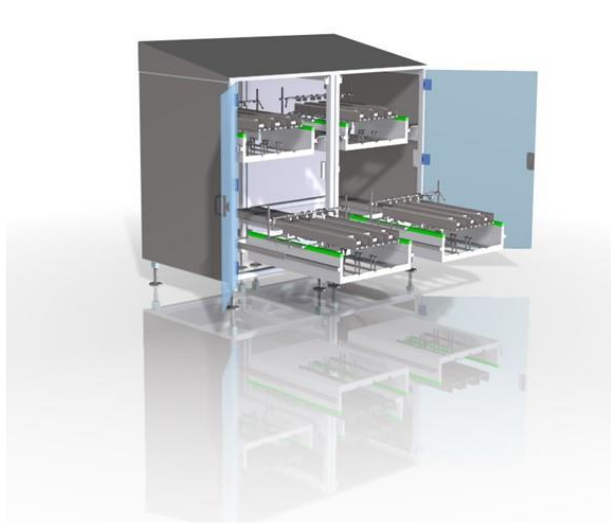
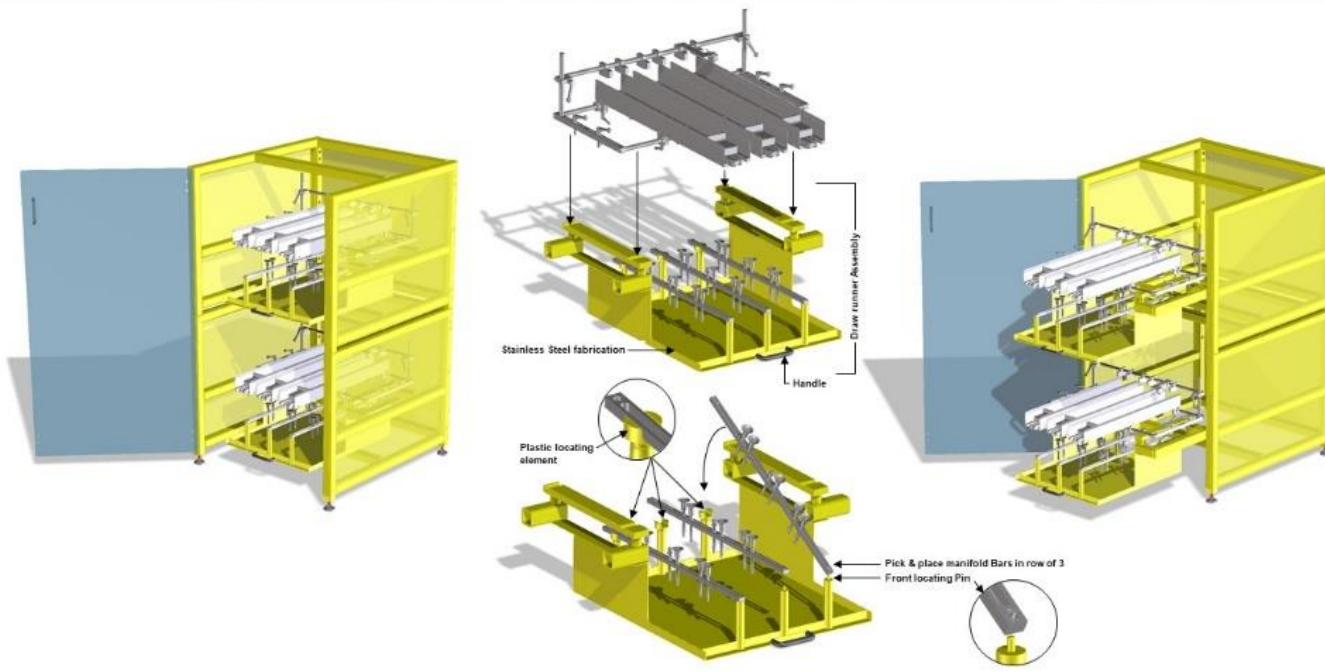
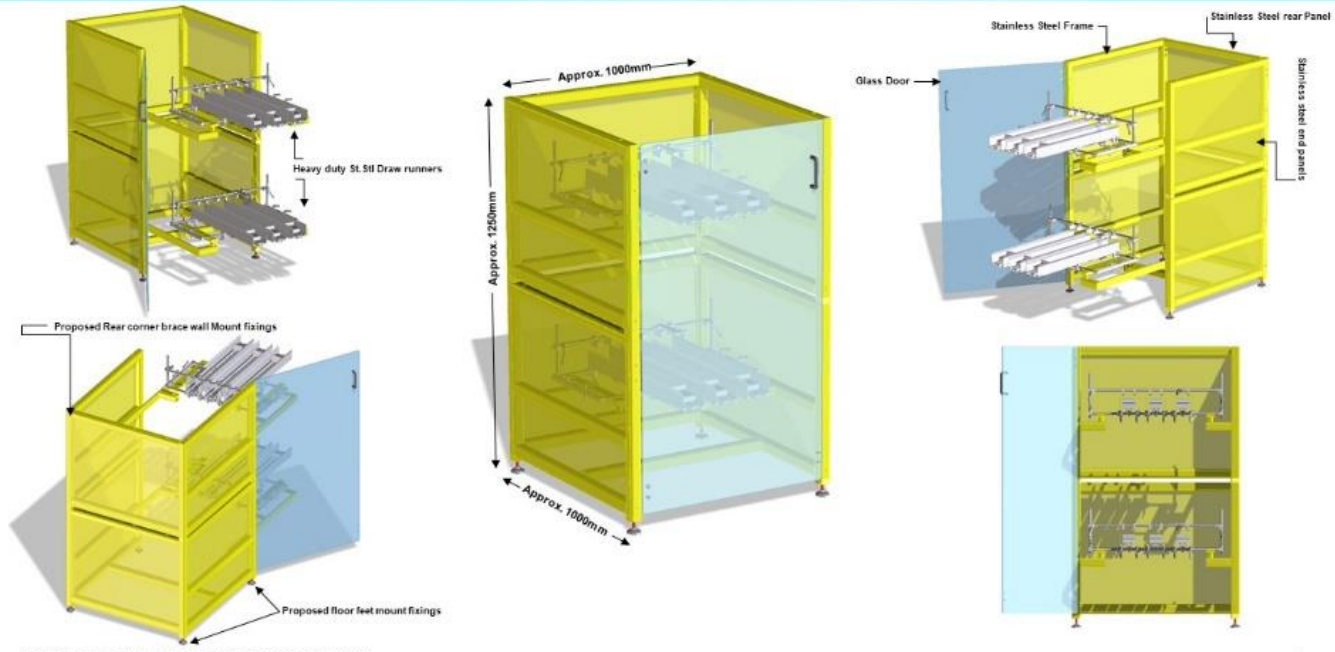


