

PREMAY *Equipment* LTD.

&

STERLING CRANE

Premay: 11310-215 St. Edmonton, AB, T5S 2B5
PHONE: (780)447-5555; 1-800-661-9315 FAX: (780)447-3744

Sterling Crane: 2440 - 76 AVE. BOX 8610, STN SOUTH, Edmonton AB, T6E 6R2
PHONE (780) 440-4434 FAX (780) 440-1951

HIGHLIGHTS

STABILITY

Each trailer unit can be separated into 3 and 4 hydraulic fields. Each field can maintain hydraulic pressure to each axle in that field. This allows the trailer to adjust for uneven surfaces increasing stability of the loads.

LOADING CAPACITY

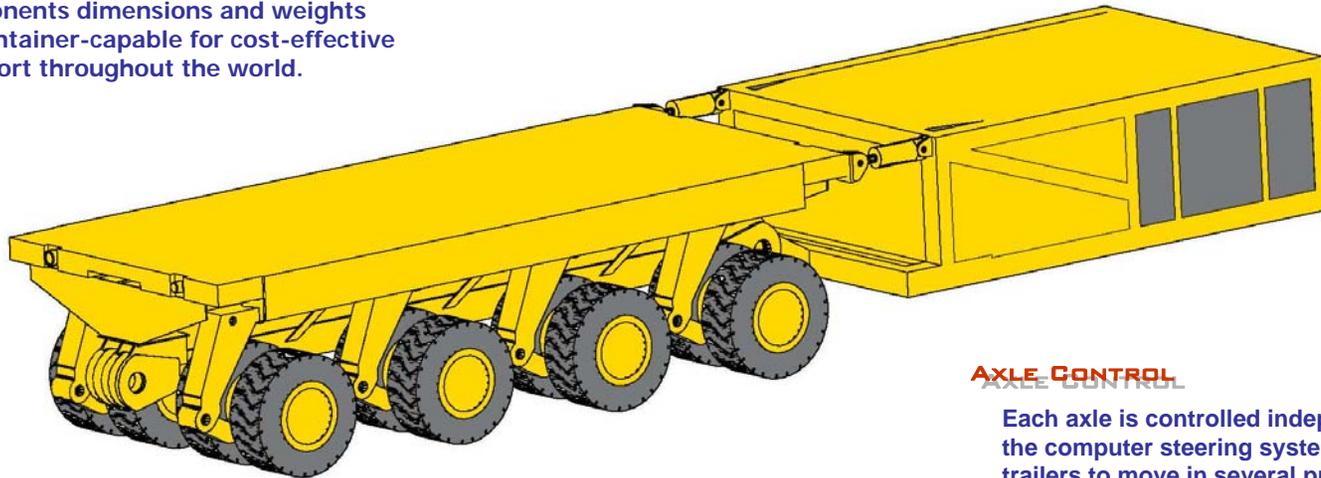
Platforms are torsion-free and bending resistant, designed for direct loading. Platform design and hydraulics allow for a maximum 40,000 kg per axle line.

POWER

Power Pack Units (PPU) provides power to the hydraulic systems controlling axle height, steering, braking as well as powering the electrical systems. Each Diesel engine (Z320) is rated at 350 kw.

TRANSPORT

Components dimensions and weights are container-capable for cost-effective transport throughout the world.



AXLE CONTROL

Each axle is controlled independently by the computer steering system allowing the trailers to move in several pre-programmed steering modes, or manual control modes. With this system trailers can be combined mechanically or separated, still acting as one unit. This allows for any conceivable steering movement. Trailer can also be raised or lowered up to 300mm. These functions are operated by a remote control unit.

AXLE TYPES

Self propelled modular trailers come in two types: 4 axle (PEKZ 140.8.4) and 6 axle (PEKZ 140.8.4). Axles consist of 3 types: propelled braked and free-wheeling.

CONFIGURATIONS

All trailers are completely modular, meaning they can be coupled together end to end or side by side to create many transport configurations.



- In 2003 Sterling Crane and Premay Equipment joined forces to form the “SPMT Alliance”.
- In order to provide a one-stop-shop lifting and transportation service to their clients. The two companies formed the “SPMT Alliance” and jointly purchased a set of Scheuerle self propelled modular transporters.
- The SPMT alliance can provide transportation services for oversize and overweight modules, vessels, equipment and machinery. With over 800 pieces of specialized equipment, off-highway vehicles, trailers and cranes, SPMT Alliance is the dominant leader in the specialized transportation and lifting market in Canada.

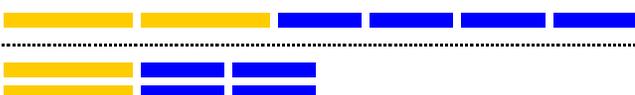
The competitive advantage of Sterling and Premay's alliance can be summarized as follows:

- Seamless transport and lifting service.
- SPMT Alliance can capitalize on the strong reputation Sterling and Premay has earned over the last 50 years.
- The equipment utilized by the SPMT Alliance is both very specialized and capital intensive.
- Multi-Wheel trailers to 96 wheels.
- 150+ additional trailers and decks.
- 108 lines of Scheuerle inter-combi.
- 36 lines of Scheuerle K100.
- Versatile Jack & Roll equipment.
- Lift & Lock jacking system.
- The most highly skilled and experienced workforce in the specialized transportation industry in Canada.
- The commitment to the implementation of new technologically advanced equipment and systems.

