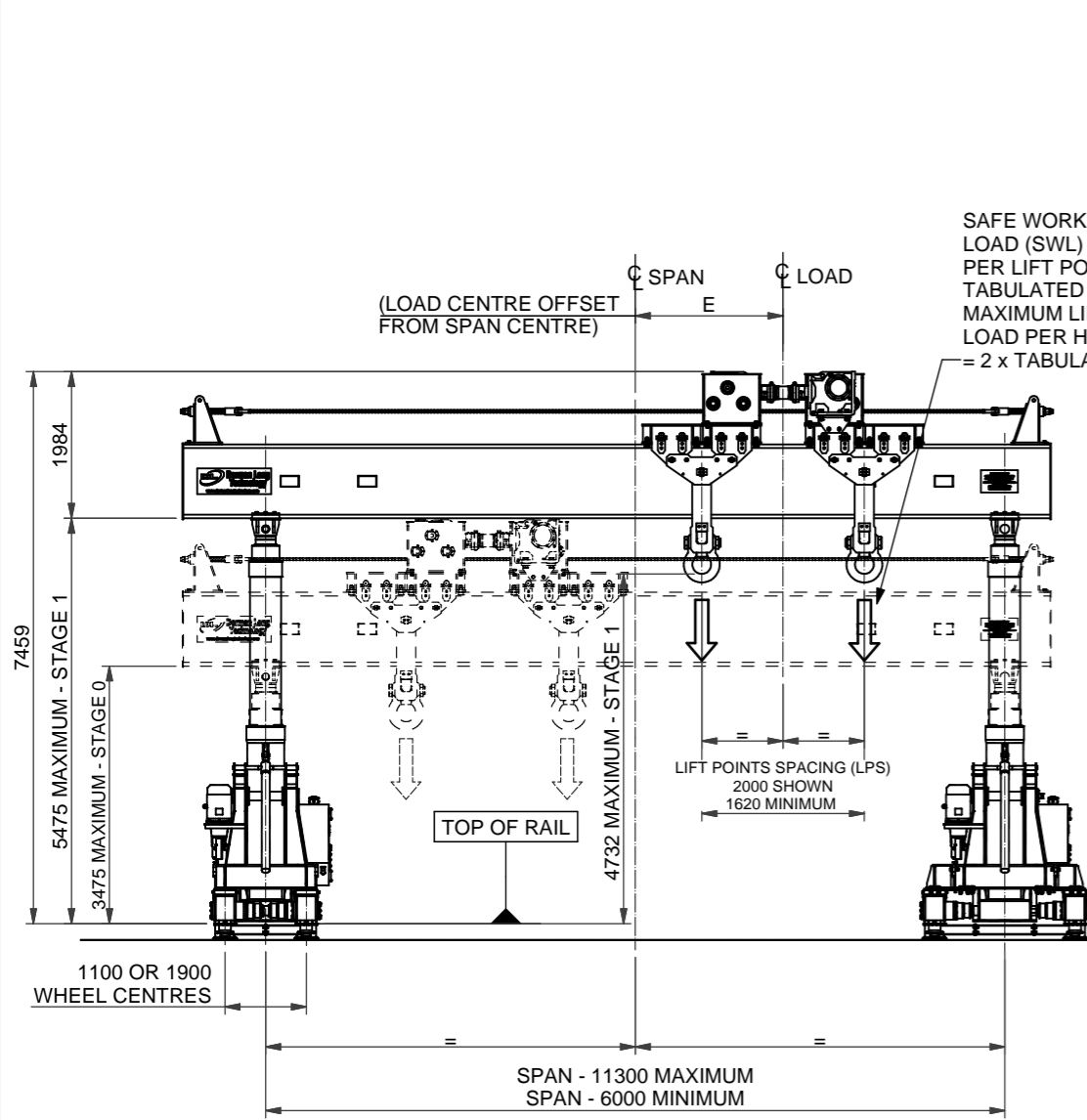
- MAXIMUM SLOPE OF TRACK = 1% IN ANY DIRECTION (BOTH TRACKS AT SAME SLOPE WITHIN TOLERANCE SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)

- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%

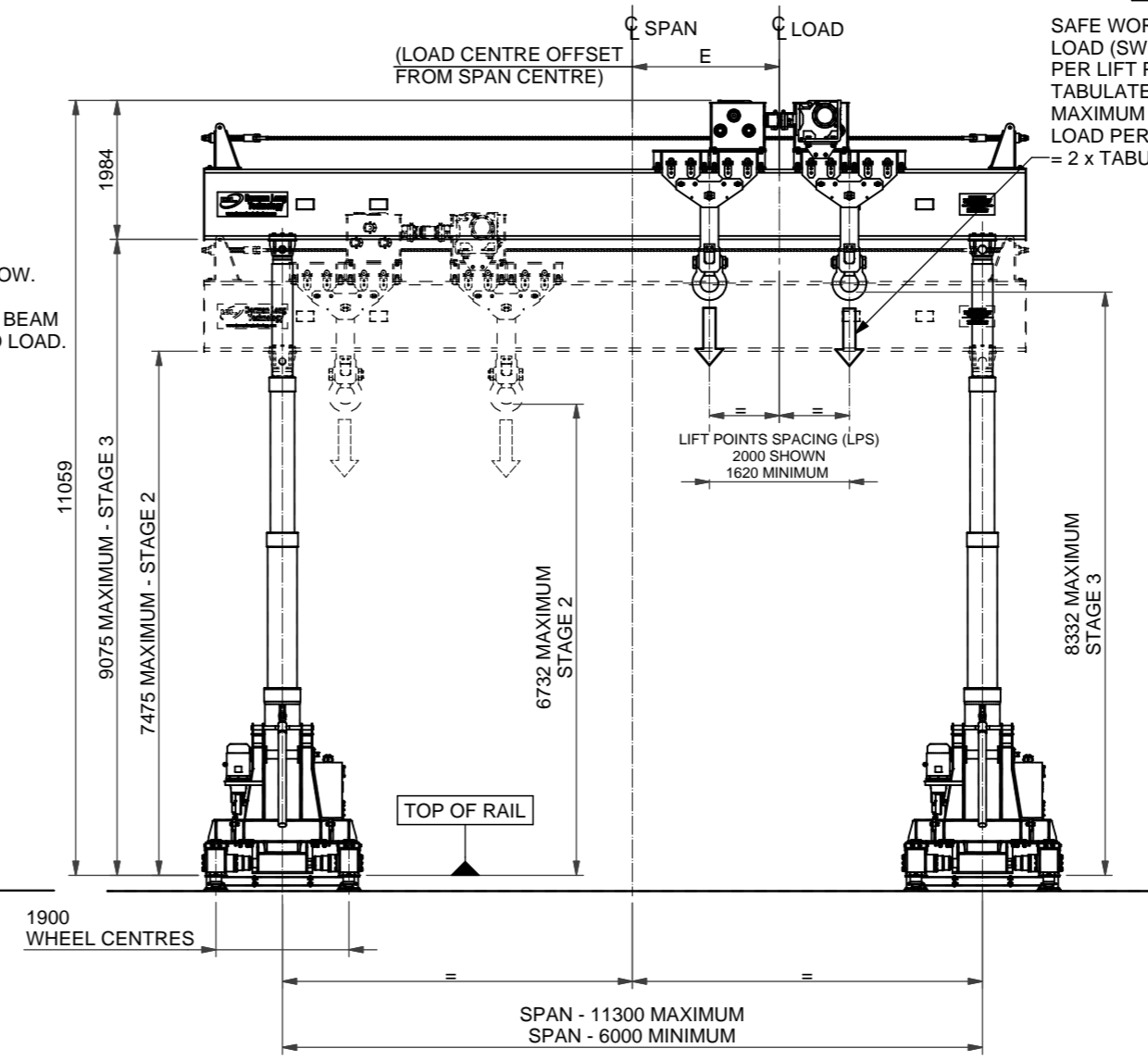
- DL-TLG600 STANDARD TRACK SECTIONS USED WITH 1.1m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 1.9m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 2 AND 3

- 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 DORMAN LONG TECHNOLOGY 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	110.0	
3		92.4	71.1	
1 AND 2	6.00	142.4		
3		92.4		
1 AND 2	7.00	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  
Original Drawing size: A3