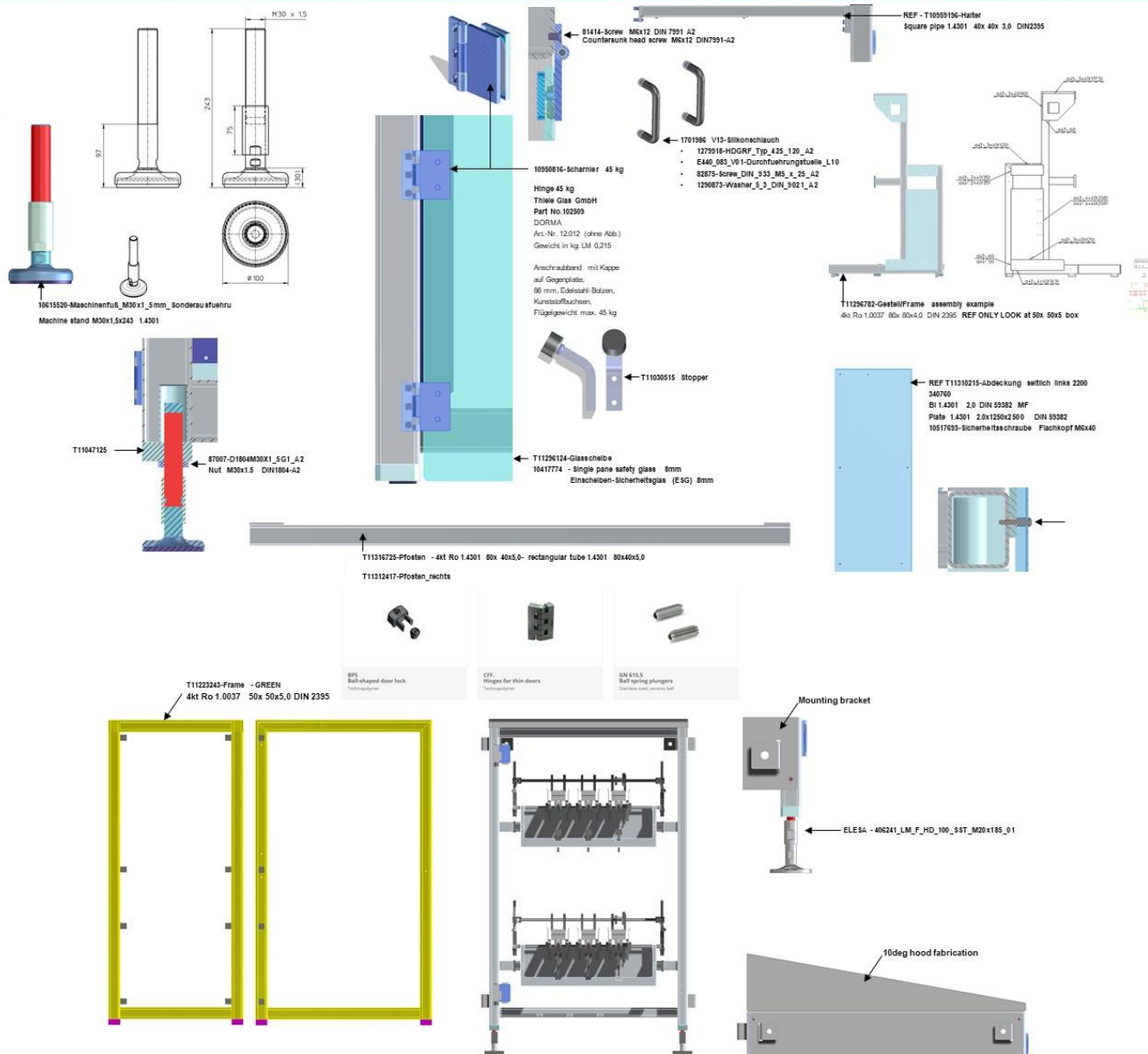
## 3D PRODUCT DEVELOPMENT

## PORTFOLIO

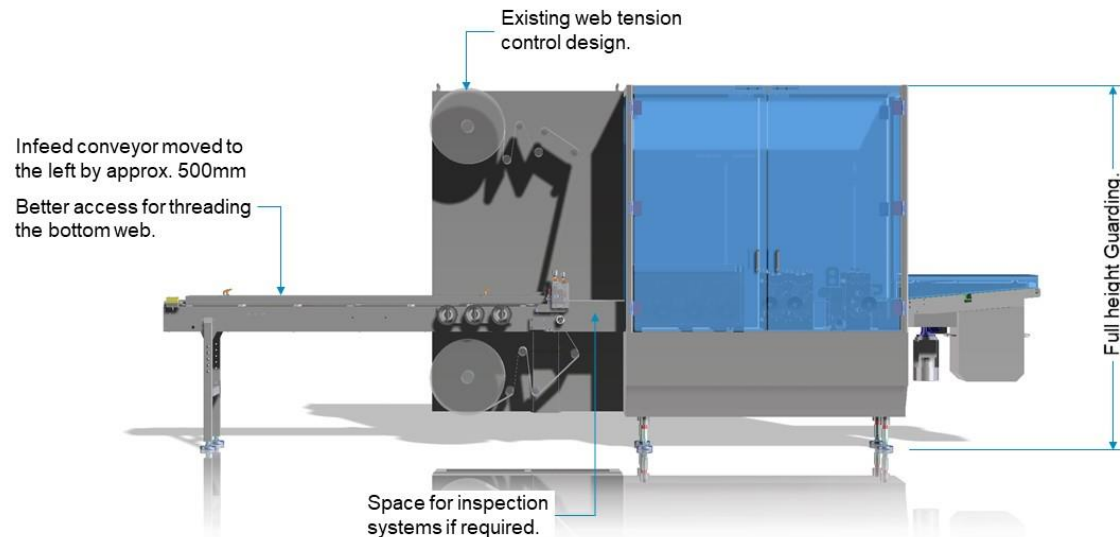
By  
Lee Woodcock



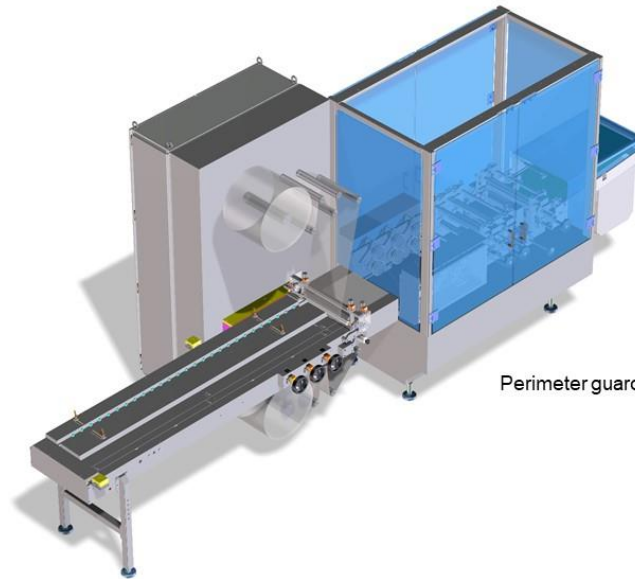




**Rotary 4SS Pouch Packaging Machine seals