

MAIN FEATURES

- 1200 TONNES LIFTING CAPACITY ON FOUR LIFTING UNITS
- 300 TONNES LIFTING CAPACITY PER TELESCOPIC 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
- COMPLETE DL-TLG1200 SYSTEM CE MARKED IN ACCORDANCE WITH APPROPRIATE EUROPEAN DIRECTIVES
- ALL COMPONENTS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

DL-TLG1200
HEAD BEAM TO SUIT TRACK
CENTRES UP TO 11.2m
SEE DRGS DL-TLG1200-003-01 & 02

POWER AND CONTROL CABLES
TO DL-TLG1200 LIFTING UNITS (BY DLT)

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

POWER IN (BY OTHERS)
120kW MAX RUNNING

DL-TLG1200 STANDARD TRACK SECTIONS
AVAILABLE IN 2.8m AND 5.6m LENGTHS
SEE DRG DL-TLG1200-004

WIRELESS CONTROL
CONSOLE LINKED TO CENTRAL
CONTROL UNIT

4 No. DL-TLG1200 LIFTING UNITS EACH
WITH 3 STAGE TELESCOPIC CYLINDER.
SAFE WORKING LOAD
300, 195 AND 118 TONNES PER UNIT FOR
TELESCOPIC CYLINDER STAGES 1, 2 AND 3
SEE DRG DL-TLG1200-002

2 No. DL-TLG1200 POWERED TROLLEYS PER HEAD BEAM
WITH CHAIN DRIVE FOR SECURE LATERAL MOVEMENT.
SAFE WORKING LOAD 300 TONNES PER UNIT
SEE DRG DL-TLG1200-003-01

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NOTES

SPECIFICATION
DL-TLG1200, 4-POINT LIFT SYSTEM

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDERS
STAGE 1 = 1200 TONNES @ 145 BAR WORKING PRESSURE
STAGE 2 = 780 TONNES @ 145 BAR WORKING PRESSURE
STAGE 3 = 472 TONNES @ 145 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG1200-005-01 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 = 78 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-TLG1200 LIFTING UNITS = 3.0 m/minute (FAST) AND 1.0 m/minute (SLOW)

- TRANSVERSE MOVEMENT SPEED OF DL-TLG1200 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 = 30 kW RUNNING PER DL-TLG1200 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-TLG1200 LIFTING UNIT

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

- ALL COMPONENTS OF DL-TLG1200 SYSTEM SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS.

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Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

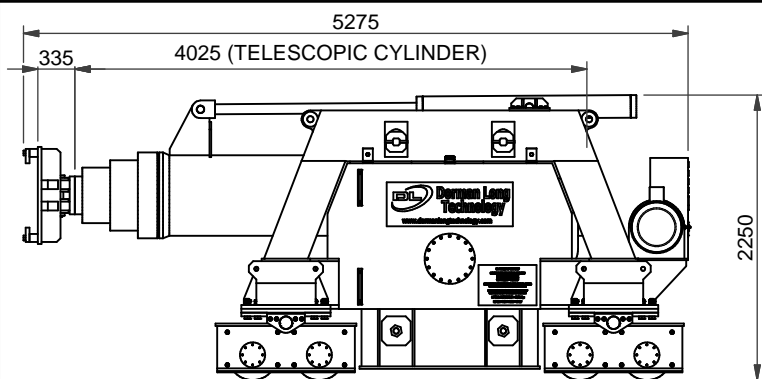
Drawing Title
4-POINT TELESCOPIC LIFTING GANTRY
GENERAL ARRANGEMENT & SPECIFICATION

Scales (At A3)	NTS	Design Eng:	JM	Checking Eng:	PD
		Drawn by:	AW	Project Eng:	SAB

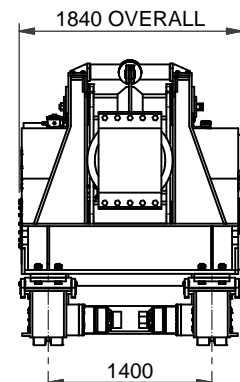
Original Drawing size: A3	Drawing Status
INFORMATION	

Drawing No.	Rev.
DL-TLG1200-001	D

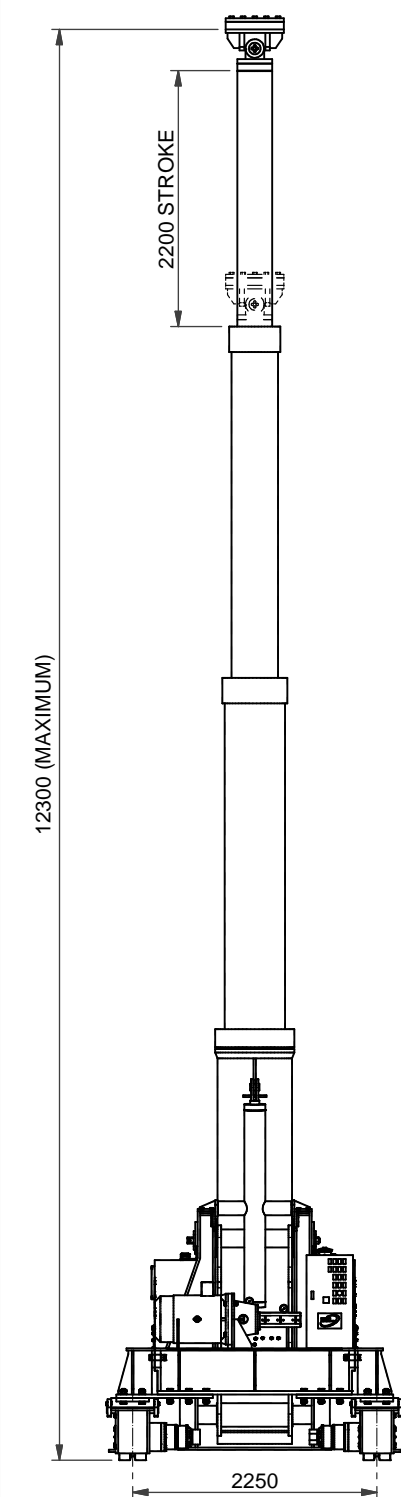
NOTE:
HEAD BEAMS WITH POWERED
TROLLEYS SHOWN.
HEAD BEAMS WITH STATIC
HANGERS AVAILABLE.
SEE DRG DL-TLG1200-003-02



DIMENSIONS FOR TRANSPORT

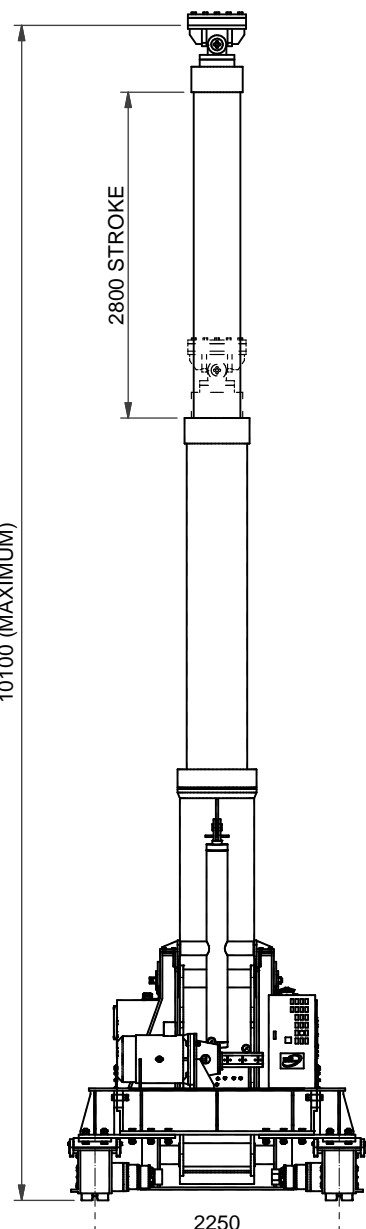


COMPLETE DL-TLG1200 LIFTING UNIT
(WITHOUT BOGIE EXTENSION PIECES)
SUITABLE FOR TRANSPORT IN
STANDARD SHIPPING CONTAINER.



