

DATA SHEET ON PACIFIC SLEEPER 2000	
Name of Supplier	<i>Georg Eknes Industrier AS</i>
Short description of Supplier's company	G. Eknes Industrier AS (GEI) established in 1952 is a top quality manufacturer of passenger seats for the maritime industry. GEI has solid in-house technical competence, broad material- and production technique knowledge. We work with designers that have professional competence with 3D tools which enables us to develop and design unique passenger seats in accordance with client requirements. GEI have 1 company, 5000m ² and 18 employees. Assembly of the seat take place in house GEI.
Main customer clientel	<i>Ship-owners, shipyards and some deliveries to trains.</i>
Experience with delivering sleeping/reclining seats	<i>We have 4 types of sleeper seats, but only 1 that is a full flat sleeper seat, this is the Pacific Sleeper Train2000.</i>
Contact information of supplier	<i>Janne Eknes – janne.eknes@eknes.no - 95707068</i>
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Video:	https://www.youtube.com/watch?v=s8q6sxoq4xA



PASSENGER SEAT MODEL NAME: PACIFIC SLEEPER MARINE 2000		
1.1	Seat functions	Seamless movement from day position all the way down to a fully flat bed. Seatback, seat pan and legrest are connected to each other by a refined electrical power assistance mechanism uniquely designed for the seat. Pod seat are delivered with adjustable LED light with remote control integrated in armrest to adjust seat angle and to operate the light. LCD Screen with a complete entertainment system can be delivered as an optional extra. All electrical connections are "Plug and play". Standard seat is delivered with ACV220 outlets and DCV5, 2A USB charger. All seats can be connected to a main switch so that all seats moves' back to day position when passengers have left the vessel.
1.2	Available colours	Colours are optional, customers choice
1.3	Upholstery material	Genuine leather, artificial leather and/or fabric. MED certificated materials
1.4	Leg support	The legrest, seatpan and seatback are adjustable and obtained by a refined power assisted mechanism, uniquely designed for this seat. All is controlled from control panel in armrest.
1.5	Seatback angels: - In an upright position - Fully reclined position	In upright position you start with 20-23°, which also can be adjusted and reclined down to complete flatbed (90°) Between 20 – and 90° you have seamless movement. This is possible by mechanical system combined with 2 electrical motors run by a special developed software.
1.6	How to operate the different seat angels setting:	By only pushing or pressing 2 Push buttons on a remote control the seat angels can be adjusted. The push buttons have symbols with white backlight.
1.7	Seat weight	Complete seat with POD is 109 kilo.
1.8	Seat dimensions	Seat dimensions is provided in separate dwg and pdf drawing
2	Layout options	We have complete 3D files of the PSM2000
3	To what degree can the company assist in the process of installing the seats?	Normally the customer installs the seats. All installation towards the floor, 4 or 6 M8 screws. We recommend that GEI deliver a complete drilling pattern and also deliver sockets to be connected to train power outlet and that the cables are positioned where the seat are going to be installed.
4	Installations -time required	If No 3 is performed correctly, you need 15 minutes to do a complete installation after the seat has been positioned on the floor.

5	Maintenance procedure	<p>In addition to the normal cleaning procedure of a seat in marine vessels you need to clean slide system once a year and we recommend lubricating some mechanical parts.</p> <p>We deliver software with a service mode which by pushing a combination of buttons and holding them down for 5 sec.+ gives you access to areas below and behind the seat necessary to do maintenance work. After entering service mode you can move the seat horizontal without reclining the seat and you can also choose to only recline the seat or a combination of both.</p> <p>This gives you access to the mechanism for maintenance. If a passenger should, by accident drop some items behind the back of the seat, trained service personal can easily move the whole seat 530mm in forward direction for easy access all the way down to the floor.</p>
5.1	Spare part costs	<p>The most expensive parts will be:</p> <ol style="list-style-type: none"> 1. Horizontal linear actuator. 2. Recline linear actuator. 3. Software
5.2	Lifespan	<p>Expected life span of a seat with normal wear and tear would for the Mechanical Parts be approximately 20 years+</p> <p>The seat have been test run with repetition test of 30 000 cycles+.</p>
5.3	Warranty guarantee	12 months
5.4	Normal lead time	Approximately 6. months depending on available production capacity
6	Transportation and packaging	<p>This is a volume consuming product, 1 seat per 1 euro pallet.</p> <p>It is important that we can load a fully loaded semi-trailer to save transportation cost or use container for oversea deliveries.</p>
7	Price	Please contact us for a quote.
8	Market interest	<p>GEI delivered the PSM2000 for the first time in 2019 and it has been an absolute success.</p> <p>We have a lot of enquires for these seats and we are looking in to the possibility of introducing these seats for the train industry. Only difference will be the pod design.</p>
9	Competitors	<p>As far as we know we have only seen these types of seats in business Class and First Class seat for aircrafts. The price level for these airplane seats are 3 times higher and more, then what we are offering.</p>