medical devices into pouches**

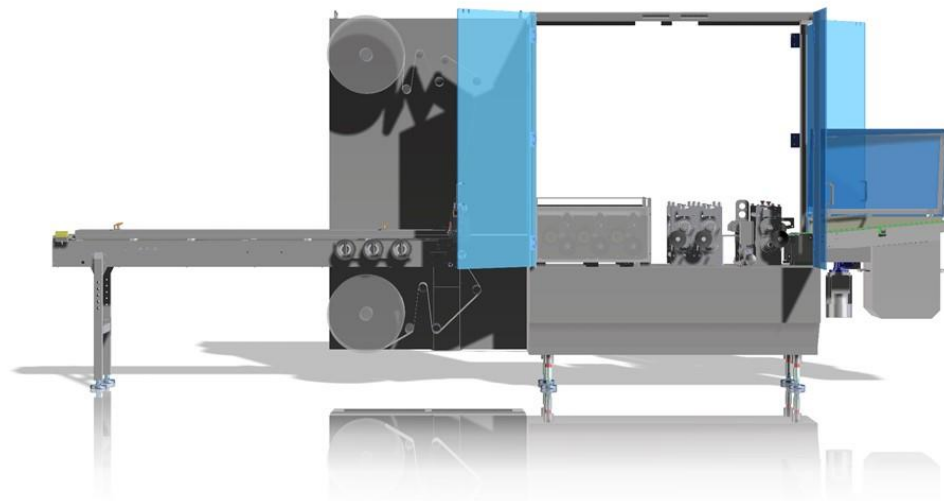


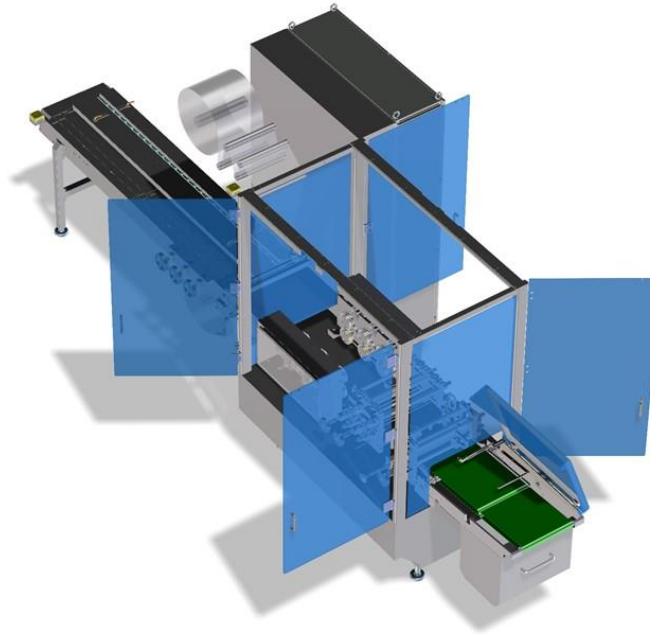




Perimeter guarding similar to the MDC Advanced Machine.

Doors open front and back for better operator access.