EQUIPMENT SPECIFICATIONS

MANUFACTURER:-	SCHEUERLE
TYPE:-	SELF PROPELLED MODULAR TRANSPORTERS
CAPACITY:-	44 TON PER AXLE LINE
CONFIGURATIONS:-	VARIOUS COMBINATIONS OF THE BELOW TRANSPORTS/POWER PACKS CREATING COMBINATIONS FROM 4 TO 36 AXLE LINES. TRANSPORTERS ARE COMPLETELY MODULAR, MEANING THEY CAN BE COUPLED TOGETHER END TO END, SIDE BY SIDE, OR RUN PHYSICALLY SEPRATE AND UNDER THE CONTROL OF A SINGLE COMPUTER SYSTEM.
AVAILABLE MODULES:-	SIX (6) - 4 AXLE LINE TRANSPORTERS TWO (2) - 6 AXLE LINE TRANSPORTERS TWO (2) - POWER PACK UNITS
MANEUVERABILITY:-	NORMAL DRIVE TRANSVERSE DRIVE DIAGONAL NORMAL DRIVE CIRCULAR DRIVE
PLATFORM:-	TORSION FREE AND BEND RESISTANT DESIGN FOR DIRECT LOADING

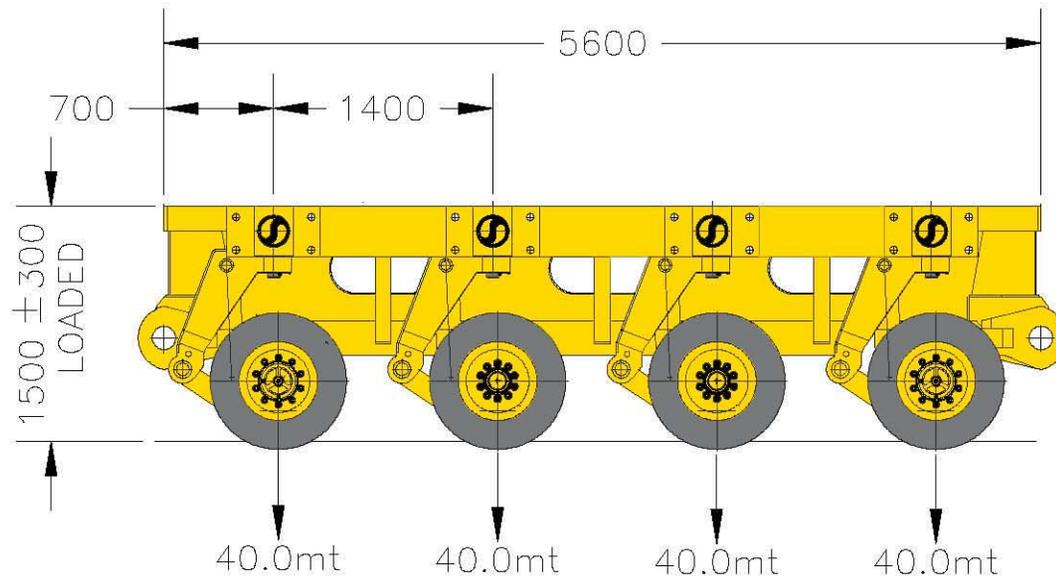
TECHNICAL DATA

Axle Lines	Combination	Total Weight	Maximum Payload	Tractive Force	Braking Force
4		16 t	143.5 t	240 kN	220 kN
6		24 t	216 t	240 kN	330 kN
8		32 t	287 t	480 kN	440 kN
10		40 t	359.5 t	480 kN	440 kN
12		48 t	432 t	480 kN	440 kN
14		56 t	503 t	720 kN	770 kN
16		64 t	575.5 t	720 kN	880 kN
18		72 t	646.5 t	960 kN	990 kN
20		80 t	719 t	960 kN	1100 kN
22		88 t	790 t	1200 kN	1210 kN
24		96 t	862.5 t	1200 kN	1320 kN
26		104 t	933.5 t	1440 kN	1430 kN
28		112 t	1006 t	1440 kN	1540 kN
30		120 t	1077 t	1680 kN	1650 kN
32		128 t	1149.5 t	1680 kN	1760 kN
36		144 t	1293 t	1920 kN	1980 kN

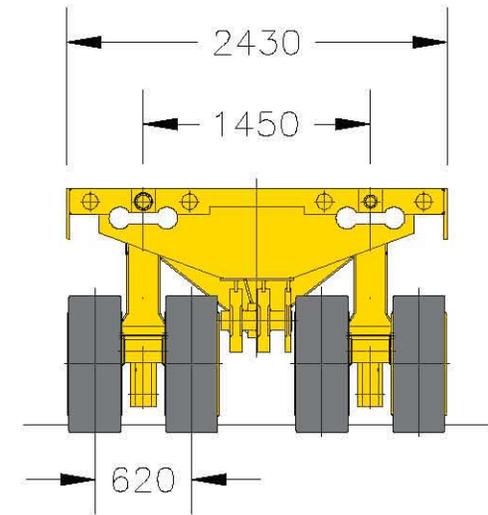
Data based on: speed of 1 km/hr, rolling resistance of 0.025 and acceleration 0.005 m/s²