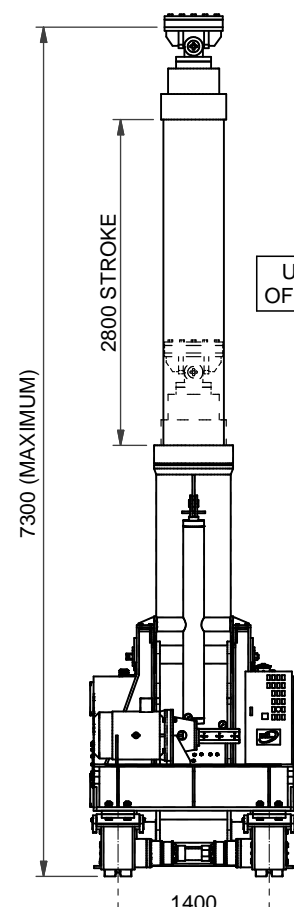
STAGE 3

CAPACITY: 118 Tonnes (EACH UNIT)
MAX % TIPPING = 63%



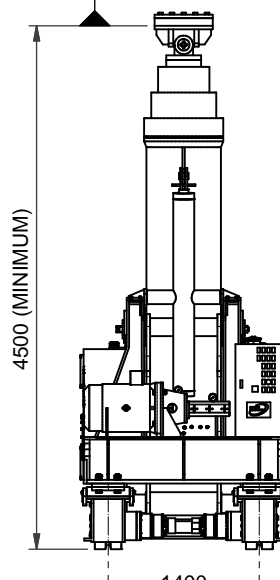
STAGE 2

CAPACITY: 195 Tonnes (EACH UNIT)
MAX % TIPPING = 51%

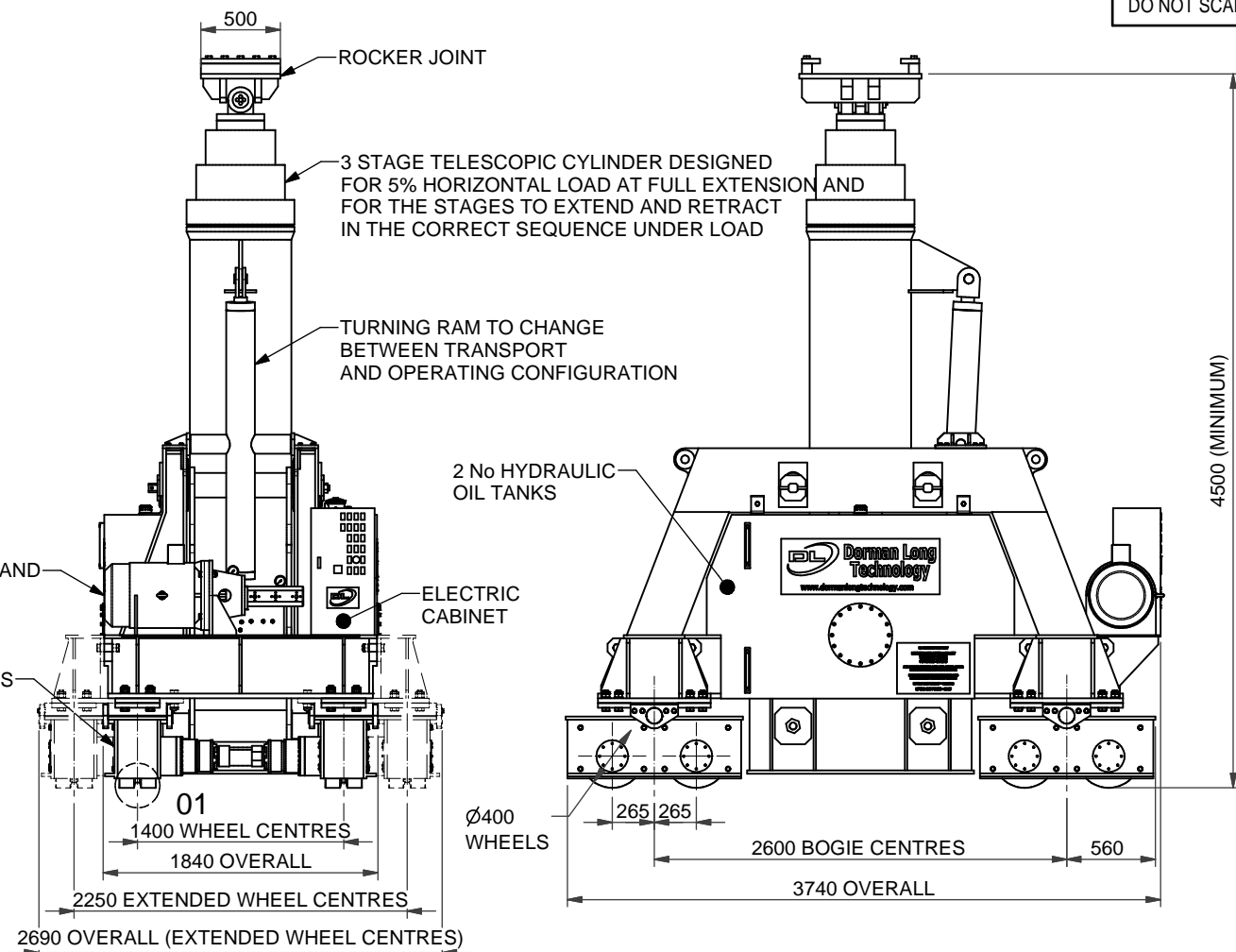


STAGE 1

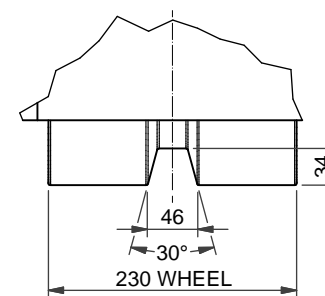
CAPACITY: 300 Tonnes (EACH UNIT)
MAX % TIPPING = 60%



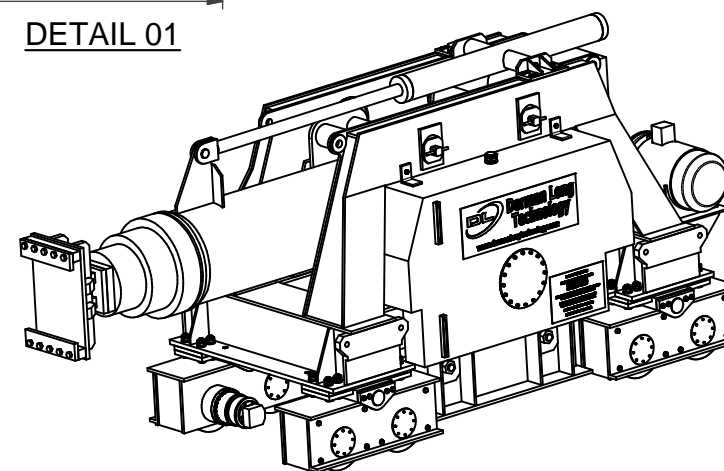
STAGE 0



DIMENSIONS FOR OPERATION



DETAIL 01



UNIT FOLDED FOR TRANSPORT

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NOTES

SPECIFICATION FOR DL-TLG1200 TELESCOPIC LIFTING UNIT

- MAXIMUM SAFE WORKING LOAD (SWL) AT TOP OF TELESCOPIC CYLINDER
STAGE 1 = 300 TONNES @ 145 BAR WORKING PRESSURE
STAGE 2 = 195 TONNES @ 145 BAR WORKING PRESSURE
STAGE 3 = 118 TONNES @ 145 BAR WORKING PRESSURE
SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR DETAILS OF LIFTING ARRANGEMENTS AND DUTY CHARTS

- TELESCOPIC CYLINDER WORKING PRESSURE ON RETRACT = 145 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 = 78 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-TLG1200 LIFTING UNITS = 3.0 m/minute (FAST) AND 0.5 m/minute (SLOW)

- POWER SUPPLY = 380-420 VOLTS AT 50 Hz OR 440-480 VOLTS AT 60 Hz, 3 PHASE + EARTH
- MAXIMUM POWER CONSUMPTION = 30 kW RUNNING PER DL-TLG1200 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-TLG1200 LIFTING UNIT

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

- TELESCOPIC CYLINDER FOLDS AS SHOWN SO THAT COMPLETE DL-TLG1200 LIFTING UNIT (WITHOUT BOGIE EXTENSION PIECES) IS SUITABLE FOR TRANSPORT IN A STANDARD SHIPPING CONTAINER

- WEIGHTS:
BASE UNIT - STEEL FRAME AND PINS = 5,500 kg
BASE UNIT - DRIVEN BOGIES (4 x 965 kg) = 3,860 kg
BASE UNIT - OTHER EQUIPMENT = 1,000 kg
TELESCOPIC CYLINDER = 6,100 kg
ROCKER JOINT ASSEMBLY = 400 kg
HYDRAULIC OIL = 1,470 kg
TOTAL = 18,330 kg

- HYDRAULIC OIL TANK SIZE = 2 x 850 litres = 1,700 litres



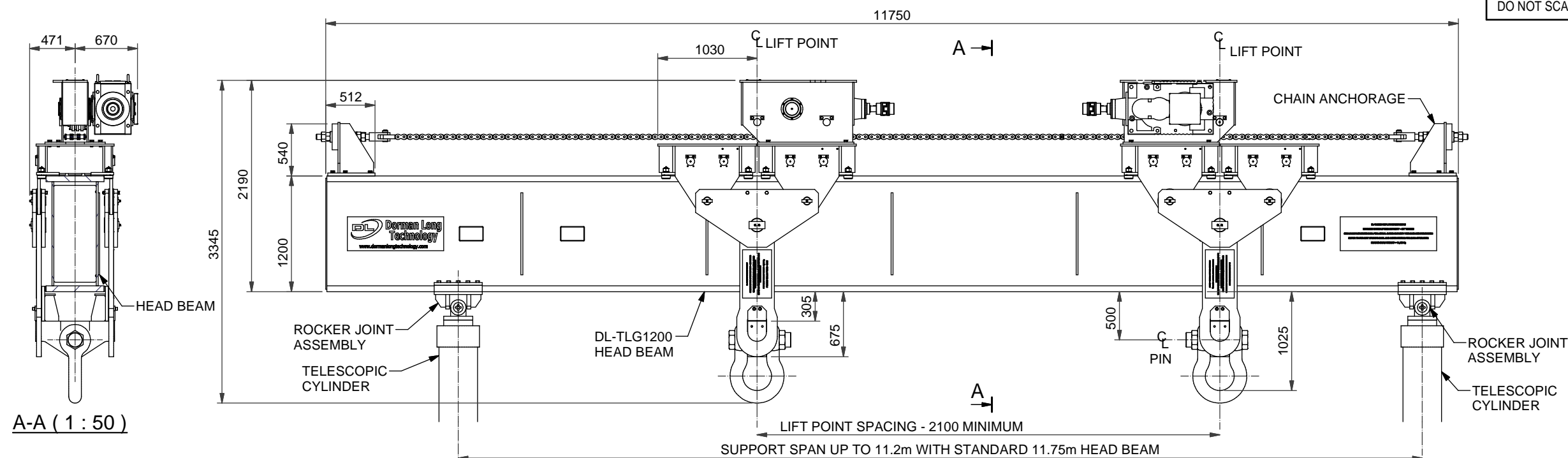
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Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG1200 TELESCOPIC LIFTING UNIT
GENERAL ARRANGEMENT
AND SPECIFICATION

