

# SERAM



Scrap handling Industry / Cranes Manufacturer

France

[www.designspace.com](http://www.designspace.com)



## Activity

Since its creation in 1973, SERAM is very well known in the scrap handling industry. They have developed over the years, cranes more and more powerful to satisfy the demands of various applications and users.

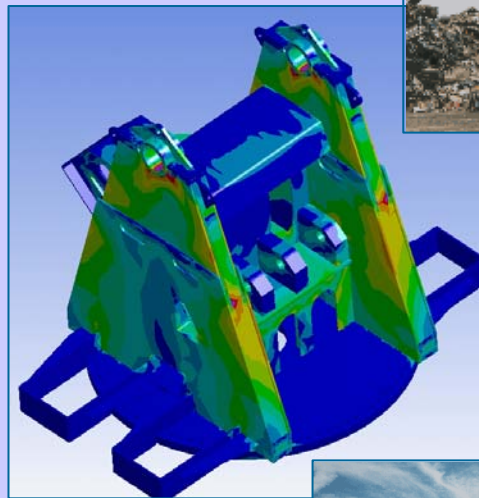
In 1985 SERAM designed, and developed a revolutionnary concept the « Hydraulically balanced crane ».

## Testimonial

ANSYS DesignSpace allowed us to optimise the design of the central structure of a hydraulically balanced crane and to reduce the weight by **30%** from 60 Tons to 41 Tons.

In addition to the weight saving, DesignSpace highlighted areas to reinforce due to the high stress level as well as areas where to remove material due to the low level of stress.

**Guillaume DELVIT**  
Design Manager  
SERAM Group



### Challenge

Several areas of applications to cover

- Ease of use
- CAD integration
- Analysis and optimisation of existing designs and structures

### Solution

- Deploy DesignSpace
- To shorten the "time to results" due to its speed and robustness of 3D transfer, pre processing, meshing and solving
  - For its topological optimisation feature
  - For its easy learning and ease of use

### Benefits

**Balanced and robust design for more tool reliability**

- Increased load capacity/safety, extended life/maintenance cycles,
- Decreased manufacturing expenses (material, machining)

**Consolidated secured decisions**

- analysis and comparison of new design variants,
- valuable information for feasibility and prototyping

**Immediate amortization within project**