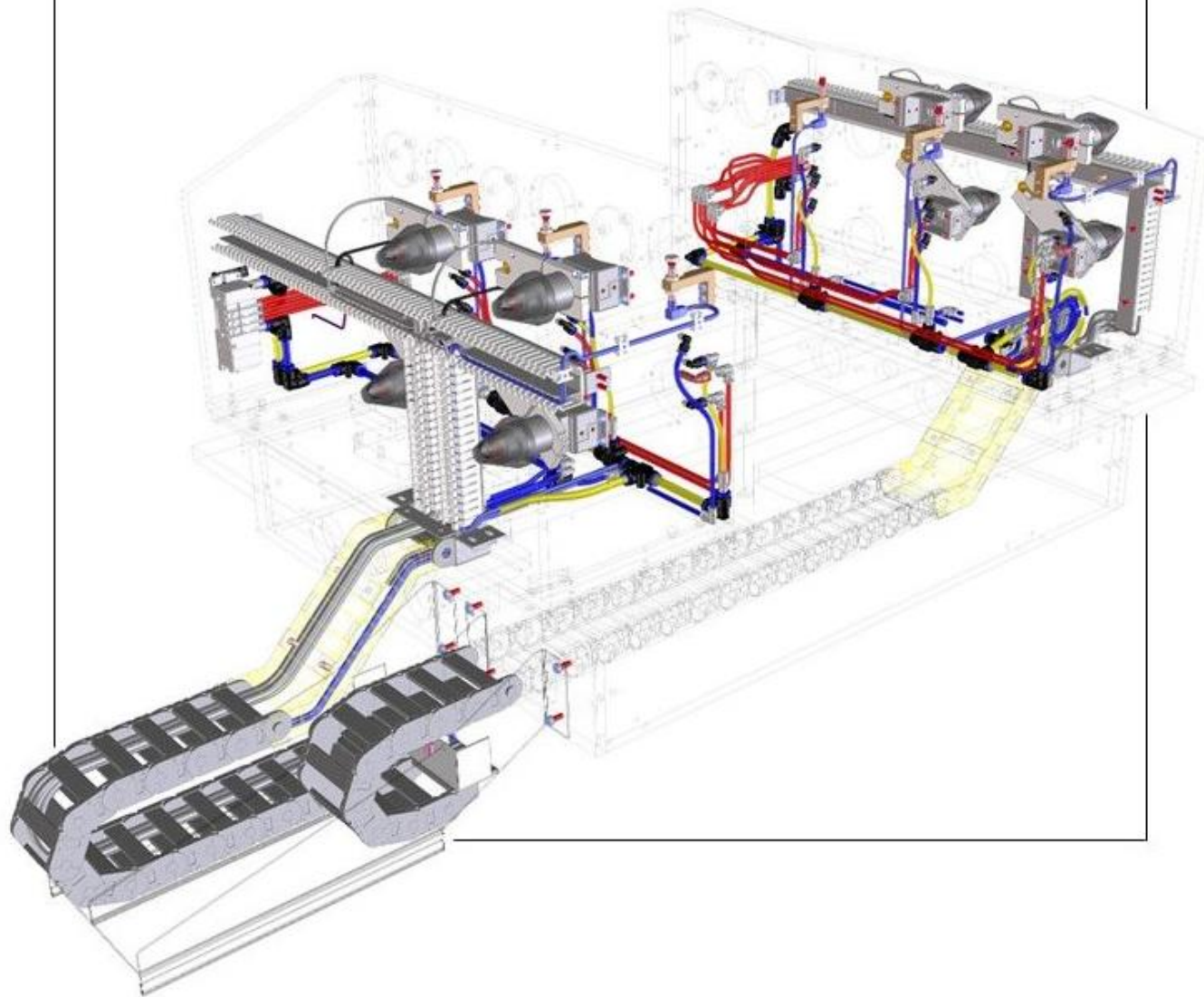




Standard off the shelf electrical cabinet connected to the machine. Does not need to be removed when moving the machine.

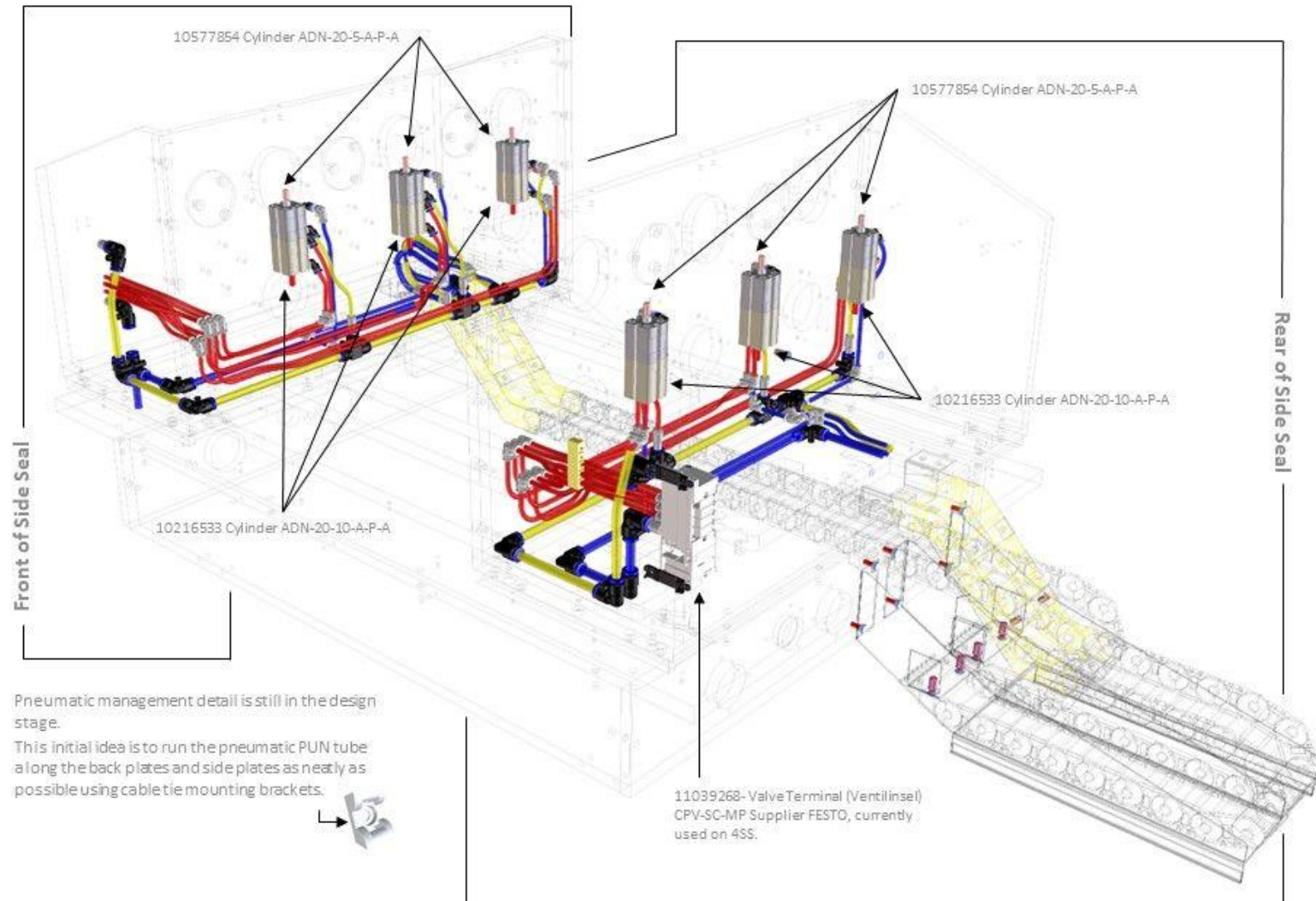


Cable management & Igus cable chain development  
Route management for power, pneumatic and signal

