



NODIN AVIATION AS

YOUR NEEDS - OUR KNOWLEDGE - EQUALS INNOVATION



Casualty and Medical evacuation and treatment facilities.

Air, Land and Sea.

General Presentation

NODIN - Norwegian Development and Innovation



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Air, Sea and Land Capacities





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Stretcher Rack System for Troop Seat integration

- Installed in Sea King Rescue helicopters :
 - pre-mounted fastening points
 - increases the capacity from 4 to 8 stretcher patients.
 - eliminates scramble time. Previous 20-25 minutes to remove seats and install stretcher rack, can now be done in transit – without tooling.
 - troop seats intact.



NT-561 installed in Sea King
Rescue helicopter



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Shock and vibration damped stretcher rack

- With preinstalled anchoring points; the system can be operational, and three patients loaded, within 2 minutes from scramble. No tooling needed.
- Reducing vibration and shock to a pleasant/acceptable level
- Can easily be modified for other vessels, vehicles and AC.
- Link to demonstration film:

http://www.medevac.no/pages/nt620_film.html



NT-620 installed in Norwegian SB90N
operated by the Coastal Rangers



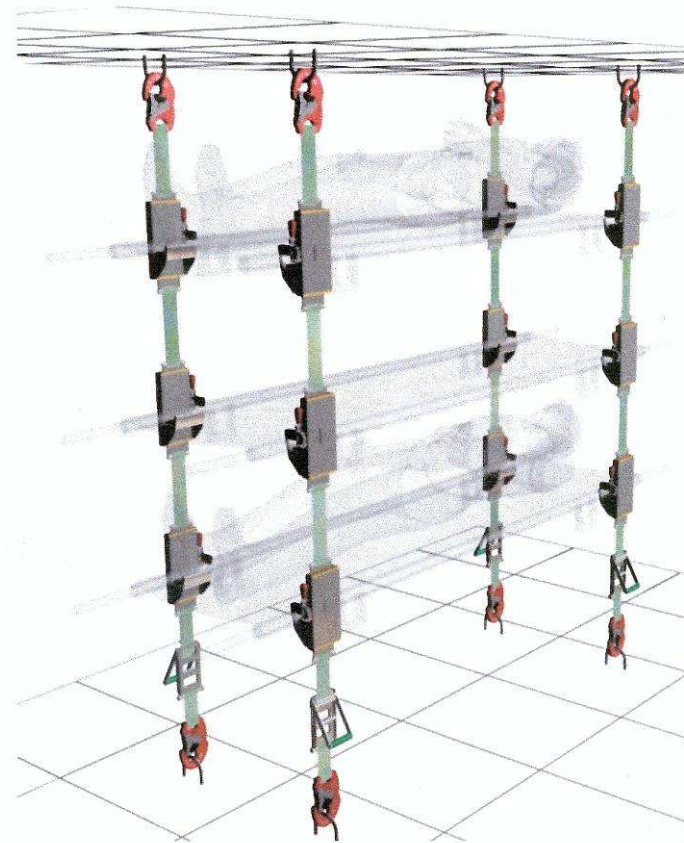
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Shock and vibration damped Stretcher Rack

- NT-620, patented solution.
- Individually damped.
- Modular system, 1 or multiple stretcher positions.
- Role equipment, erected when needed.
- All components in stainless steel or non corrosive material.
- Approx 12 kg per litter- position (three tier – total weight of 32 kg).
- Shock dampening effect has been simulated: input 440g at 0,31msec, residual shock 3,9g.





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Vibration and shock damped surgical work station

- Shock and vibration damped litter/table support, NT-630.
- Reduces shock and vibrations in all directions (spherical dampening).
- Based on NT-620 patent.



NT-630 installed in Norwegian Battle boat.



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New! MEDEVAC Stretcher

- Design and tested iaw Stanag 2040 and 3204
- Integrated quick release 5+2 point Harness
- 4 folded with telescopic handles
- Low weight and low volume
- IV pole attachment
- Options:
 - 0, 30 and 45 degree Adjustable Back Rest





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Stretcher Support System for Seat Rail integration

- Mass Evacuation Capacity.
- Two stretcher patients pr rack.
- Light weight, small storage volume.
- Rapid installment in A/C, 2 minutes pr unit.
- Up to 24 stretcher patients pr flight, Boeing 737-700.
- Can be palletized.