4 Axle Module 

6 Axle Module 



SIDE VIEW
NOT TO SCALE

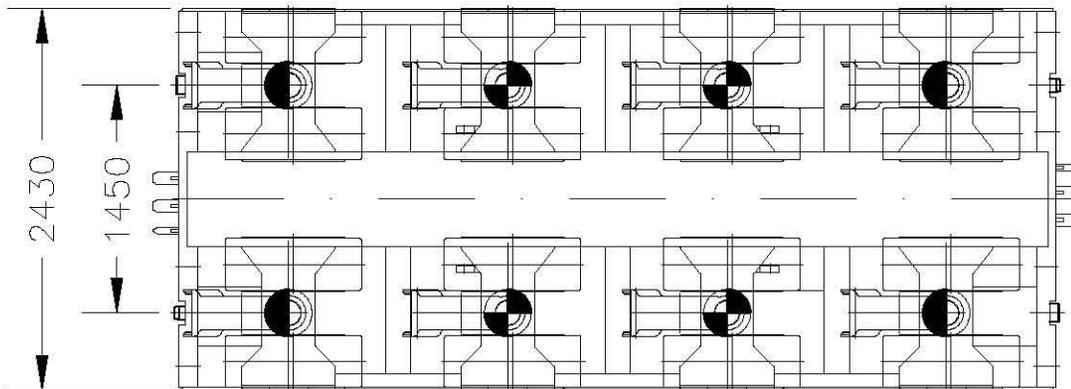


END VIEW
NOT TO SCALE

-  DRIVE PENDULUM AXLE
-  BRAKE PENDULUM AXLE

GENERAL NOTES:

1. CAPACITY SHOWN IS PER AXLE LINE AND IS MAXIMUM ALLOWABLE LOAD. SEE LOADING DIAGRAM FOR TRUE CAPACITY.
2. DEAD WEIGHT OF 4-AXLE UNIT APPROX. 16.5mt EACH.
3. FOR COMPLETE DETAILS SEE SCHEUERLE OPERATORS MANUAL.



TOP VIEW
NOT TO SCALE

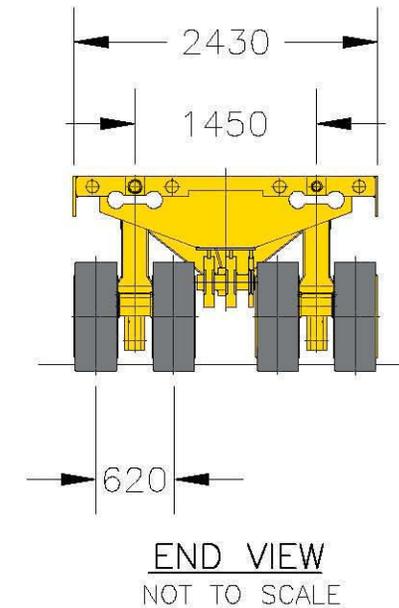
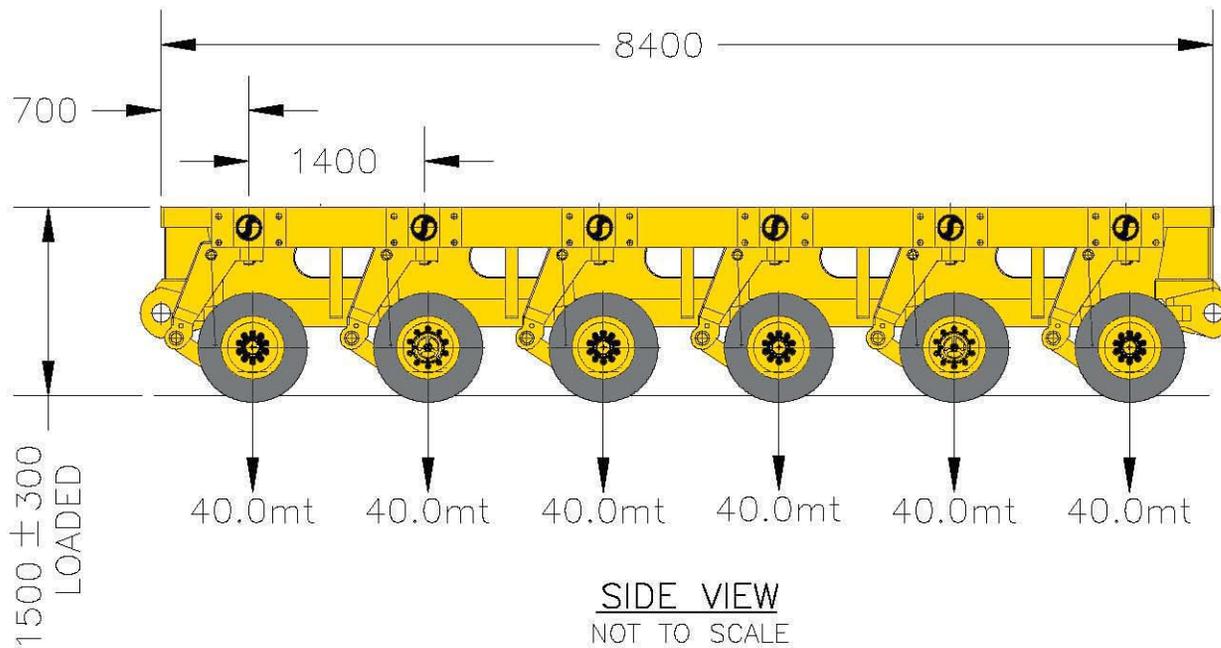
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A	30/APR/04	PRELIMINARY ISSUE FOR REVIEW AND COMMENTS	JM	BG	
Rev.	Date	Description of Revision	Made by	Checked	Approved
Drawn	Date	Job			
J. MADSEN	30/APR/04				
Client SPMT ALLIANCE					
Project					
Drawing Title SELF PROPELLED MODULAR TRAILERS TECHNICAL DATA - 4 AXLE UNIT					