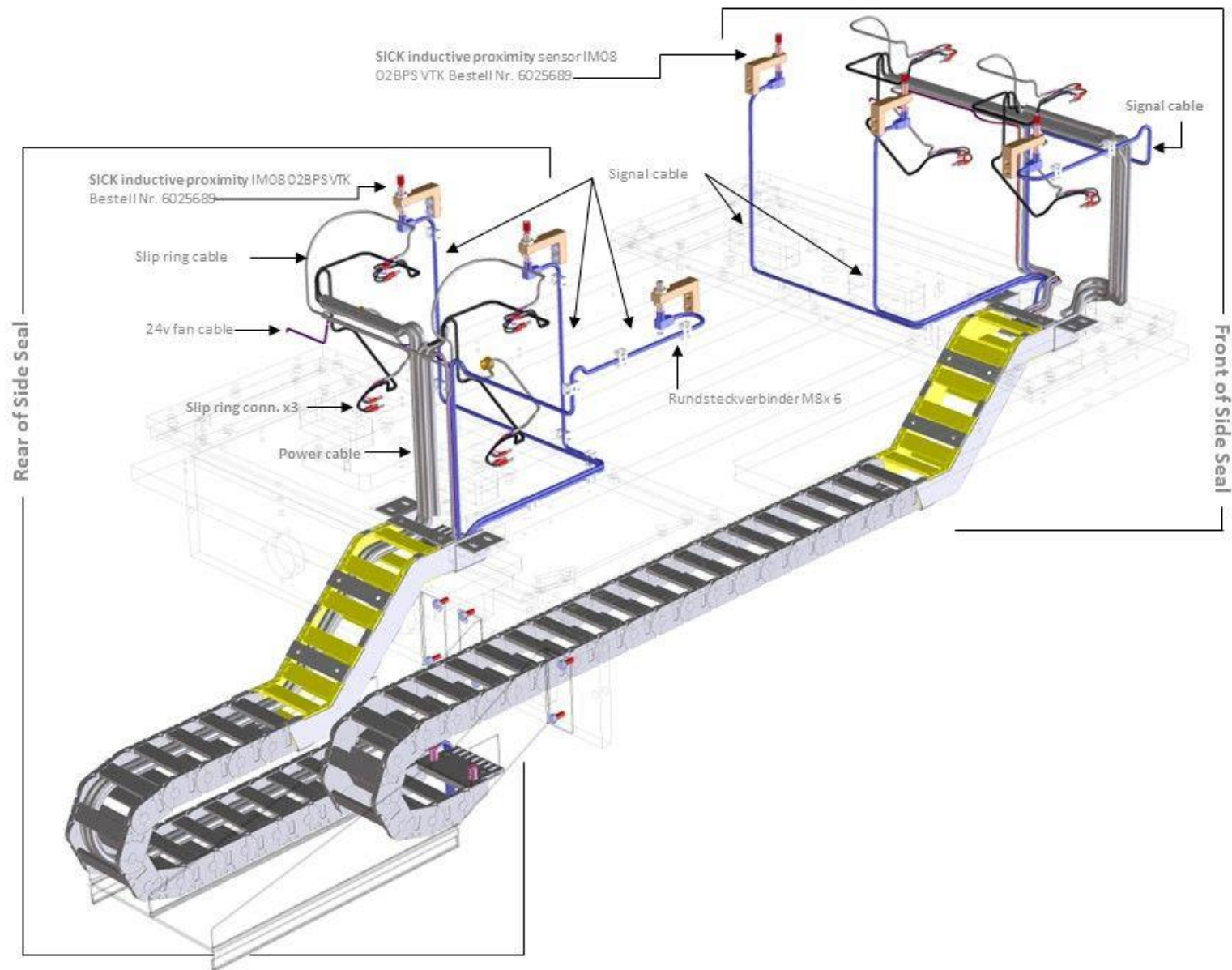




Design stage2. Pneumatic management runs for the Side Seal, FRONT & REAR, design is on going...



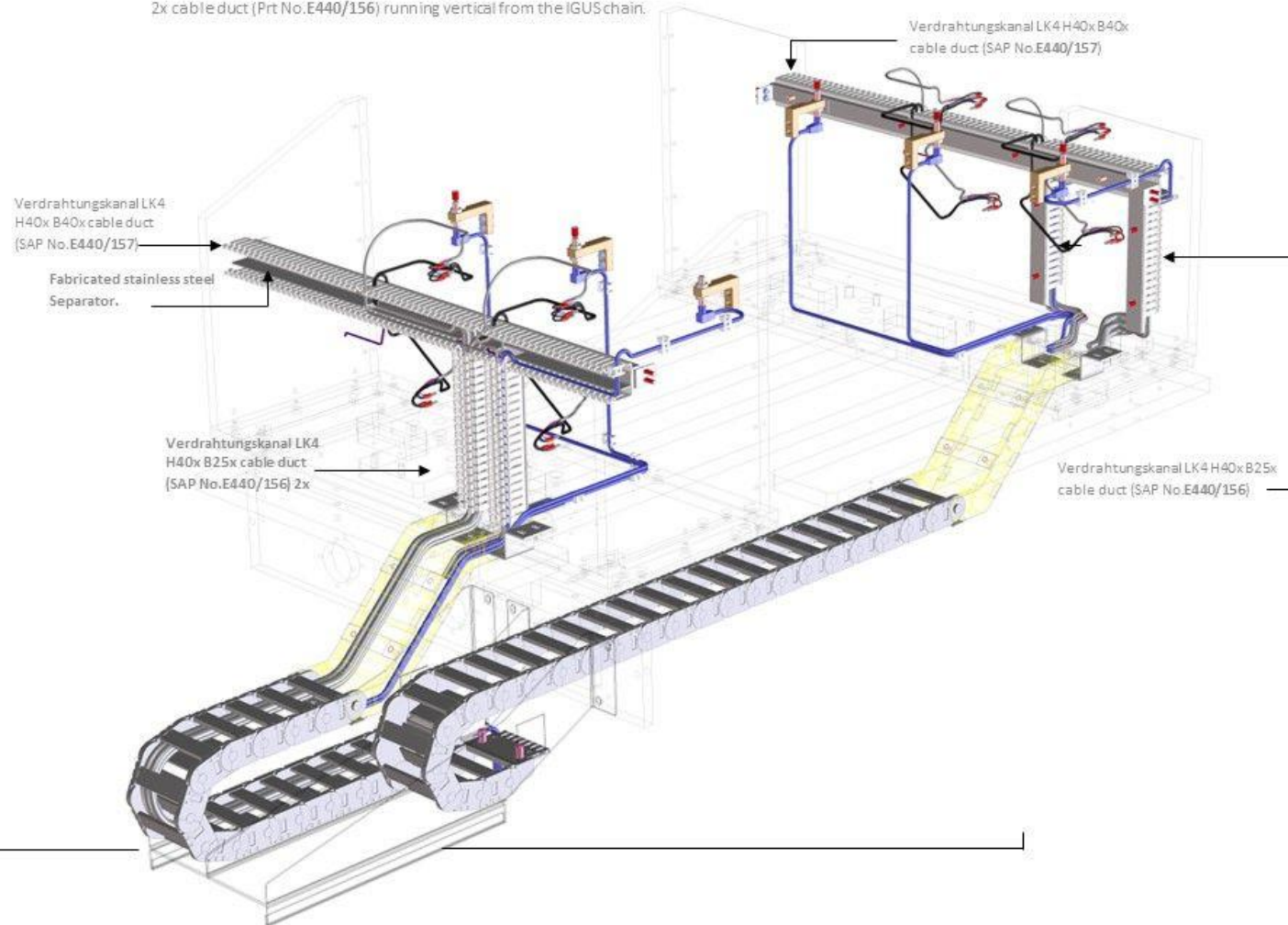
Design stage2. Cable management runs for Power & Signal have been fully designed into the Side Seal, FRONT & REAR.