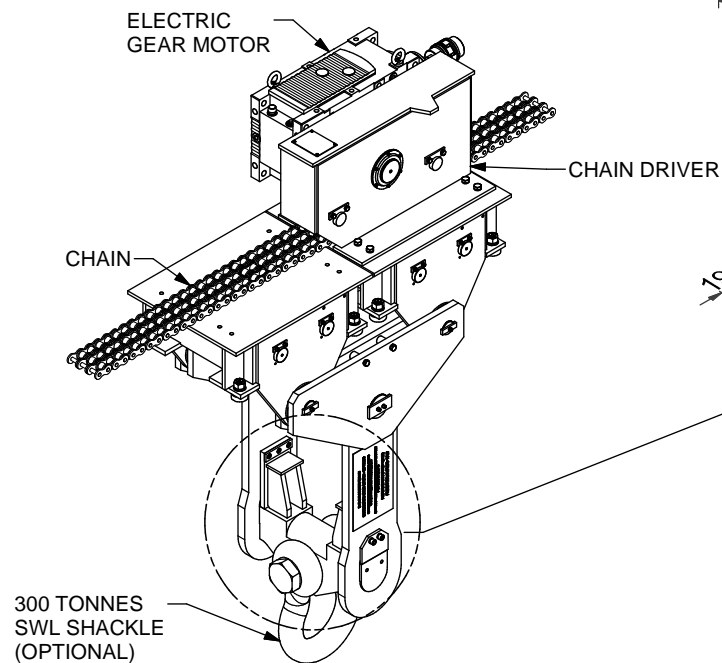
Scales (At A3) NTS	Design Eng: PD	Checking Eng: JM
	Drawn by: AW	Project Eng: SAB
Drawing Status ORIGINAL Drawing size: A3		
INFORMATION		

Drawing No. DL-TLG1200-002	Rev. C
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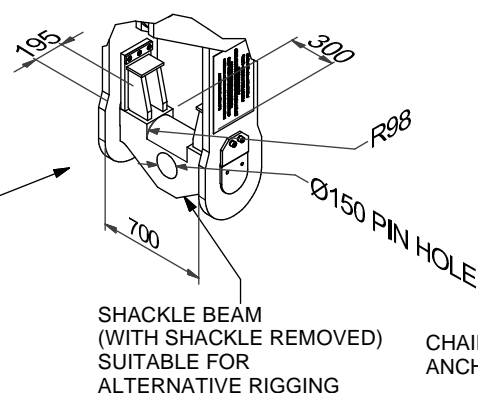


A-A (1 : 50)

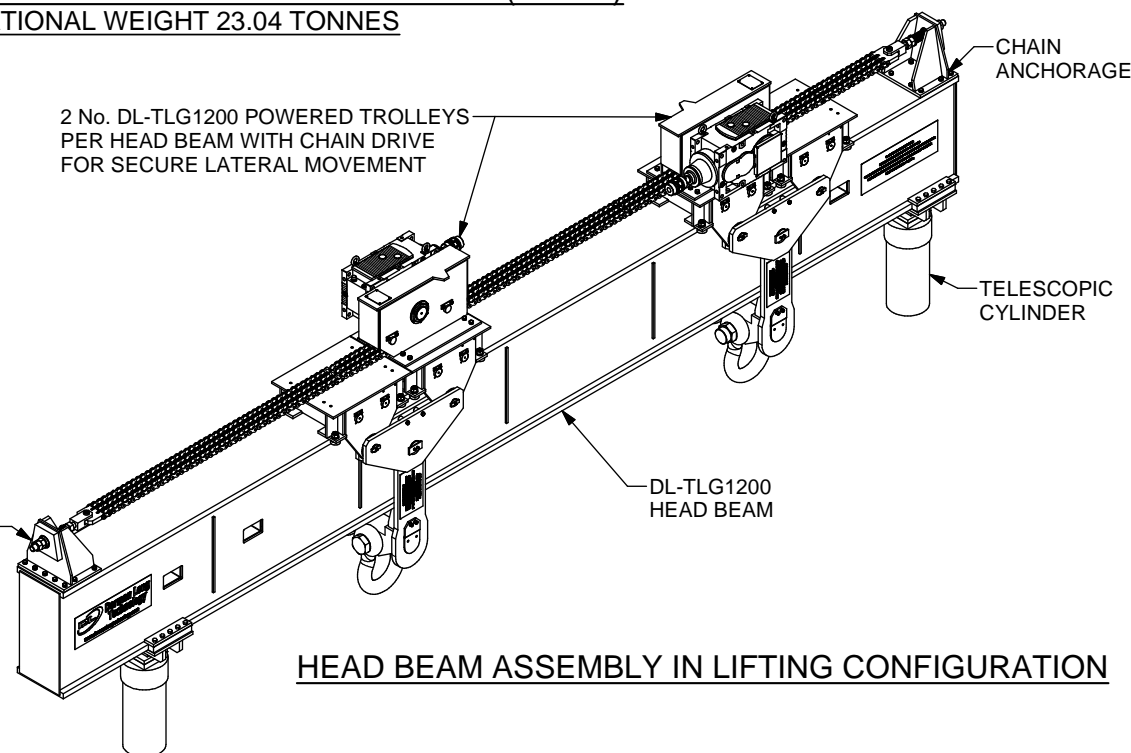
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
OPERATIONAL WEIGHT 23.04 TONNES



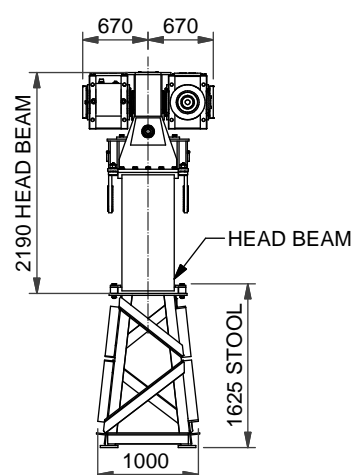
POWERED TROLLEY
(HEAD BEAM OMITTED FOR CLARITY)



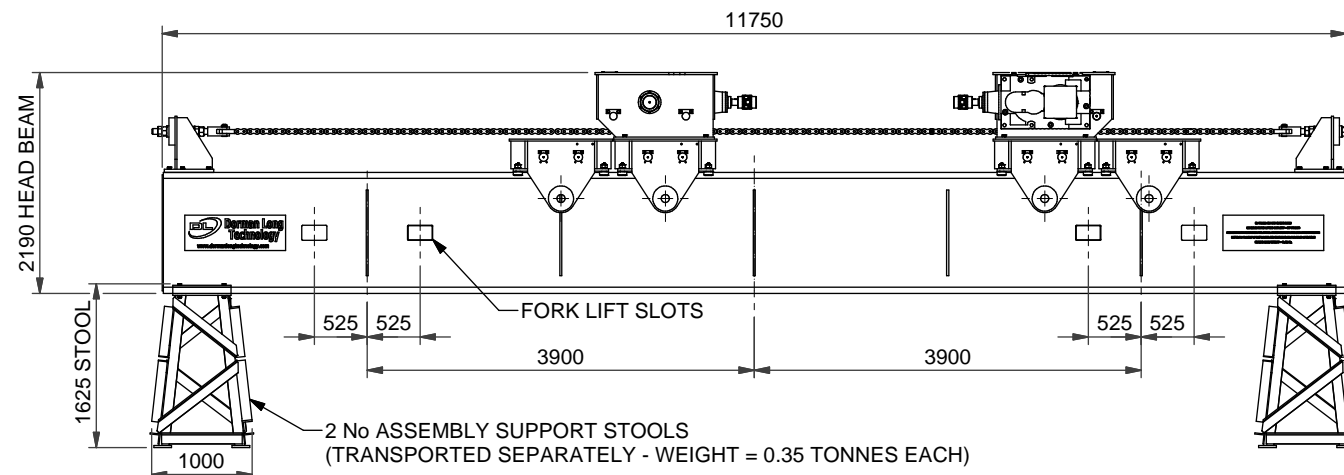
2 No. DL-TLG1200 POWERED TROLLEYS
PER HEAD BEAM WITH CHAIN DRIVE
FOR SECURE LATERAL MOVEMENT



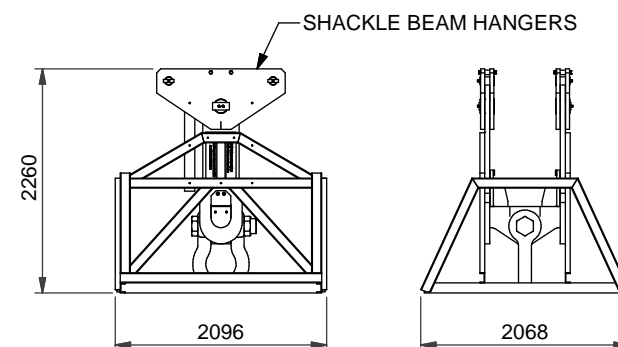
HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION
(1 : 75)



HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 75)
TRANSPORT WEIGHT 18.90 TONNES



SHACKLE BEAM HANGER IN
TRANSPORT CONFIGURATION
2 No THUS
TRANSPORT WEIGHT = 2.26 TONNES EACH

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NOTES

SPECIFICATION DL-TLG1200 HEAD BEAM AND DL-TLG1200 POWERED TROLLEY

- MAXIMUM SAFE WORKING LOAD (SWL) = 300 TONNES PER LIFT POINT = 577 TONNES PER HEAD BEAM
SEE DRAWINGS DL-TLG1200-005-01 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-TLG300 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 = 2.2 kW RUNNING PER DL-TLG1200 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-TLG1200 LIFTING UNIT