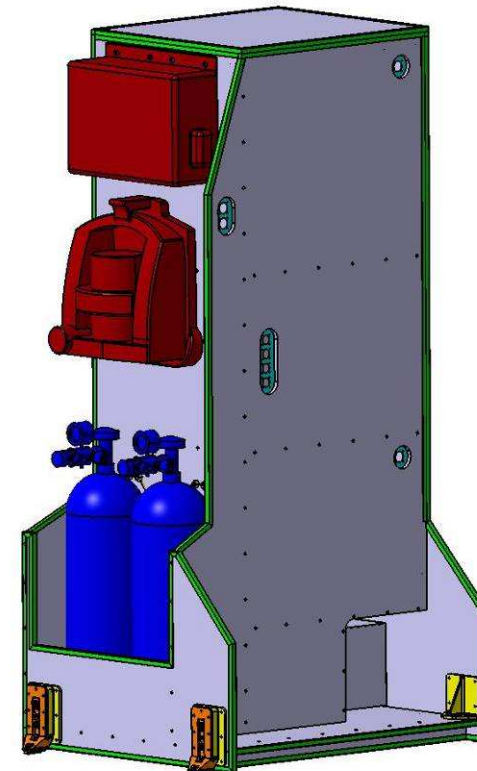
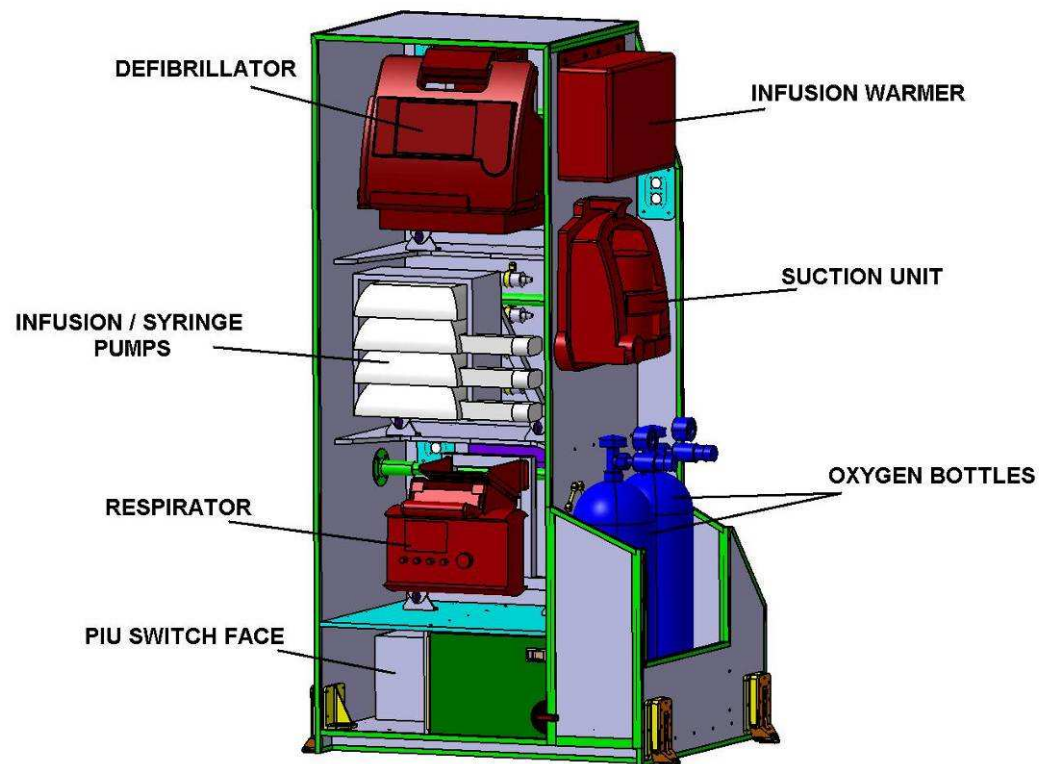