PROCRANE ENGINEERING



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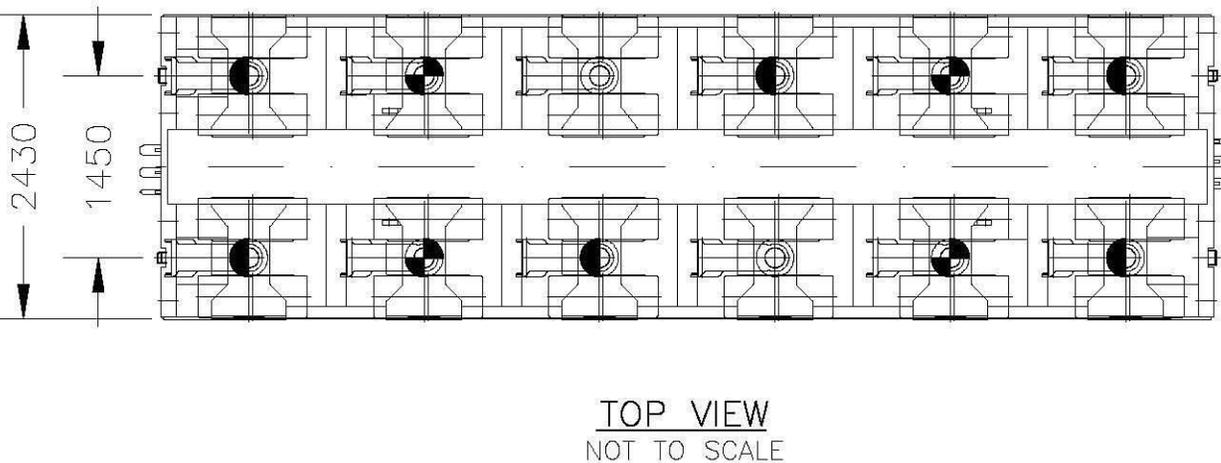
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Sheet 1 of 4	Drawing No. 90-04JM04-SPEC



- DRIVE PENDULUM AXLE
- BRAKE PENDULUM AXLE
- RUNNING PENDULUM AXLE

GENERAL NOTES:

1. CAPACITY SHOWN IS PER AXLE LINE AND IS MAXIMUM ALLOWABLE LOAD. SEE LOADING DIAGRAM FOR TRUE CAPACITY.
2. DEAD WEIGHT OF 6-AXLE TRAILER APPROX. 24.0mt EACH.
3. FOR COMPLETE DETAILS SEE SCHEUERLE OPERATORS MANUAL.



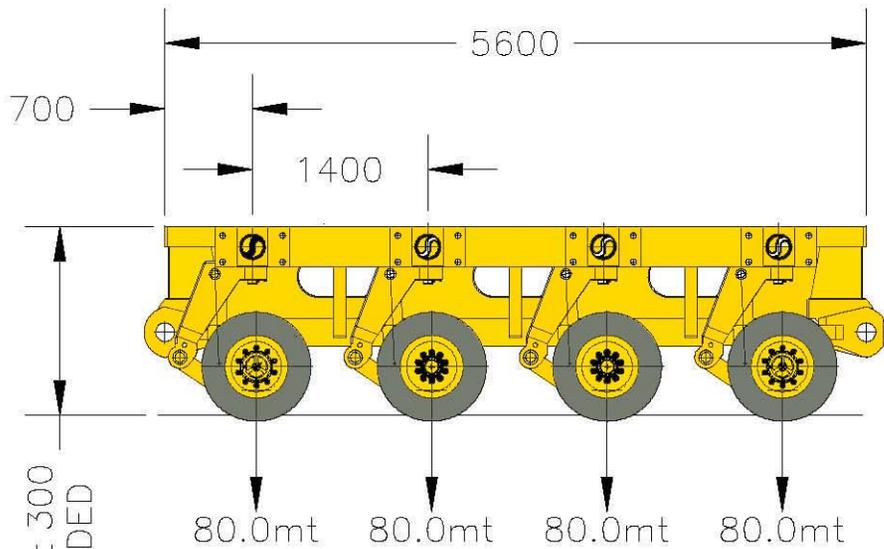
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PROCRANE ENGINEERING