Design stage2 cont. Front & Rear cable duct development:

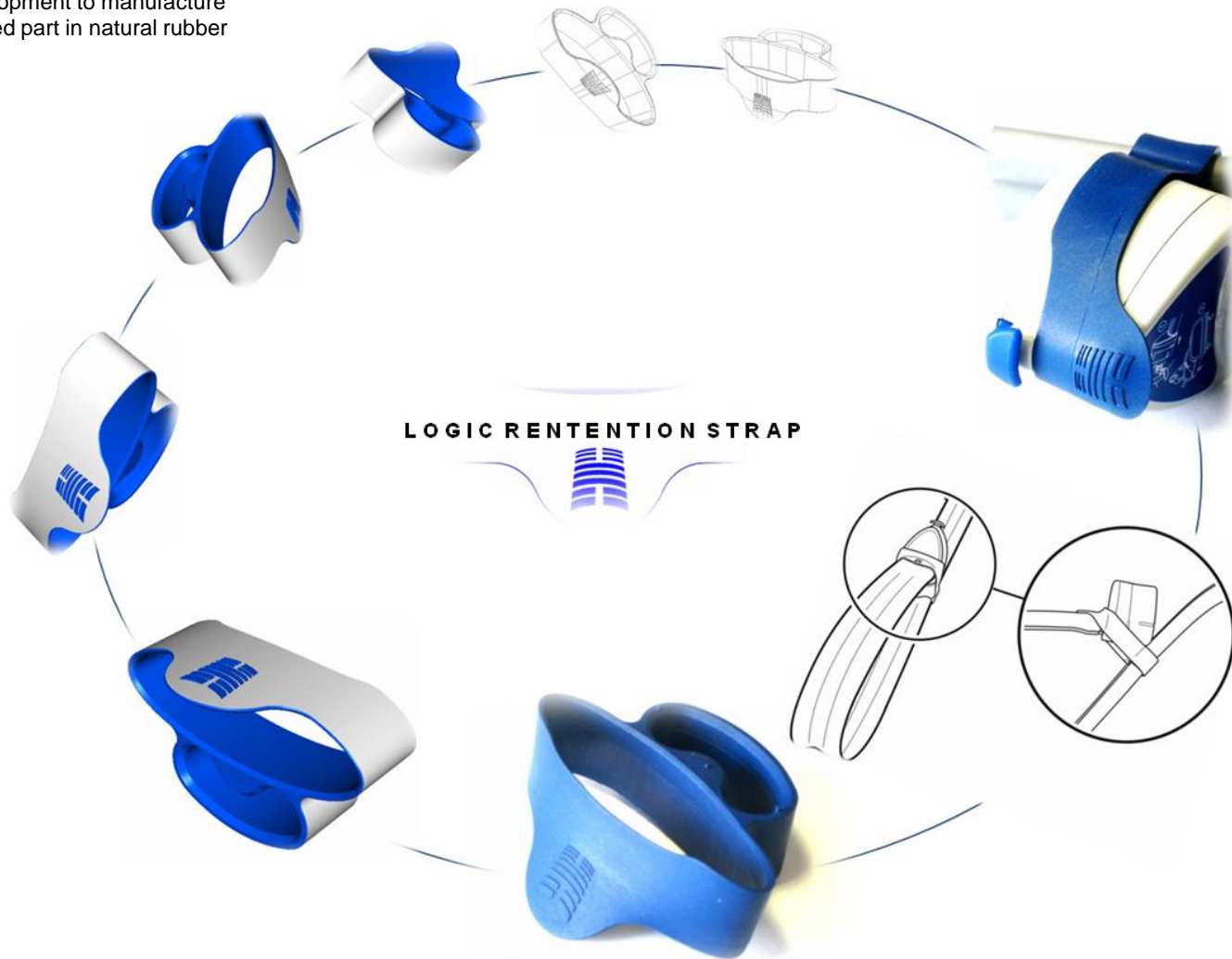
1x Cable duct (Prt No. E440/157) to run the length of the side seal unit and supported by a fabricated Stainless Steel support mounted to the insides face of the side plates using 2x M5 cylinder head screws at each end.

2x cable duct (Prt No.E440/156) running vertical from the IGUS chain.