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Aerial MEDEVAC Electro Medical Rack



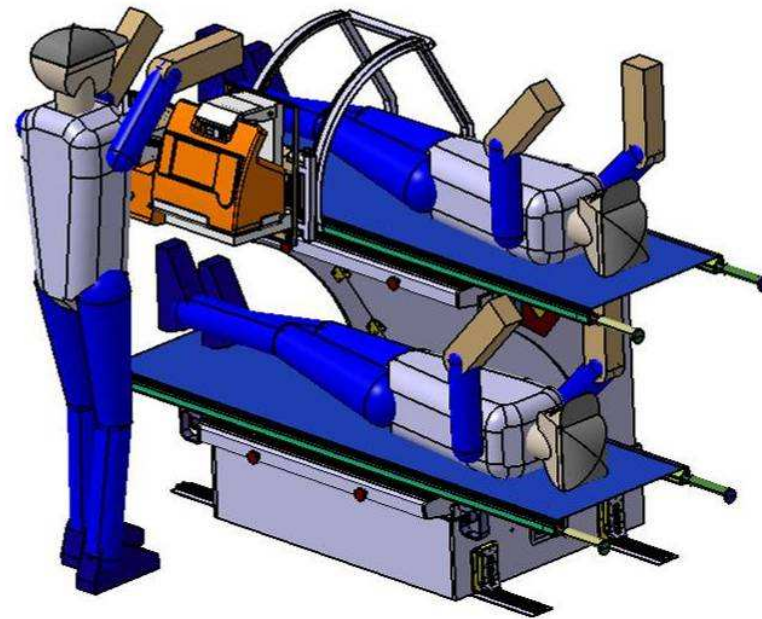
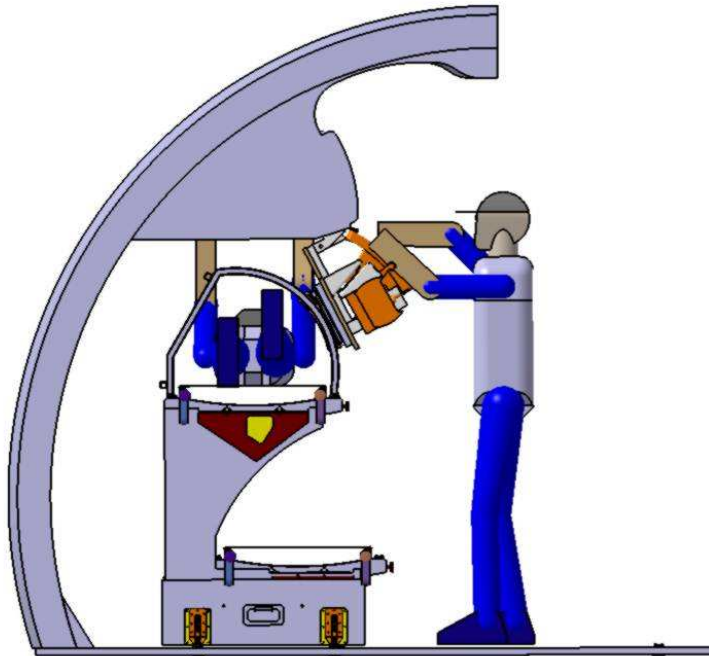


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Stretcher Rack with Electro Medical Equipment