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

INTERPOLATION BETWEEN TABULATED VALUES PERMISSABLE  
SEE ALSO OPERATION AND MAINTENANCE MANUAL

DO NOT SCALE

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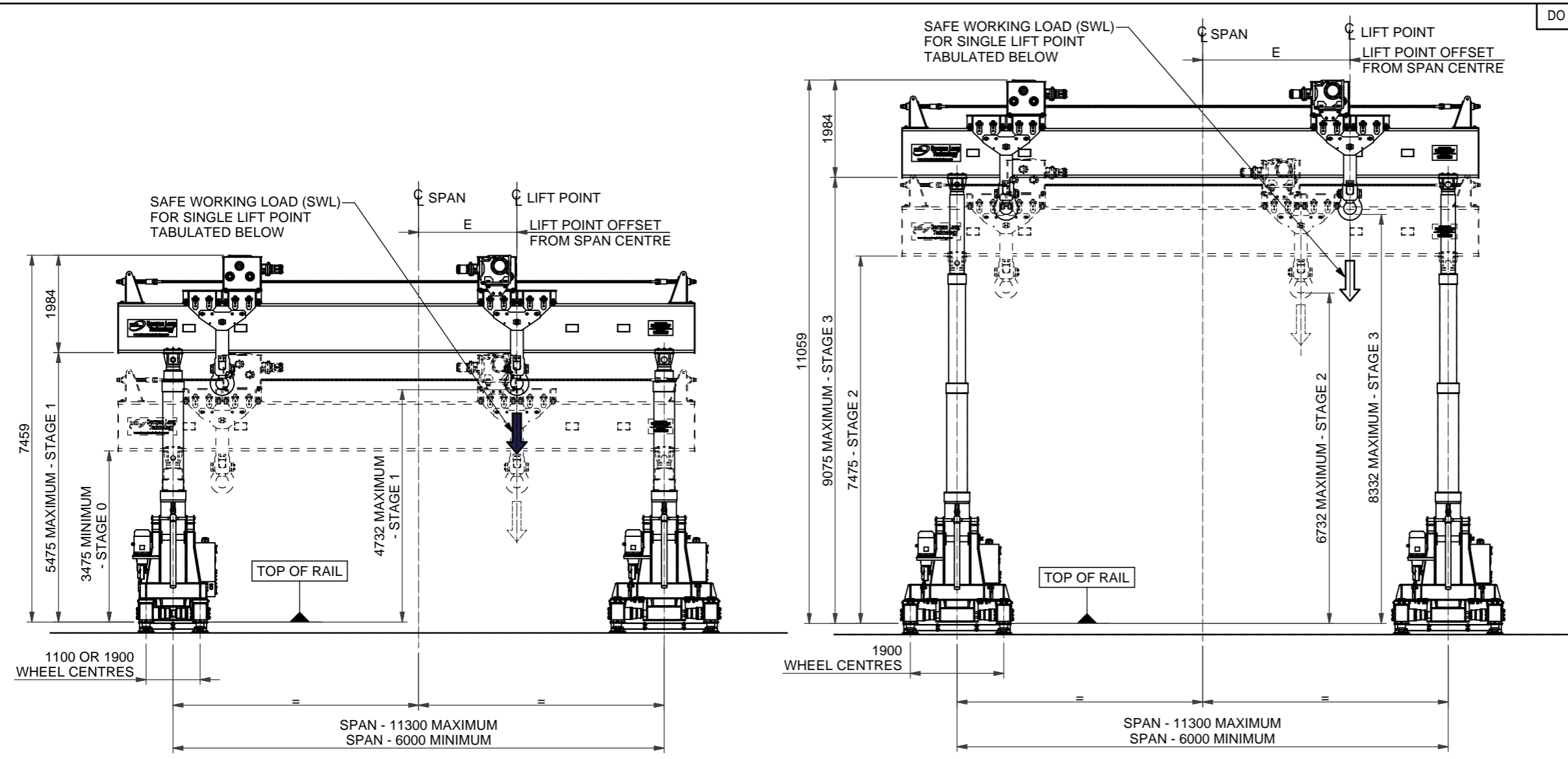
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**NOTES**

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)
- 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 DORMAN LONG TECHNOLOGY 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]					
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

INTERPOLATION BETWEEN TABULATED VALUES PERMISSABLE  
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Project  
 DL-TLG600  
 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  
 Drawing Status  
**INFORMATION**

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