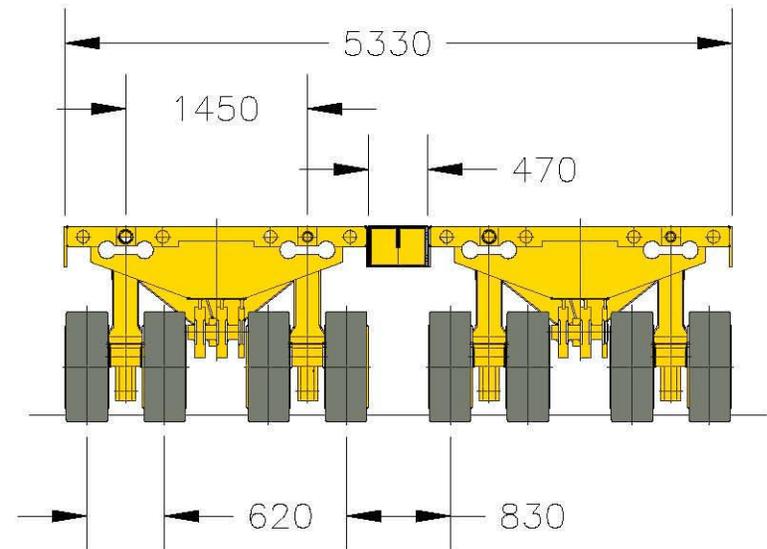


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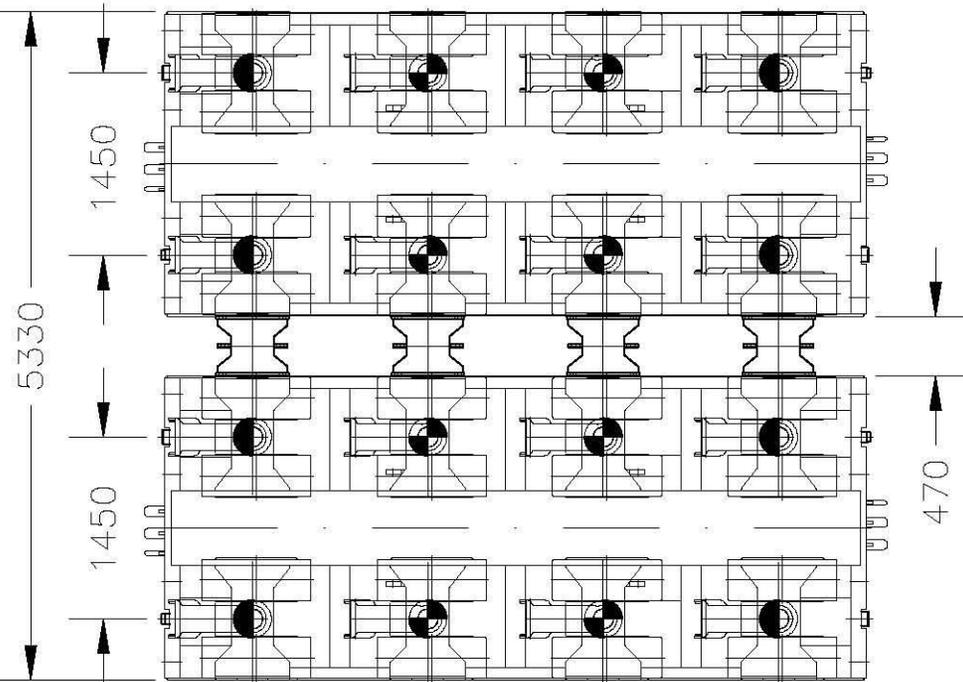
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SIDE VIEW
NOT TO SCALE



END VIEW
NOT TO SCALE



TOP VIEW
NOT TO SCALE

- DRIVE PENDULUM AXLE
- BRAKE PENDULUM AXLE
- RUNNING PENDULUM AXLE

GENERAL NOTES:

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Client
SPMT ALLIANCE

Project

Drawing Title

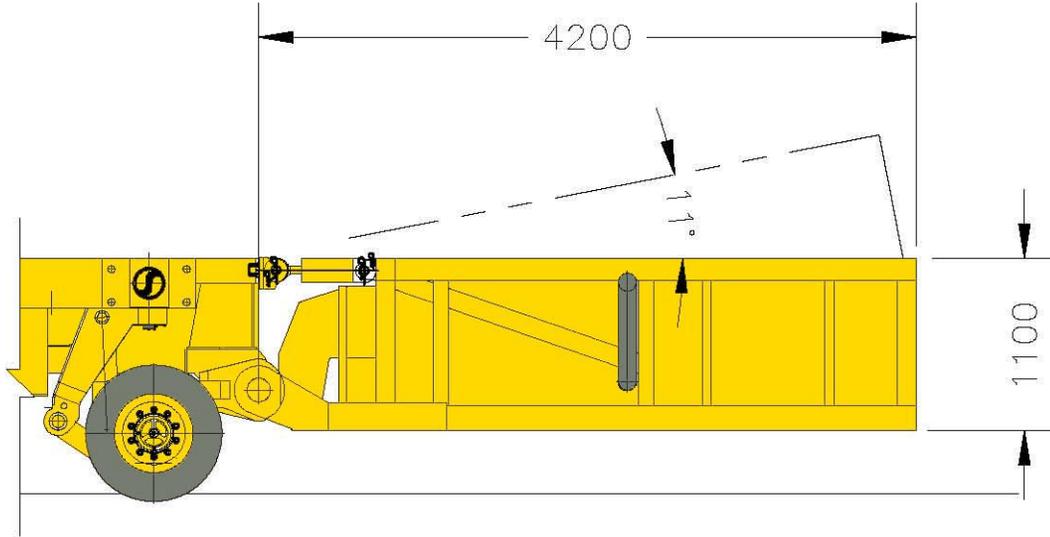
SELF PROPELLED MODULAR TRAILERS
TECHNICAL DATA - 4 AXLE DOUBLE WIDE CONFIGURATION