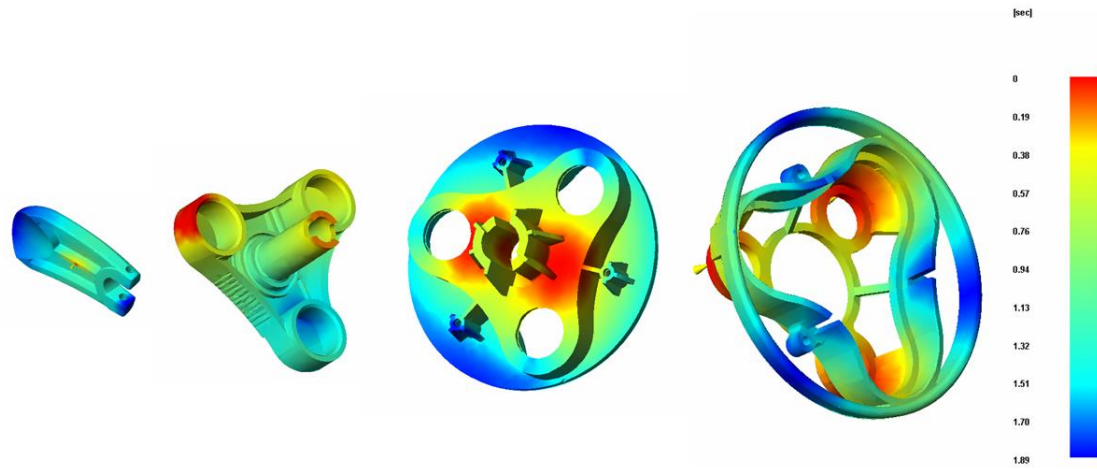
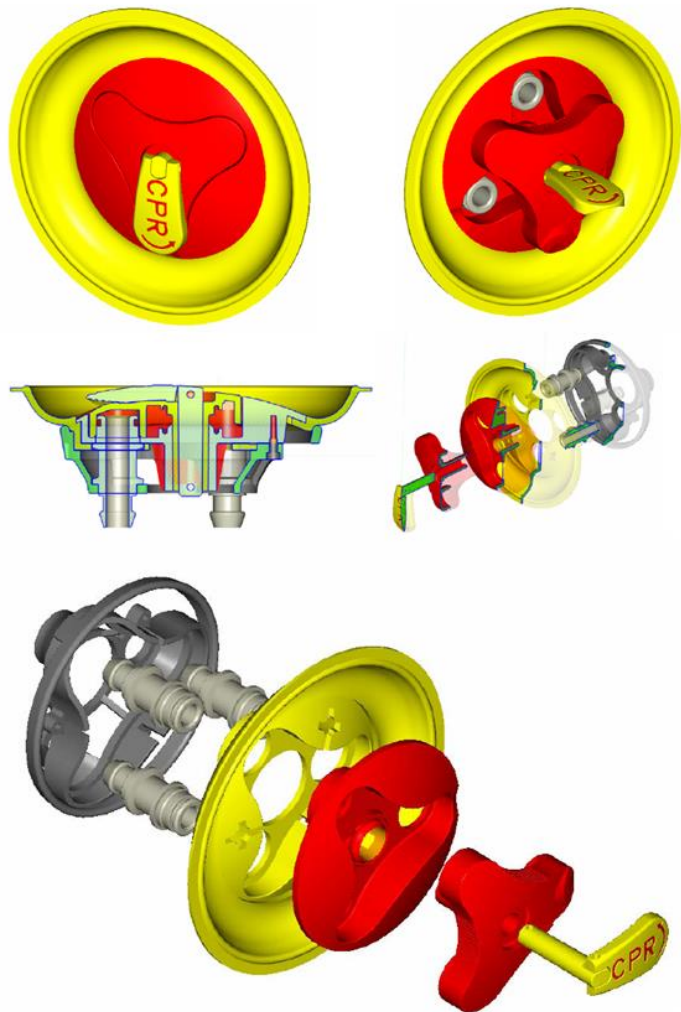


## Manifold transport retention strap

- Concept development to manufacture
- injection molded part in natural rubber





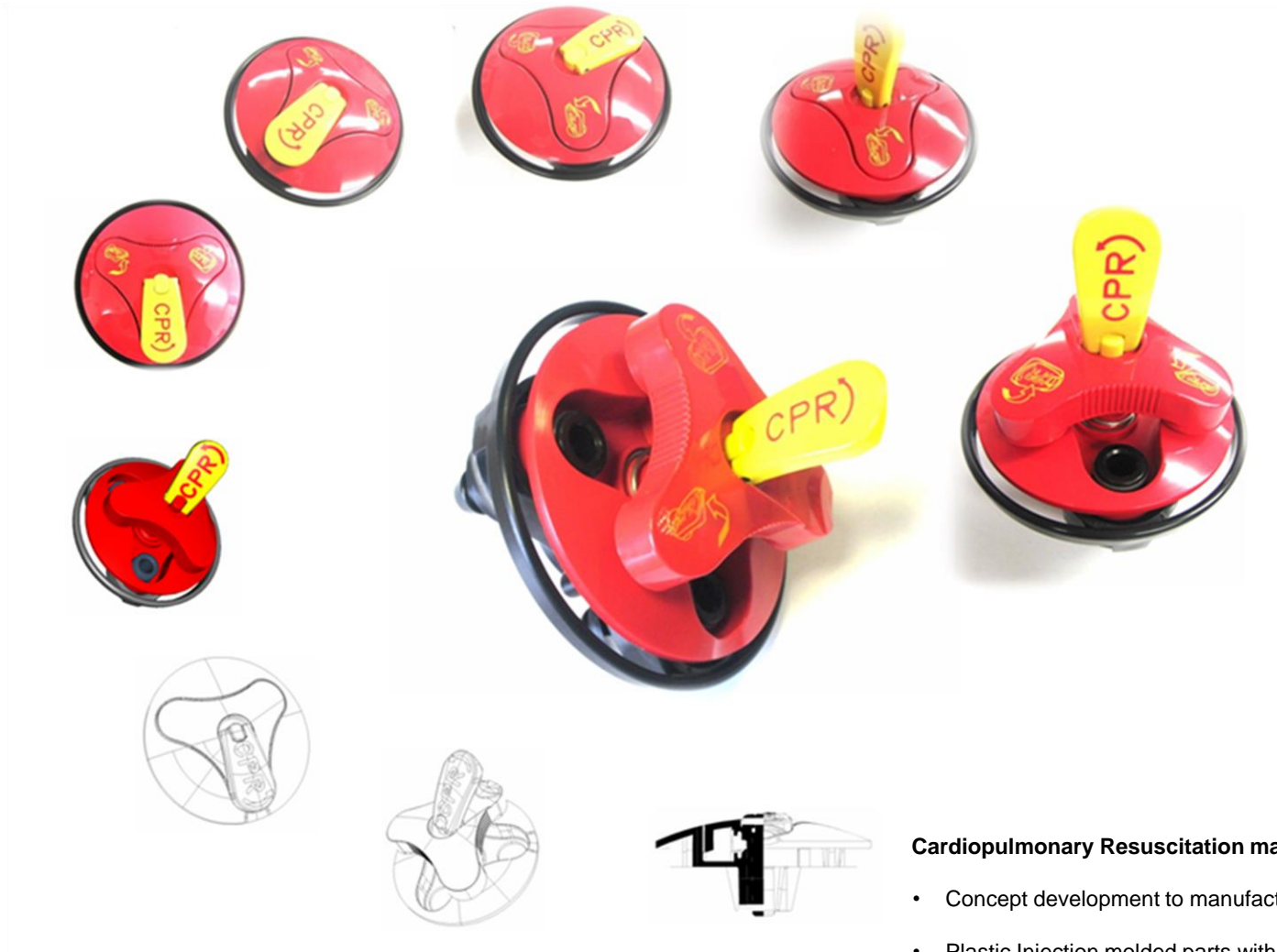


CPR MODULE MOLDFLOW

### Cardiopulmonary Resuscitation mattress release assembly

Moldflow analysis to identify areas of shrinkage during the injection mold process.