- OPERATING TEMPERATURE = -20 TO +45 °C

- WEIGHTS:-
DL-TLG1200 HEAD BEAM = 11,100 kg
POWERED TROLLEY = 2x 5,350 kg
CHAIN & CHAIN ANCHORAGES = 1,240 kg

TOTAL OPERATING WEIGHT = 23,040 kg

- DL-TLG1200 HEAD BEAM AND POWERED TROLLEYS SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS AS SHOWN

- TRANSPORT WEIGHTS:-
HEAD BEAM AND UPPER SECTION OF POWERED TROLLEYS = 18,900 kg

SHACKLE BEAM HANGERS (INCLUDING TRANSPORT FRAMES) = 2 x 2,260 kg

ASSEMBLY SUPPORT STOOLS = 2 x 350 kg



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Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG1200 HEAD BEAM AND
DL-TLG1200 POWERED TROLLEY
GENERAL ARRANGEMENT AND SPECIFICATION

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

Original Drawing size: A3
Drawing No. DL-TLG1200-003-01

Rev. A

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NOTES

SPECIFICATION **DL-TLG1200 HEAD BEAM AND** **DL-TLG1200 STATIC HANGERS**

- MAXIMUM SAFE WORKING LOAD (SWL) = 300 TONNES PER LIFT POINT = 585 TONNES PER HEAD BEAM
SEE DRAWINGS DL-TLG1200-005-01 AND 02 FOR LIFTING ARRANGEMENTS AND DUTY CHARTS

- MAXIMUM HORIZONTAL LOAD = 5% OF VERTICAL LOAD IN ANY DIRECTION

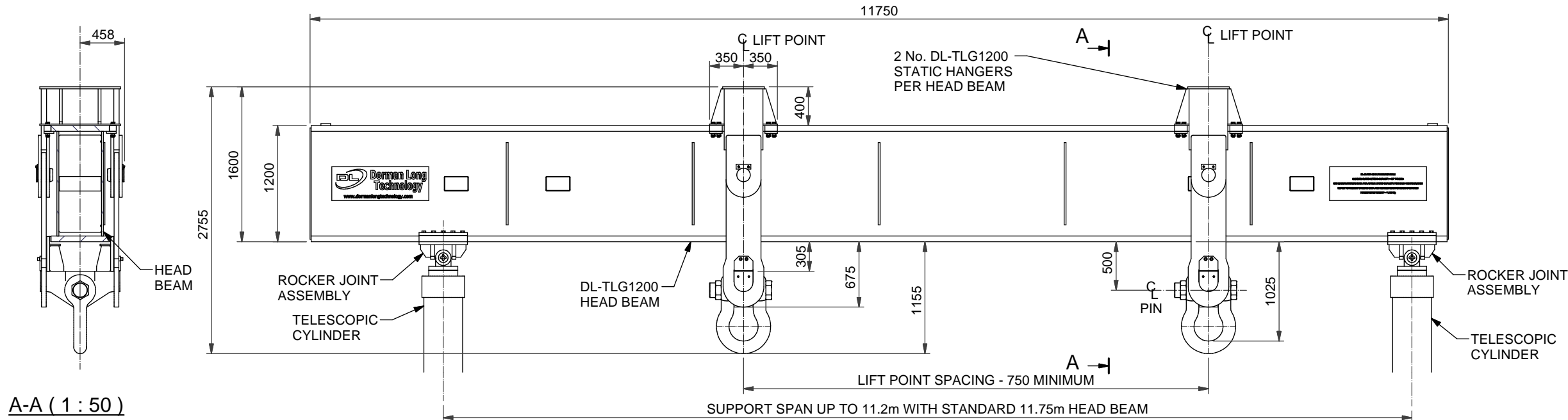
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/-1%

- OPERATING TEMPERATURE = -20 TO +45 °C

- DL-TLG1200 HEAD BEAM SUPPORTED ON 2 No. SUPPORT STOOL ASSEMBLIES AND COMPLETE WITH ALL EQUIPMENT IS SUITABLE FOR TRANSPORT IN A STANDARD 40' SHIPPING CONTAINER.

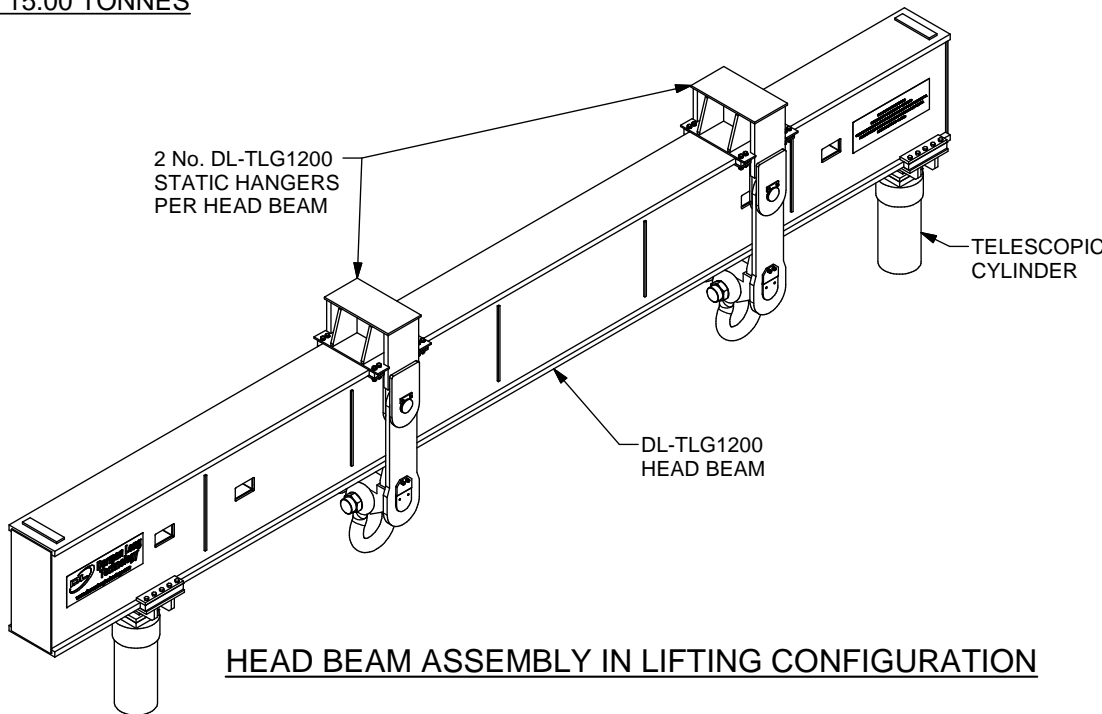
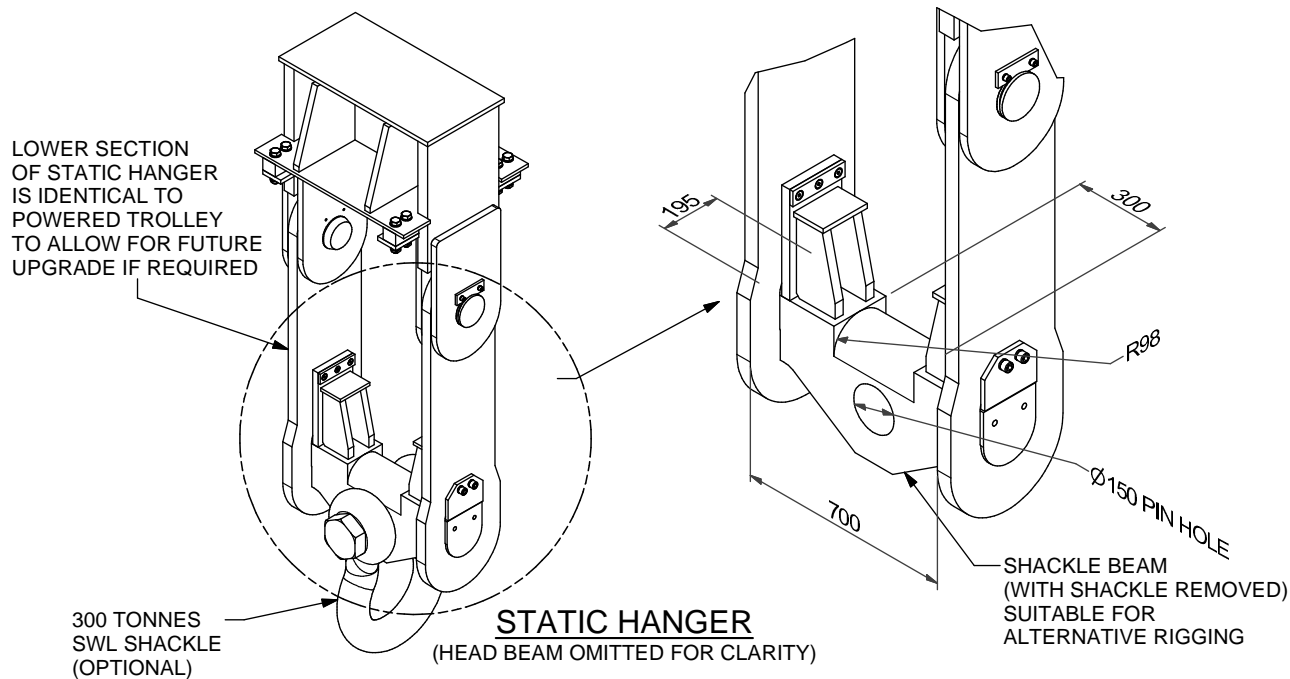
- WEIGHTS:-
DL-TLG1200 HEAD BEAM = 11,100 kg
STATIC HANGERS = 2x 1,950 kg
SUPPORT STOOL ASSEMBLIES = 2x 250 kg