PROCRANE ENGINEERING

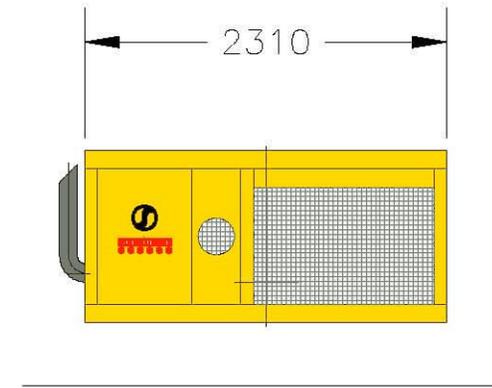


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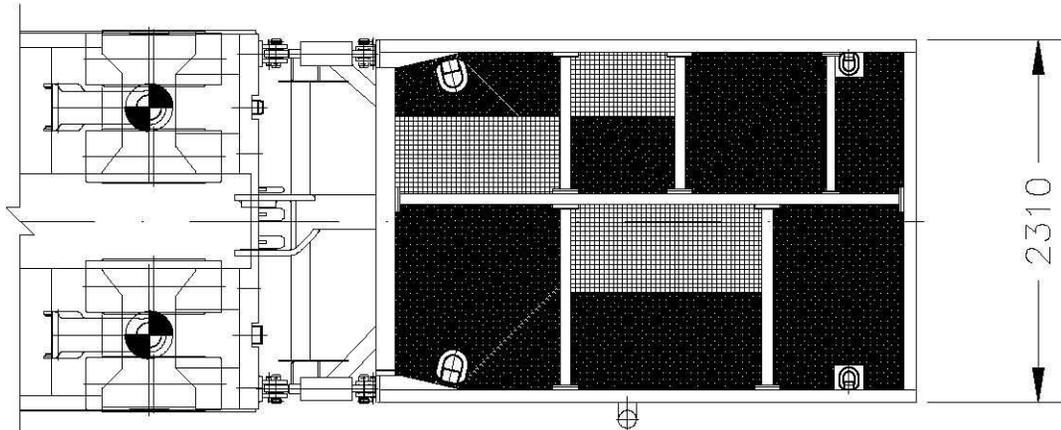
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SIDE VIEW
NOT TO SCALE



END VIEW
NOT TO SCALE



TOP VIEW
NOT TO SCALE

GENERAL NOTES:

1. DEAD WEIGHT OF PPU UNIT APPROX. 7.5mt EACH.
2. FOR COMPLETE DETAILS SEE SCHEUERLE OPERATORS MANUAL.

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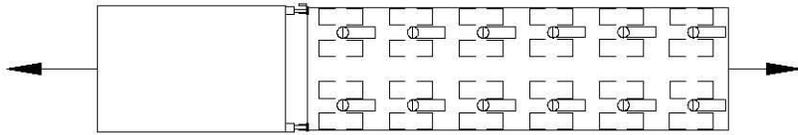
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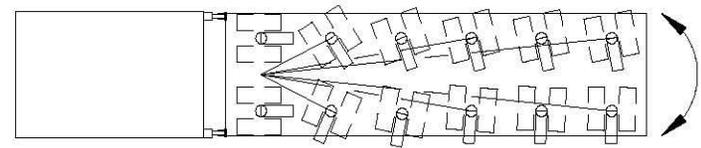
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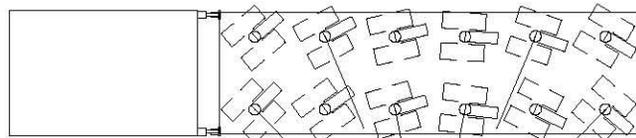
NORMAL DRIVE MODES



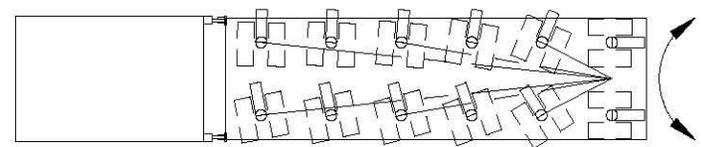
BASIC POSITION
FORWARD AND REVERSE MOVEMENT.



REAR
CENTER OF STEERING POINT AT THE CENTER OF REAR AXLES.

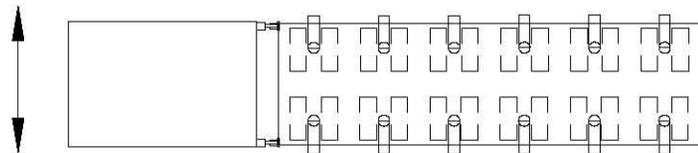


LEFT CURVE - RIGHT CURVE
CENTER OF STEERING POINT OUTSIDE THE TRAILER.