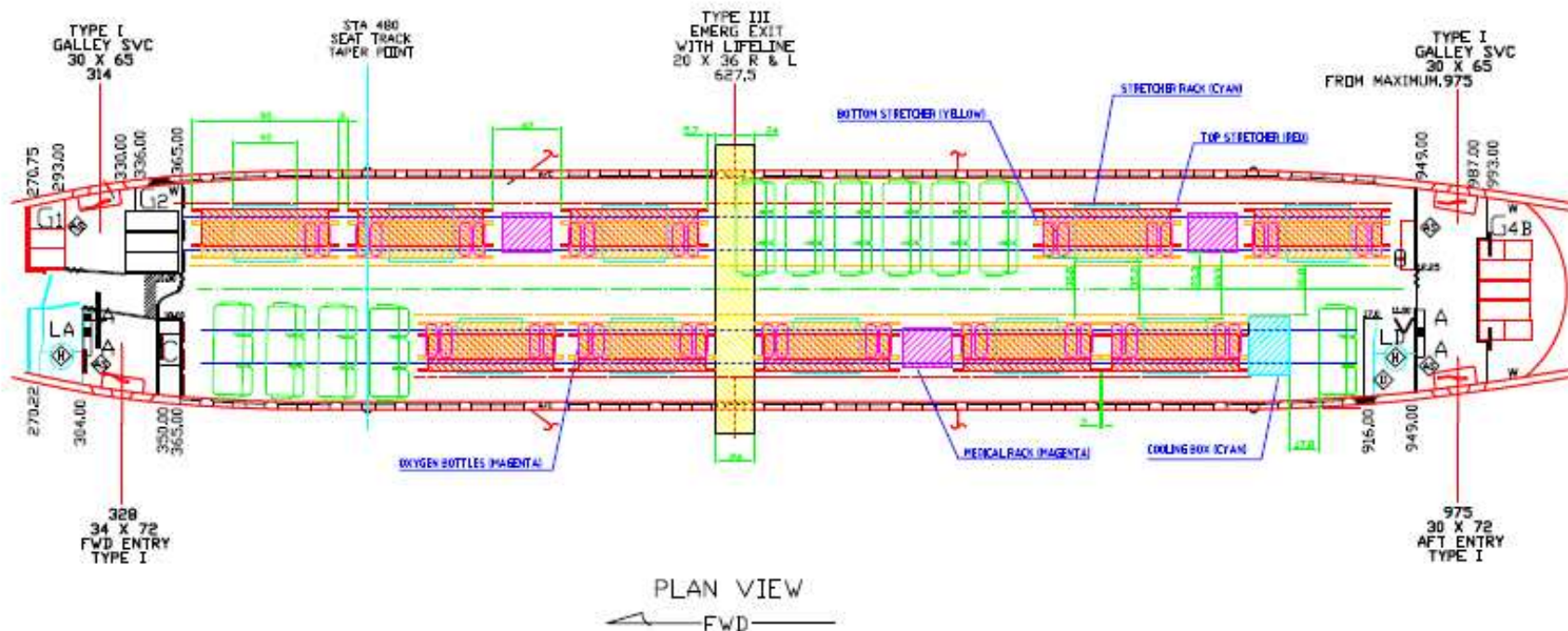
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Example of A/C layout B-737

OPTION 8A
10 SSR – 3 EMR – 33 SEATS – 1 COOLING BOX





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Patient Transport Support System MEDEVAC and inter-hospital transfer.

- Suspended in standard A/C Stretcher Supports.
- Designed iaw Stanag 2040 and Stanag 3204.
- Additional payload:
 - 60 kg of medical, electro medical equipment.
 - Including Oxygen Bottles in defined Cribs.
- Optional with extendable undercarriage