**Cardiopulmonary Resuscitation mattress air release assembly.**

- Concept development to manufacture
- Plastic Injection molded parts with spring loaded quick release mechanism.

**Cardiopulmonary Resuscitation management system, front and rear enclosures.**

- Concept development to manufacture.
- Front and rear fr-abs enclosures.

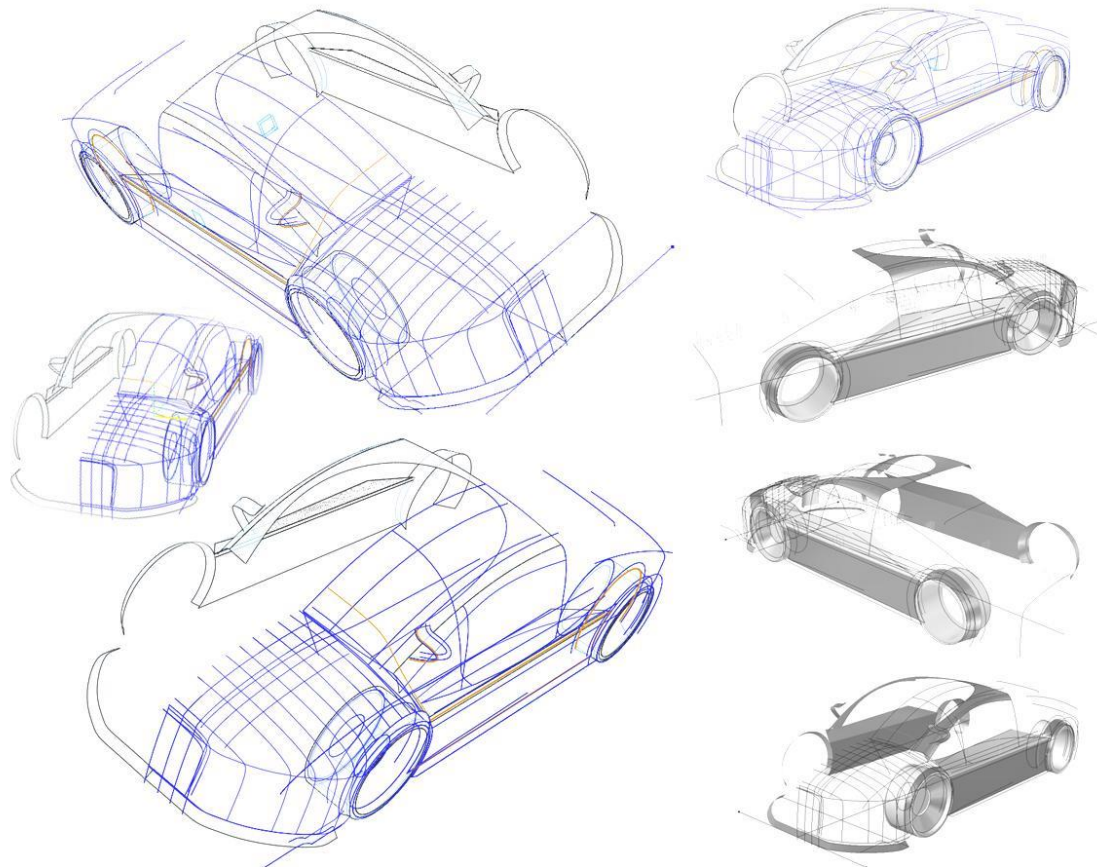


VISUALISATION Graphic Design

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Lee Woodcock



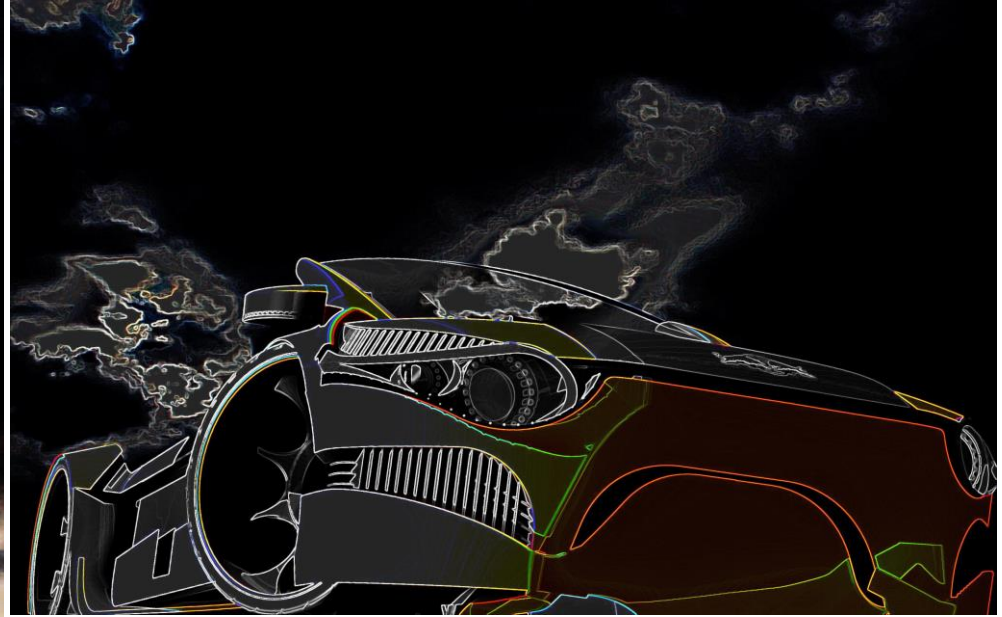


## 1M-E development

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Lee Woodcock







# VISUALISATION



PORTFOLIO

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Lee Woodcock