TOTAL OPERATING WEIGHT = 15,000 kg
TOTAL TRANSPORT WEIGHT = 15,500 kg

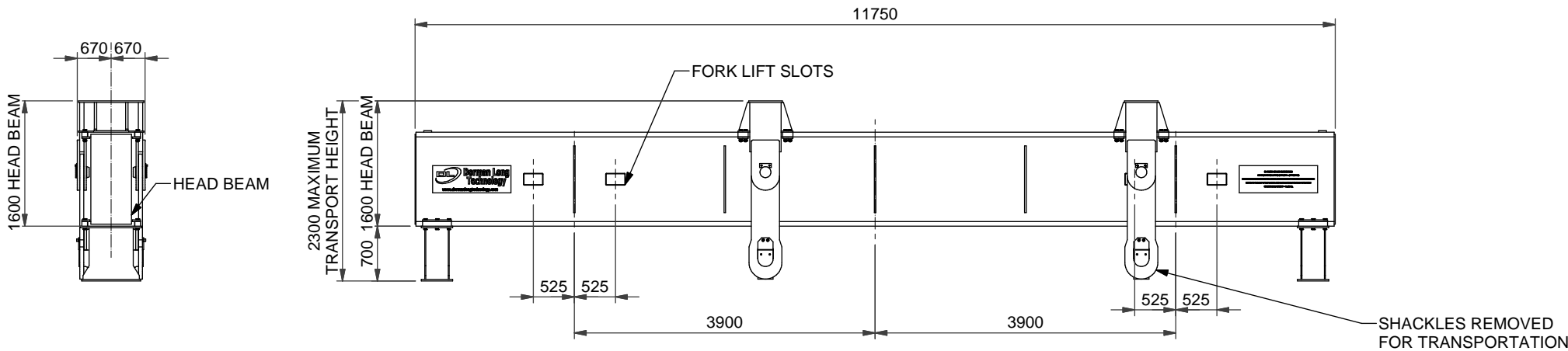


A-A (1 : 50)

HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION (1 : 50)
OPERATIONAL WEIGHT 15.00 TONNES



HEAD BEAM ASSEMBLY IN LIFTING CONFIGURATION



END ELEVATION
(1 : 75)

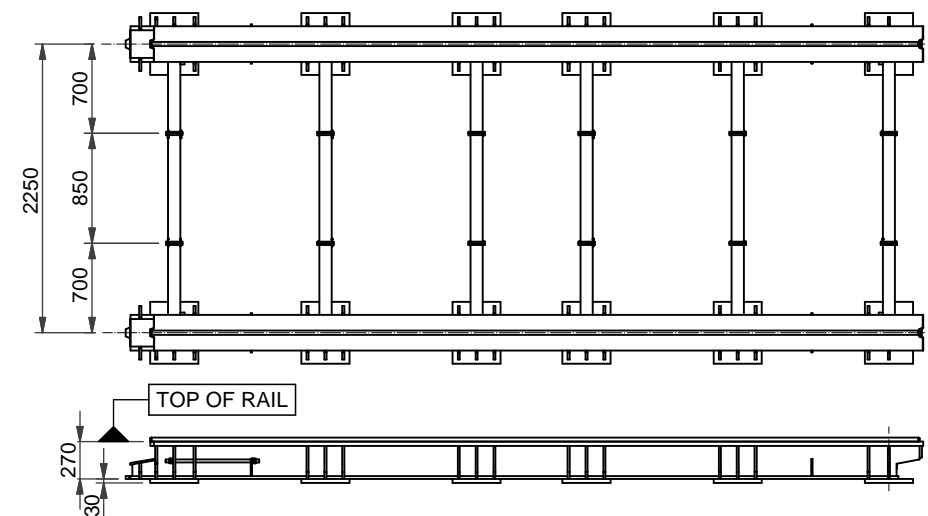
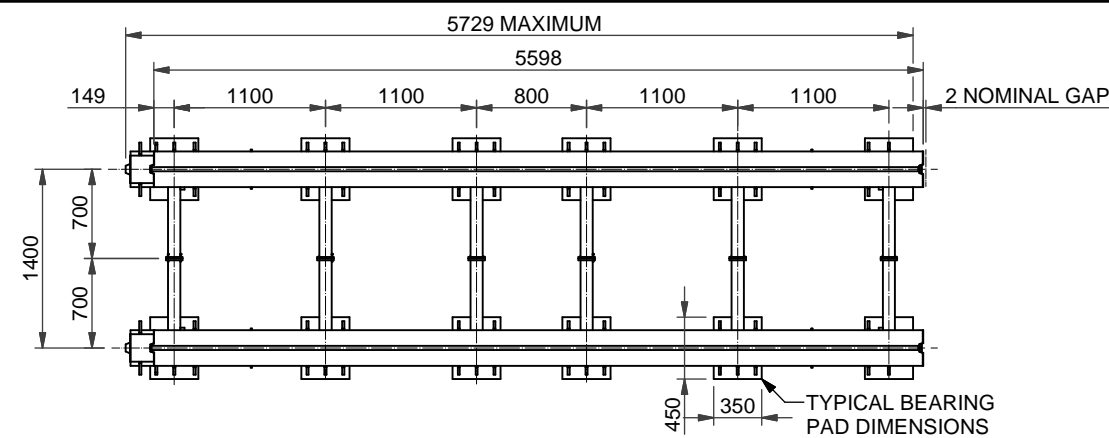
HEAD BEAM ASSEMBLY IN TRANSPORT CONFIGURATION (1 : 75)
TRANSPORT WEIGHT 15.50 TONNES (INCLUDING SHACKLES)

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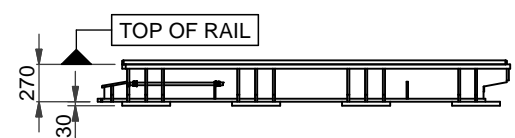
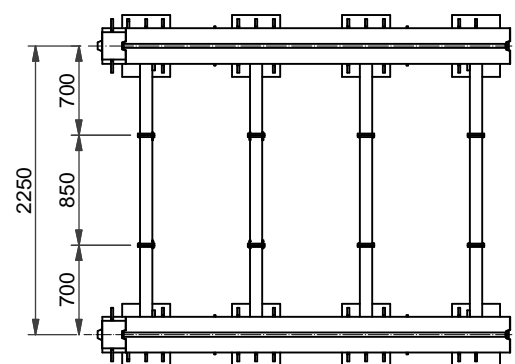
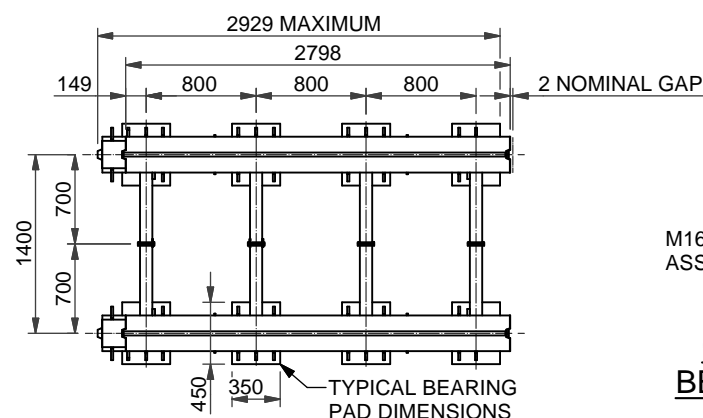
Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG1200 HEAD BEAM AND
DL-TLG1200 STATIC HANGERS
GENERAL ARRANGEMENT AND SPECIFICATION

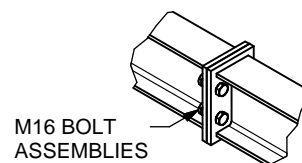
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Drawing Status		
INFORMATION		
Original Drawing size: A3		
Drawing No.		Rev.
DL-TLG1200-003-02		B



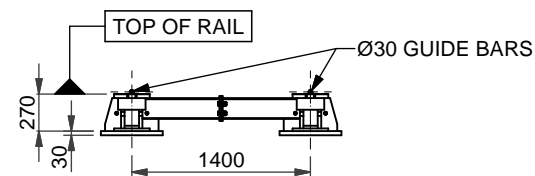
5.6m STANDARD TRACK SECTION - 1.4m AND 2.25m RAIL CENTRES



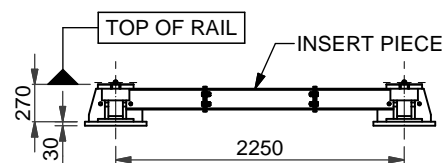
2.8m STANDARD TRACK SECTION
1.4m AND 2.25m RAIL CENTRES



