

STRONGER, LIGHTER, & AHEAD of SCHEDULE

CONTRACT NO: W52H09-07-P-0443

ENHANCING THE MILITARY'S
 TRANSPORT CAPACITY

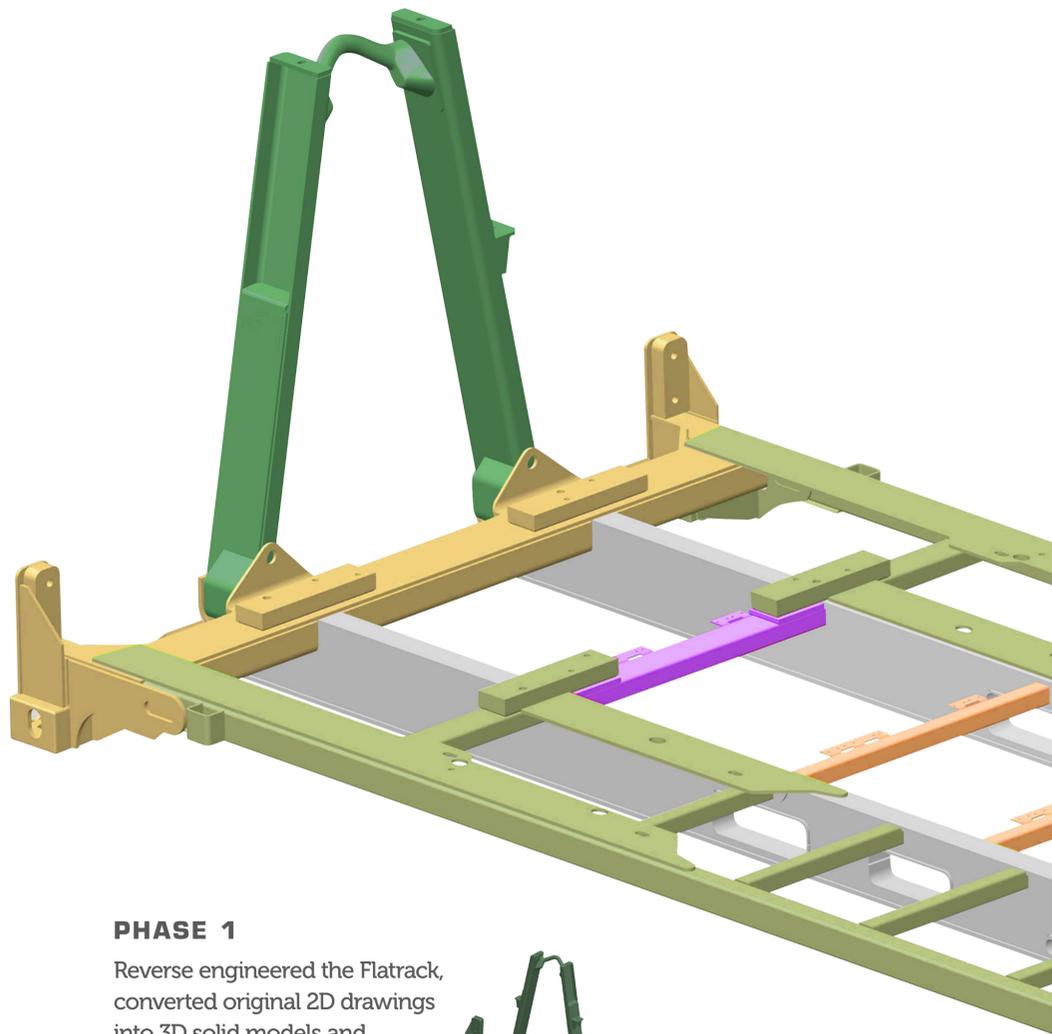
U.S. ARMY FLATRACK

THE CHALLENGE

Improve an existing flatrak for transportation purposes in various loading conditions by making it strong and lighter. All within a shortened timeframe because of an inventory shortage.

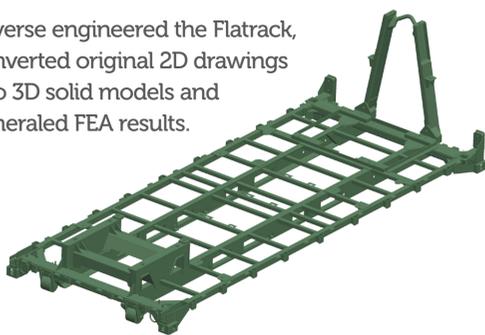
WE DELIVERED

- » Best strength to weight ratio
- » Lighter Payload
- » Reduce number of parts
- » More Reuseable parts
- » Easier to manufacture



PHASE 1

Reverse engineered the Flatrak, converted original 2D drawings into 3D solid models and generated FEA results.



PHASE 2

Redesigned Flatrak to accommodate objectives. Performed FEA to optimize new design and ensure it will perform to specifications.



PHASE 3

Provided prototype of new design that was 330 pounds less weight and could carry 24,600lbs.