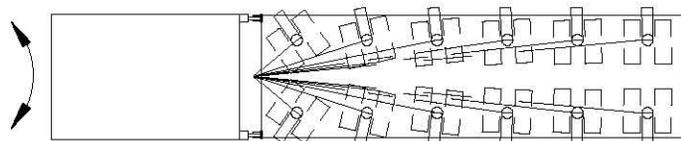


FRONT
CENTER OF STEERING POINT AT THE CENTER OF FRONT AXLES.

TRANSVERSE DRIVE

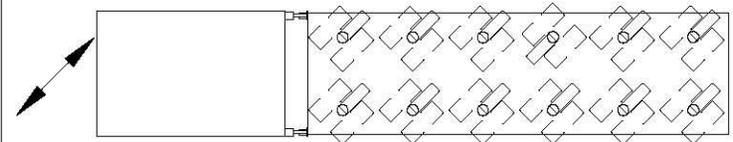


LEFT MOVEMENT - RIGHT MOVEMENT
ALL PENDULUM AXLES TURN TOWARD THE TRANSVERSE DIRECTION



LEFT MOVEMENT - RIGHT MOVEMENT
PENDULUM AXLES TURN TO PIVOT AROUND A POINT OUTSIDE THE LATITUDINAL END OF THE TRAILER. MOVEMENT IS LIMITED TO $\pm 40^\circ$

DIAGONAL NORMAL DRIVE



LEFT MOVEMENT - RIGHT MOVEMENT
PARALLEL STROKE OF ALL PENDULUM AXLES.
MAXIMUM $\pm 130^\circ$ FROM BASIC POSITION.

GENERAL NOTES:

1. THE TRANSPORT MANOEUVRABILITY IS REPRESENTED BY A SIX AXLE TRAILER WITH POWER PACK. NOTE, THE STEERING PROGRAMS ARE POSSIBLE WITH ALL TRANSPORT CONFIGURATIONS.
2. FOR COMPLETE DETAILS SEE SCHEUERLE OPERATORS MANUAL.

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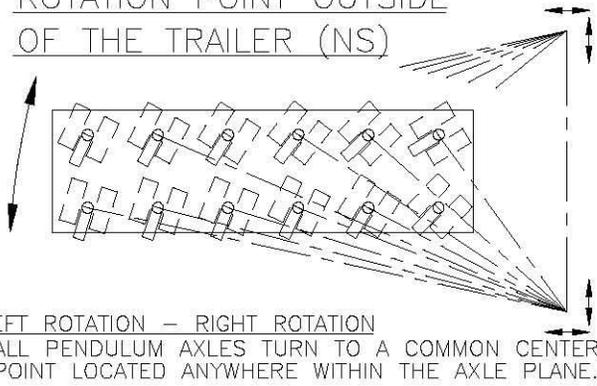


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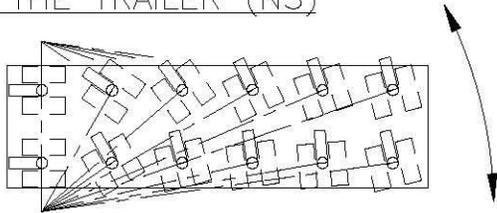
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NORMAL STEER WITH PROGRAMMED COORDINATES (NS)

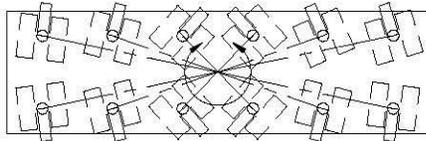
ROTATION POINT OUTSIDE OF THE TRAILER (NS)



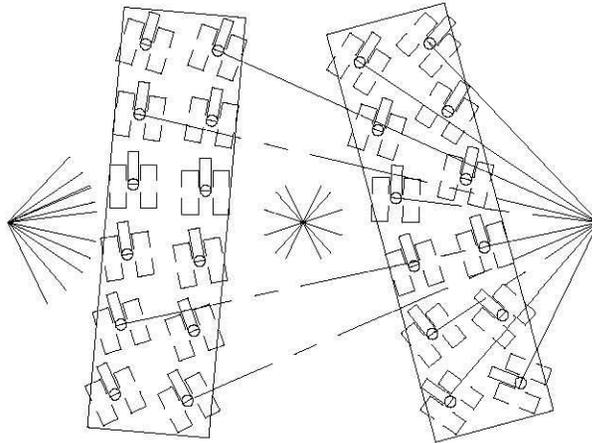
ROTATION POINT OUTSIDE OF THE TRAILER (NS)