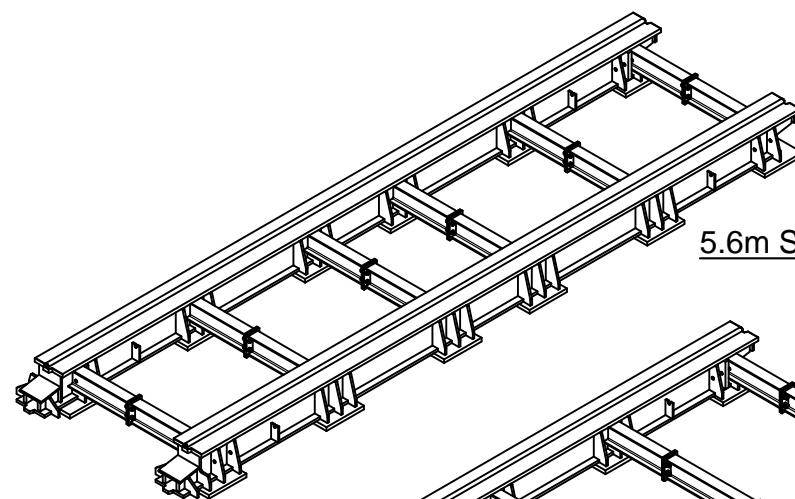
CONNECTION DETAILS
BETWEEN RAIL SECTIONS
AND INSERT PIECES



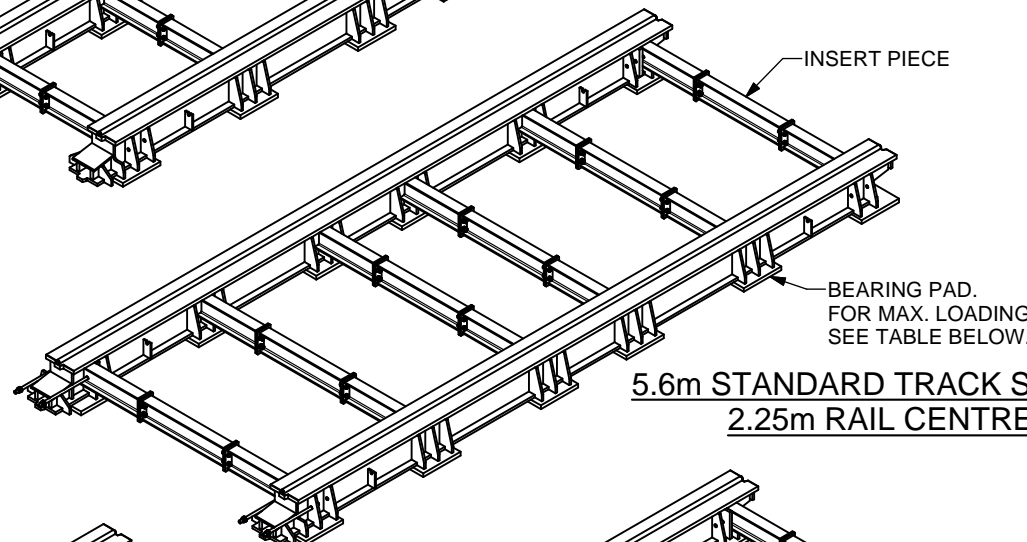
TYPICAL END VIEW
1.4m RAIL CENTRES



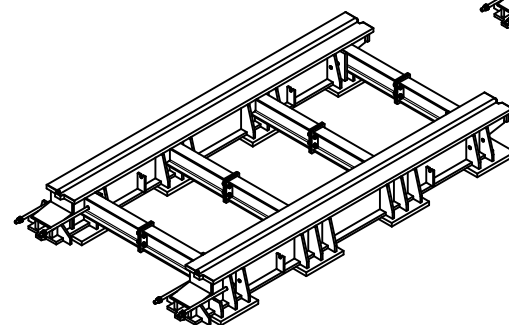
TYPICAL END VIEW
2.25m RAIL CENTRES



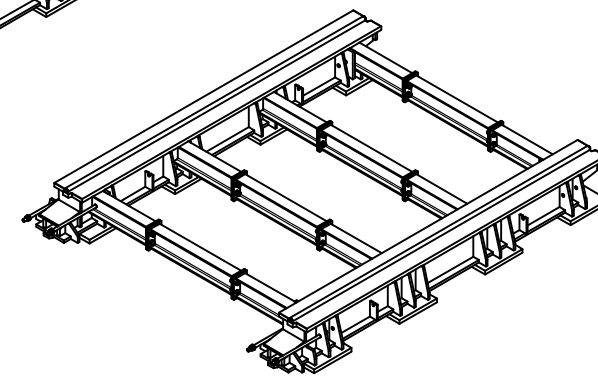
5.6m STANDARD TRACK SECTION
1.4m RAIL CENTRES



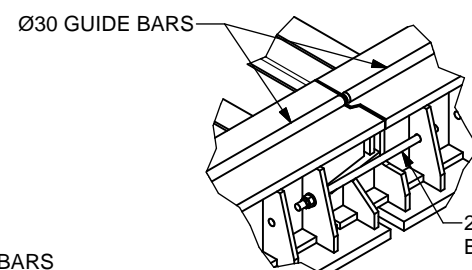
5.6m STANDARD TRACK SECTION
2.25m RAIL CENTRES



2.8m STANDARD TRACK SECTION
1.4m RAIL CENTRES



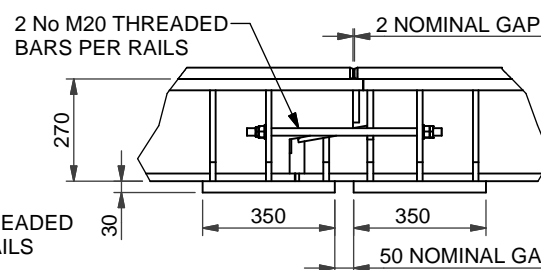
2.8m STANDARD TRACK SECTION
2.25m RAIL CENTRES



CONNECTION DETAIL
BETWEEN RAIL SECTIONS

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-TLG1200 Standard Track - Maximum Loads			
	Telescopic Cylinder Stage 1 1.4m Rail Centres	Telescopic Cylinder Stage 2 2.25m Rail Centres	Telescopic Cylinder Stage 3 2.25m Rail Centres
Maximum Wheel Load on Track	78 Tonnes	55 Tonnes	38 Tonnes
Maximum Load on each Bearing Pad	144 Tonnes	100 Tonnes	71 Tonnes
Maximum Average Bearing Pressure under each Bearing Pad	9.0 MPa	6.3 MPa	4.4 MPa
Maximum Peak Bearing Pressure under each Bearing Pad	11.5 MPa	9.4 MPa	7.6 MPa



CONNECTION DETAIL
BETWEEN RAIL SECTIONS
SIDE ELEVATION

DO NOT SCALE

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NOTES

SPECIFICATION FOR DL-TLG1200 STANDARD TRACK SECTIONS

• STANDARD TRACK SECTIONS SUPPLIED IN LENGTHS GIVING EFFECTIVE TRACK LENGTHS OF 5.6m AND 2.8m (OVERALL LENGTHS OF 5,804mm AND 3,004mm)

• STANDARD TRACK SECTIONS SUPPLIED WITH RAILS AT 1.4m CENTRES AND WITH INSERT PIECES TO INCREASE RAILS TO 2.25m 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

• TRACK SECTION COMPONENTS ARE SUITABLE FOR TRANSPORT IN STANDARD SHIPPING CONTAINERS

WEIGHTS

5.6m LONG x 1.4m RAIL CENTRES = 2,900 kg

5.6m LONG x 2.25m RAIL CENTRES = 3,020 kg

2.8m LONG x 1.4m RAIL CENTRES = 1,590 kg

2.8m LONG x 2.25m RAIL CENTRES = 1,660 kg



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Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