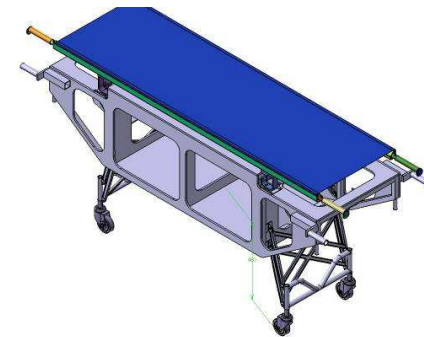
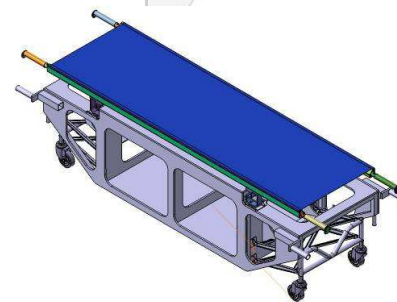
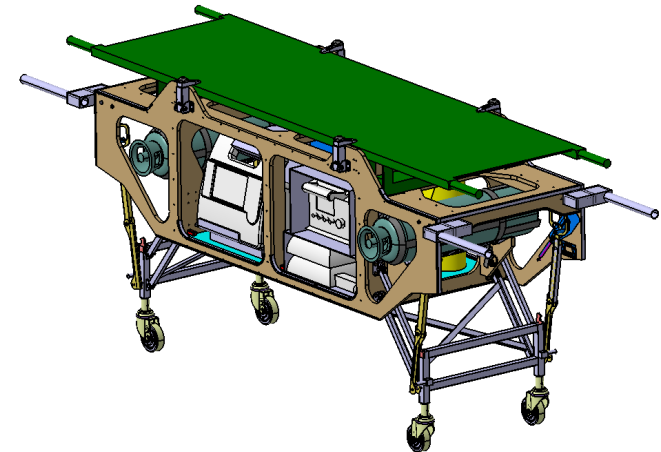
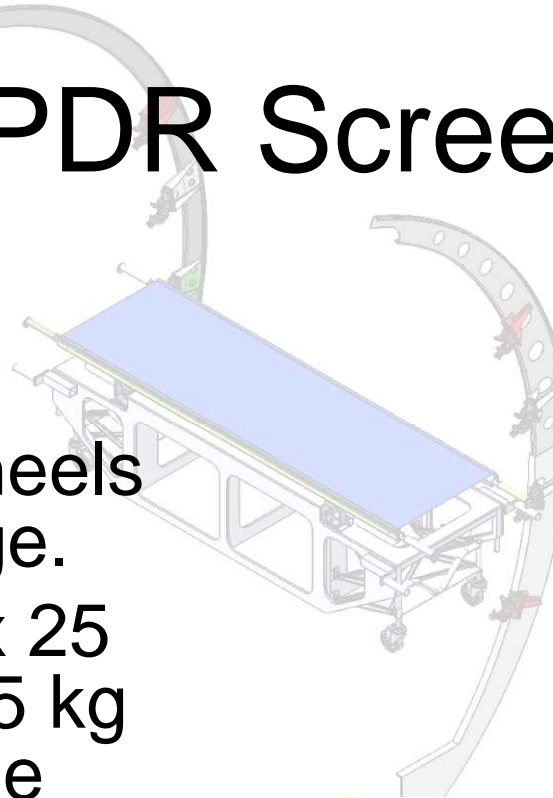
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PTSS PDR Screen Shots

- Optional with extendable wheels – undercarriage.
- Weight approx 25 kg, additional 5 kg with extendable wheels.
- Minimum ground-clearance of 75mm.





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CASEVAC Kit

- 4 folded Medevac Stretcher
- Vibration and shock dampened stretcher support system
- Storage-volume: approx 0,027m³ (1 cu ft)
- Weight: ~15 kg (33 lbs)





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CASEVAC

Multi role vehicles and vessels

- Decreasing response time and increasing capacity.
- Enabling troop/cargo transport vehicles and vessels to be converted into CASEVAC units in matter of minutes.
- Acknowledging the “Golden Hour”.
(Getting treatment within one hour after a serious wound/trauma increases the survivability significantly)





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CASEVAC/MEDEVAC

- Critical factors:
 - Time,
 - reduce waiting time
 - reduce time to load and unload
 - Inter-operational equipment,
 - same equipment on multiple platforms
 - reduce the need for transferring patients between stretchers
 - Safe and comfortable transport,
 - using shock and vibration damping techniques to avoid inflicting further pain and complications to the patient





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Development projects

We focus on assisting our customers creating/keeping a strong medevac chain:

- reducing the reaction time
- increasing the capacity and consequently the survivability of mass casualties in MEDEVAC/CASEVAC operations.





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Development projects

- Nodin Aviation is constantly working with developing innovative solutions. Most projects are initiated by customers but we do also have internally defined projects.





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NODIN – Innovative MEDEVAC solutions

- Together with our customers and project-defined suppliers/partners we dedicate our selves to find the best possible solution to our customers need of CASEVAC / MEDEVAC equipment or concepts.
- Our company motto; Your needs - our knowledge – equals innovation.



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