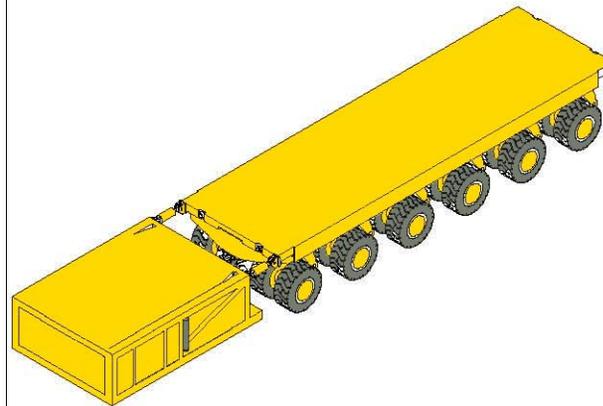
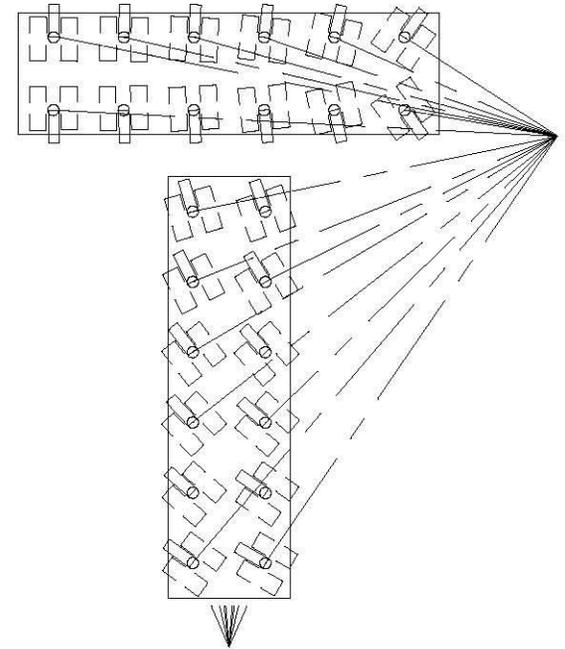
CIRCULAR DRIVE



V-COMBINATION (NS)



T-COMBINATION (NS)



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- SELF PROPELLED MODULAR TRANSPORTER



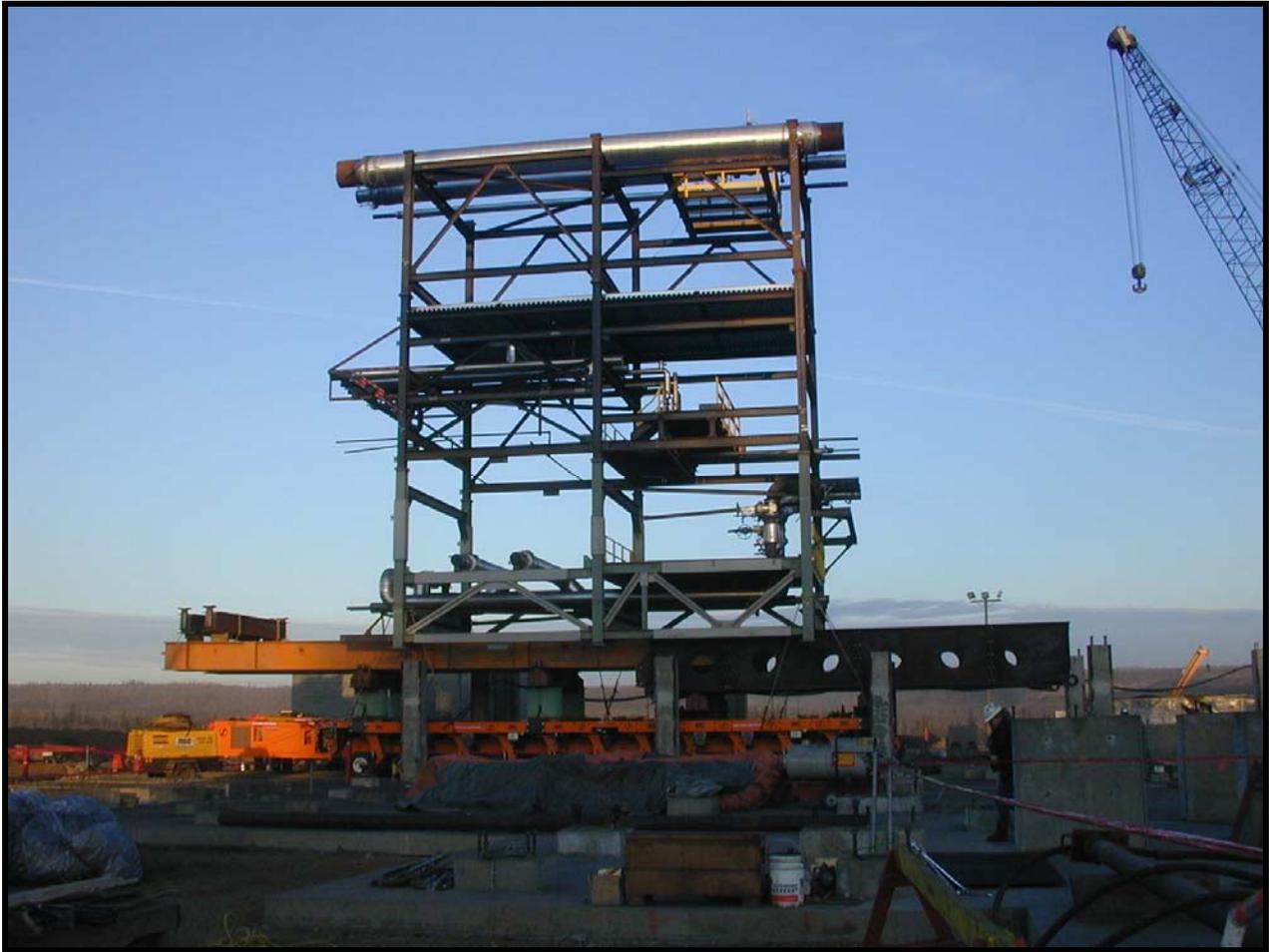
- SELF PROPELLED MODULAR TRANSPORTER



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