Drawing Title
DL-TLG1200 STANDARD TRACK SECTIONS
GENERAL ARRANGEMENT
AND SPECIFICATION

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

Scales (At A3) NTS
Drawing Status
INFORMATION

Original Drawing size: A3

Drawing No. DL-TLG1200-004

Rev. C

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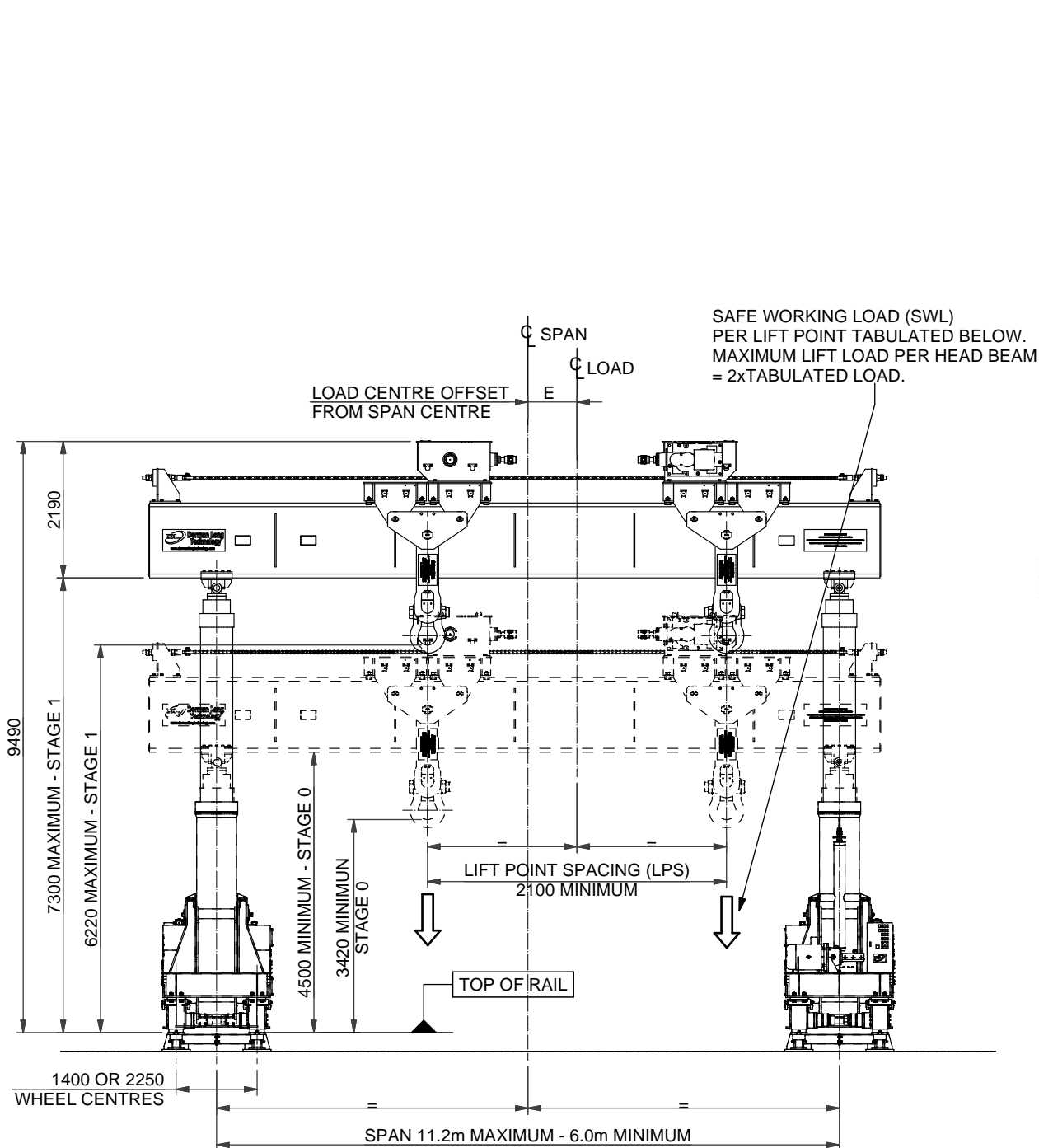
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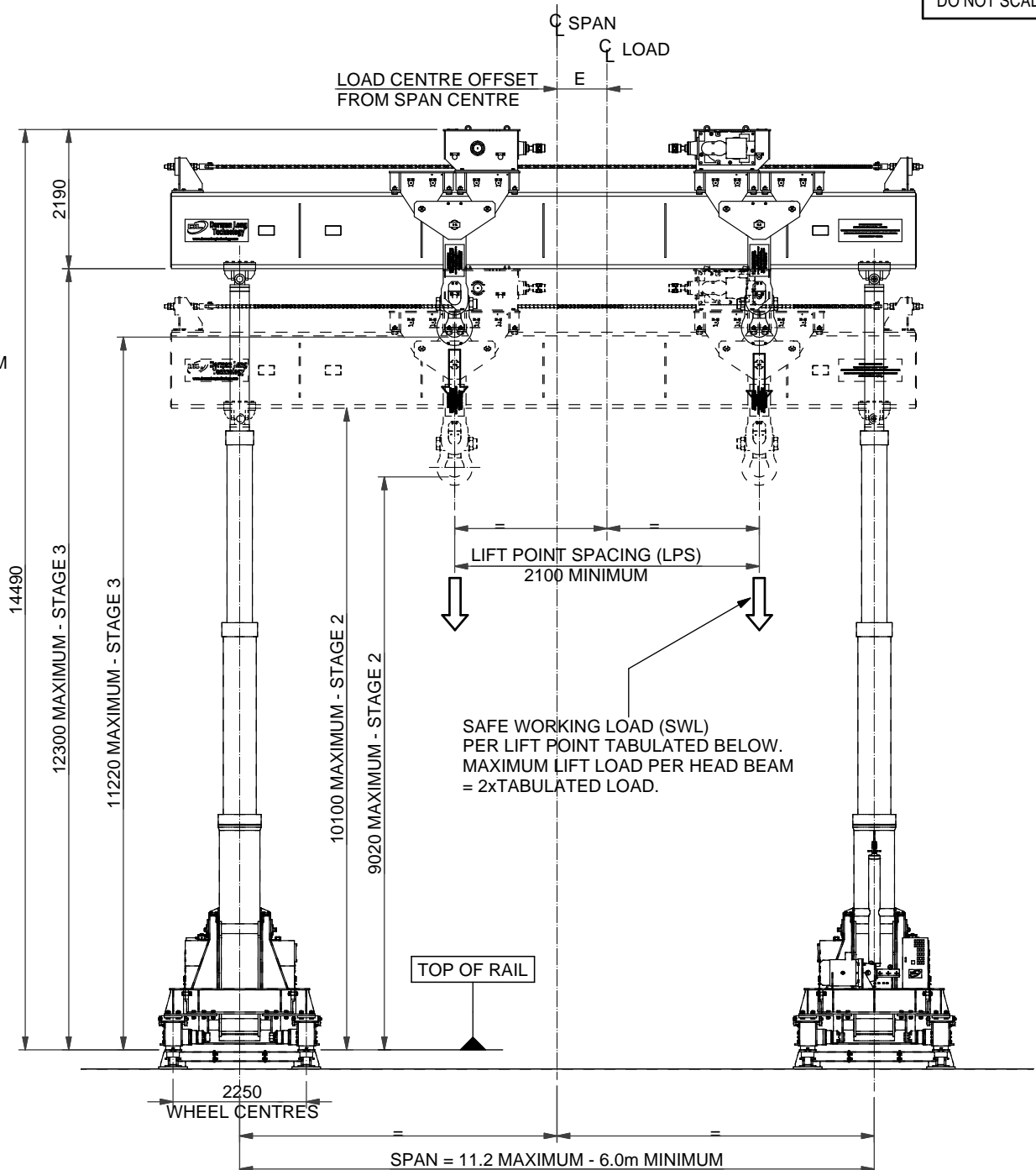
DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG1200 COMPONENTS WITH DL-TLG1200 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 TOLERANCES SPECIFIED IN OPERATION AND MAINTENANCE MANUAL)
- MAXIMUM TRANSVERSE SLOPE OF HEAD BEAM = +/- 1%
- DL-TLG1200 STANDARD TRACK SECTIONS USED WITH 1.4m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 2.25m 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-TLG1200 TELESCOPIC LIFTING GANTRY IS TO BE USED IN A CONFIGURATION NOT SHOWN ON THIS 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 4500 TO LEVEL 7300



STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 10100
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 12300

SPAN 11.20m 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	2.10	203.4	203.0	211.7	186.6
2		184.0	155.4	134.4	118.2
3		107.0	90.1	77.6	68.0
1	3.00	227.0	221.9	211.7	
2		184.0	155.4	134.4	
3		107.0	90.1	77.6	
1	4.00	260.0	244.5	211.7	
2		184.0	155.4	134.4	
3		107.0	90.1	77.6	
1	5.00	289.0	244.5	211.7	
2		184.0	155.4	134.4	
3		107.0	90.1	77.6	
1	6.00	289.0	244.5		
2		184.0	155.4		
3		107.0	90.1		
1	7.00	289.0	244.5		
2		184.0	155.4		
3		107.0	90.1		
1	8.00	289.0			
2		184.0			
3		107.0			

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	2.10	236.0	235.4	205.1	178.9
2		184.0	152.6	130.1	113.2
3		107.0	88.4	75.1	65.1
1	3.00	267.7	240.1	205.1	178.9
2		184.0	152.6	130.1	113.2
3		107.0	88.4	75.1	65.1
1	4.00	289.0	240.1	205.1	
2		184.0	152.6	130.1	
3		107.0	88.4	75.1	
1	5.00	289.0	240.1	205.1	
2		184.0	152.6	130.1	
3		107.0	88.4	75.1	
1	6.00	289.0	240.1		
2		184.0	152.6		
3		107.0	88.4		
1	7.00	289.0	240.1		
2		184.0	152.6		
3		107.0	88.4		
1	8.00	289.0			
2		184.0			
3		107.0			

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	2.10	271.8	235.6	198.6	171.5
2		184.0	149.7	125.9	108.5
3		107.0	86.7	72.6	62.3
1	3.00	289.0	235.6	198.6	
2		184.0	149.7	125.9	
3		107.0	86.7	72.6	
1	4.00	289.0	235.6	198.6	
2		184.0	149.7	125.9	
3		107.0	86.7	72.6	
1	5.00	289.0	235.6		
2		184.0	149.7		
3		107.0	86.7		
1	6.00	289.0	235.6		
2		184.0	149.7		
3		107.0	86.7		
1	7.00	289.0			
2		184.0			
3		107.0			
1	8.00	289.0			
2		184.0			
3		107.0			

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	2.10	289.0	230.3	191.1
2		184.0	146.3	121.1
3		107.0	84.7	69.8
1	3.00	289.0	230.3	191.1
2		184.0	146.3	121.1
3		107.0	84.7	69.8
1	4.00	289.0	230.3	
2		184.0	146.3	
3		107.0	84.7	
1	5.00	289.0	230.3	
2		184.0	146.3	
3		107.0	84.7	
1	6.00	289.0		
2		184.0		
3		107.0		
1	7.00	289.0		
2		184.0		
3		107.0		

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	2.10	289.0	223.8	182.2
2		184.0	142.1	115.4
3		107.0	82.2	66.4
1	3.00	289.0	223.8	
2		184.0	142.1	
3		107.0	82.2	
1	4.00	289.0	223.8	
2		184.0	142.1	
3		107.0	82.2	
1	5.00	289.0		
2		184.0		
3		107.0		
1	6.00	289.0		
2		184.0		
3		107.0		

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	2.10	289.0	215.6
2		184.0	136.8
3		107.0	79.1
1	3.00	289.0	215.6
2		184.0	136.8
3		107.0	79.1
1	4.00	289.0	
2		184.0	
3		107.0	
1	5.00	289.0	
2		184.0	
3		107.0	

INTERPOLATION BETWEEN TABULATED VALUES PERMISSIBLE
SEE ALSO OPERATION AND MAINTENANCE MANUAL

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Project
DL-TLG1200
TELESCOPIC LIFTING GANTRY

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

Scales (At A3) AS SHOWN	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
Drawing Status INFORMATION		
Original Drawing size: A3		Rev.
Drawing No. DL-TLG1200-005-01		C

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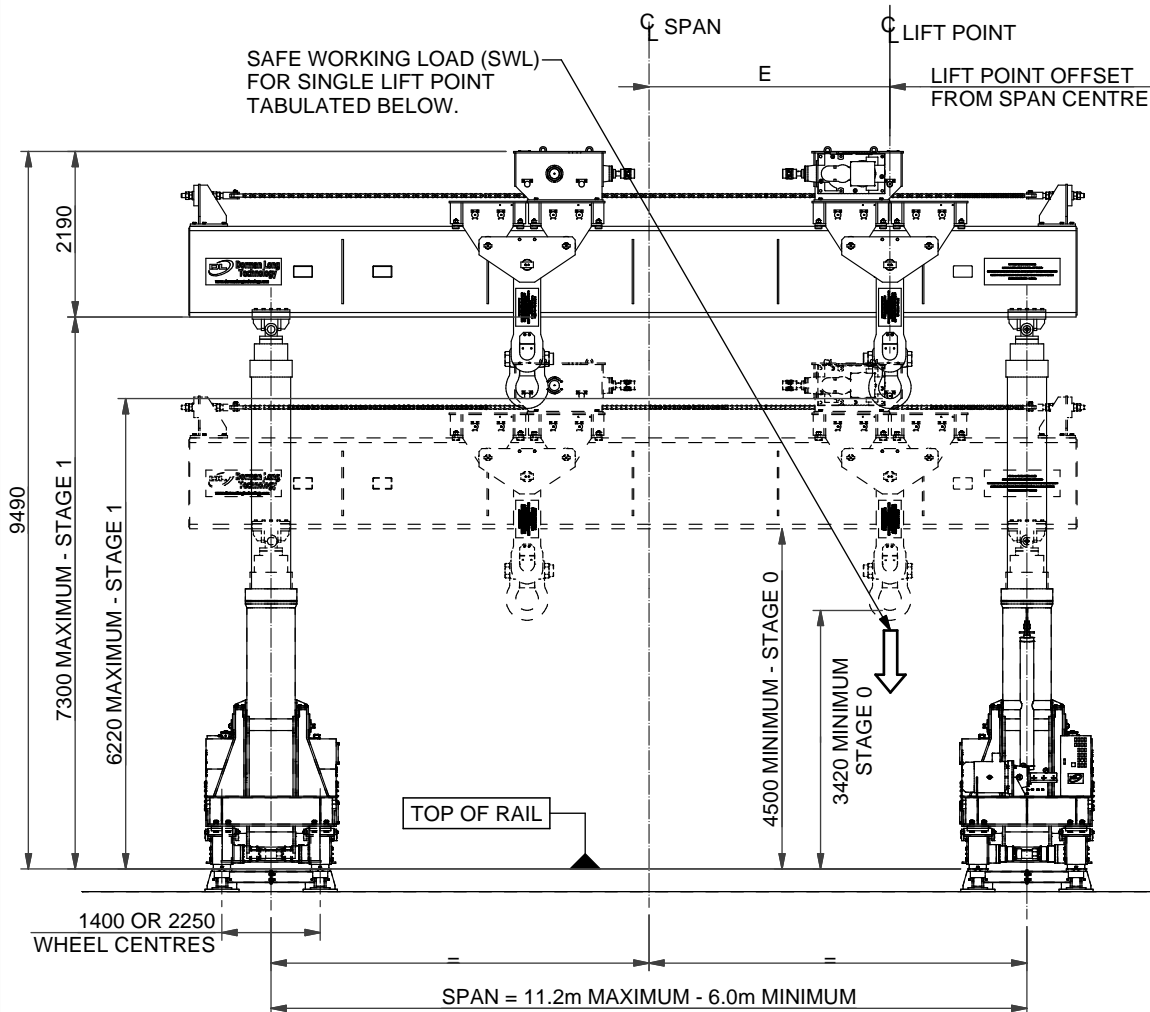
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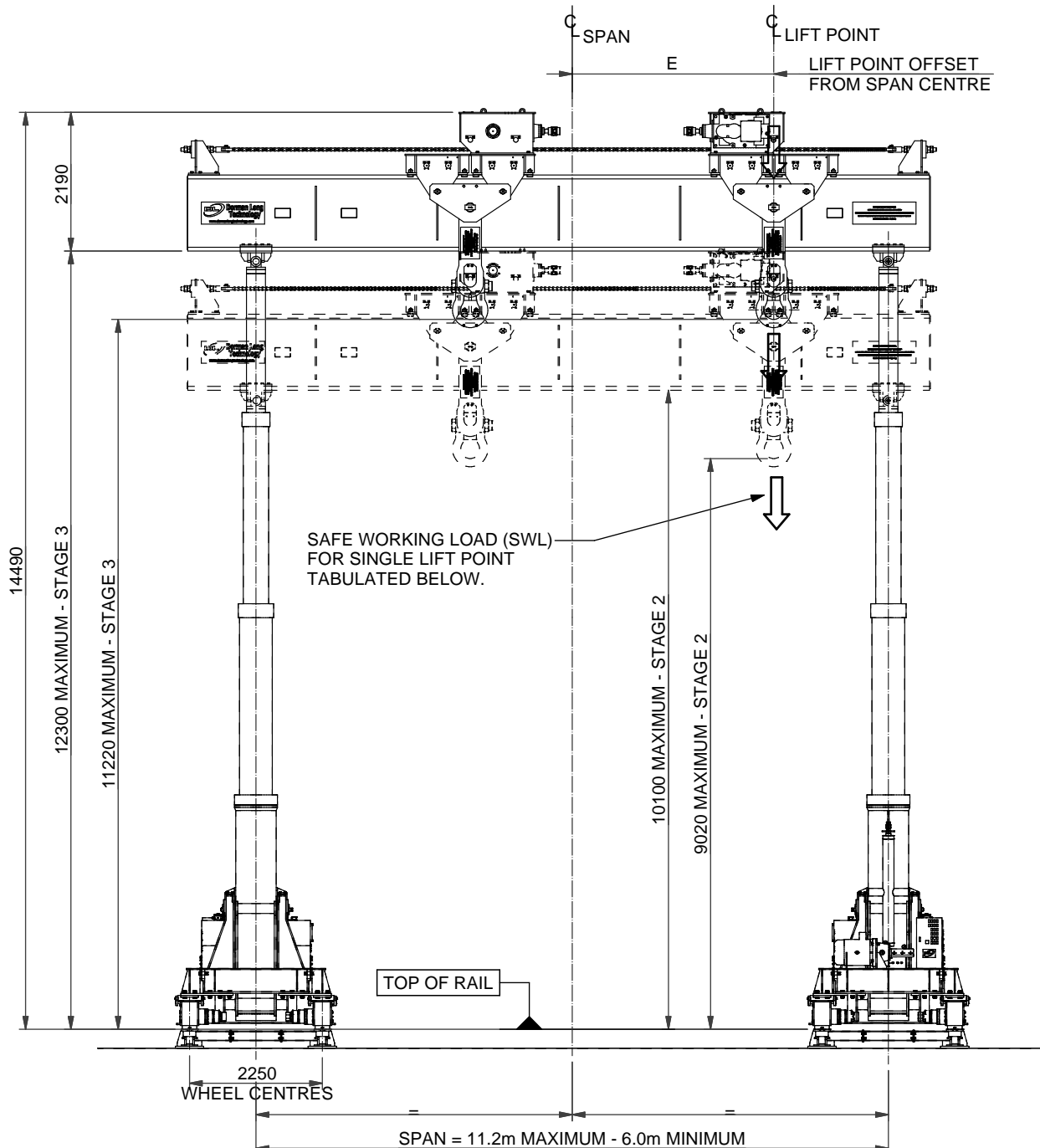
DUTY CHARTS ASSUME THE FOLLOWING:-

- STANDARD DL-TLG1200 COMPONENTS WITH DL-TLG1200 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-TLG1200 STANDARD TRACK SECTIONS USED WITH 1.4m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGE 1 AND 2.25m RAIL CENTRES FOR TELESCOPIC CYLINDER STAGES 2 AND 3
- TABULATED LOADS APPLIED TO SHACKLE OR, IF SHACKLE NOT USED, TO SHACKLE BEAM

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**STAGE 1 : HEAD BEAM IN OPERATIONAL RANGE
FROM LEVEL 4500 TO LEVEL 7300**



**STAGE 2 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 10100
STAGE 3 : HEAD BEAM IN OPERATIONAL RANGE TO LEVEL 12300**

SPAN 11.20m					
SAFE WORKING LOAD (SWL)					
PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	300.0	267.4	240.3	214.8
3	210.6	178.0	153.9	140.0	124.9

SPAN 10.00m					
SAFE WORKING LOAD (SWL)					
PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	300.0	258.8	230.7	204.5
3	210.3	174.4	148.8	134.4	118.9

SPAN 9.00m					
SAFE WORKING LOAD (SWL)					
PER LIFT POINT [TONNES]					
SINGLE LIFT POINT LOADED					
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE				
	0.00	1.00	2.00	3.00	4.00
1	300.0	300.0	300.0	300.0	300.0
2	300.0	296.8	250.4	221.5	194.9
3	209.9	170.8	143.8	129.1	113.3

SPAN 8.00m				
SAFE WORKING LOAD (SWL)				
PER LIFT POINT [TONNES]				
SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1	300.0	300.0	300.0	300.0
2	300.0	290.2	246.6	210.7
3	209.9	167.0	143.9	122.7

SPAN 7.00m				
SAFE WORKING LOAD (SWL)				
PER LIFT POINT [TONNES]				
SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	3.00
1	300.0	300.0	300.0	300.0
2	300.0	282.1	235.1	198.2
3	210.0	162.3	137.1	115.3

SPAN 6.00m				
SAFE WORKING LOAD (SWL)				
PER LIFT POINT [TONNES]				
SINGLE LIFT POINT LOADED				
STAGE	LIFT POINT OFFSET E [m] FROM SPAN CENTRE			
	0.00	1.00	2.00	
1	300.0	300.0	300.0	
2	300.0	277.9	221.3	
3	210.1	162.4	128.9	

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Project
**DL-TLG1200
TELESCOPIC LIFTING GANTRY**

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

	Design Eng: JM	Checking Eng: PD
	Drawn by: SG	Project Eng: SAB
Drawing Status INFORMATION		
Original Drawing size: A3		Rev.
Drawing No. DL-TLG1200-005-02		C