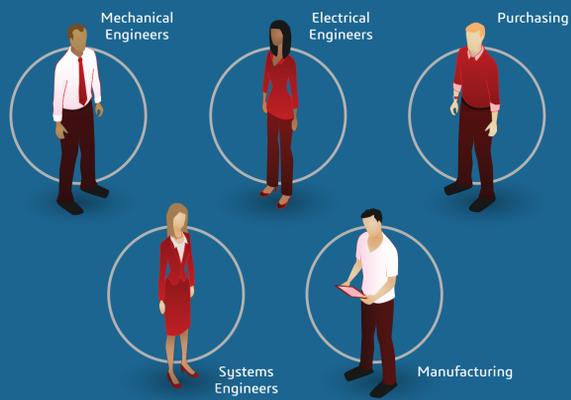


# STREAMLINING THE DESIGN OF INDUSTRIAL EQUIPMENT

## 1 REQUEST COMES IN

MRD (marketing request)      RFP/RFQ (customer request)

## 2 ASSEMBLE TEAM



### KEY QUESTIONS

- How do we solve this?
- Is it similar to something we developed before?
- If so, how do we find the assets?
- Can we build it and what are the risks?
- Do we need to start from scratch?

## 3 DEVELOP PROPOSAL

With SOLIDWORKS you can easily answer the questions raised in the project request.

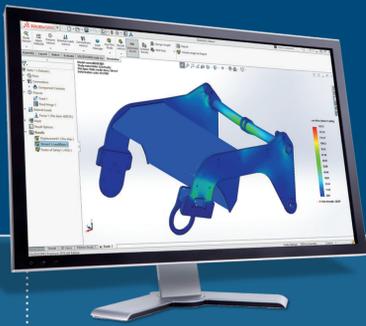
**PRODUCT STRUCTURE**  
Use PDM to find existing designs and begin to assemble the product structure with SOLIDWORKS Treehouse.



**CONCEPTUAL DESIGN**  
Determine what complex parts need to be designed.



**RISK ASSESSMENT**  
Determine whether the new design can be developed.



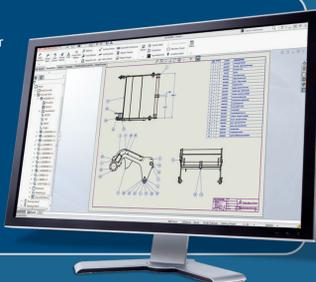
**COMMUNICATION**  
Develop quick animations and renders to communicate design intent and build buy-in with customer.



**COST ESTIMATES**  
Automatically estimate the costs of parts that must be manufactured.



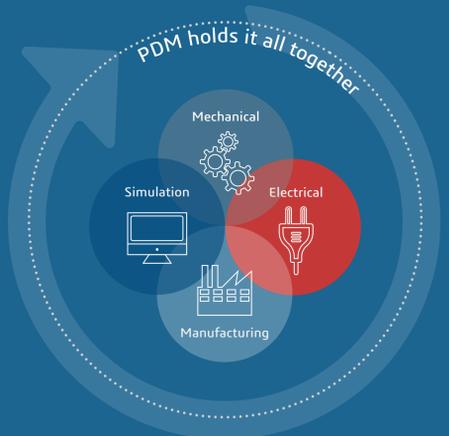
**BILL OF MATERIALS (BOM)**  
Automatically create a BOM for purchasing to get costs of purchased items and delivery impact of long lead items.



## 4 DESIGN ITERATIVELY

With the SOLIDWORKS integrated approach to product development, you can run a concurrent development workflow for design and manufacturing:

- Verify performance during design and reduce risk while you explore alternatives
- Manage and communicate design data efficiently with easy access to the most recent data
- Start manufacturing tasks during the design phase allowing critical feedback from manufacturing to be incorporated into the design earlier, resulting in products that are easier and cheaper to manufacture.



## 5 OUTPUT TO MANUFACTURING

Leverage CAD data to output the specific information needed by manufacturing facilities, production-ready files and documentation for the shop floor.

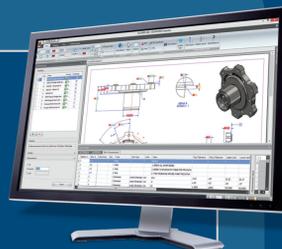
3D MODELS WITH GD&T FOR CAM  
MOLD, TOOL, DIE AND FIXTURES  
2D DRAWINGS FOR MANUFACTURING

ELECTRICAL SCHEMATICS  
FLAT PATTERNS AND BLANK SIZING  
DXF/DWG FILES  
HARNES & PIN BOARD DRAWINGS

SOLIDWORKS improves technical communication with 3D product manufacturing information (PMI) and automated creation of inspection documents.



SHOP FLOOR ASSEMBLY INSTRUCTIONS



## 6 DELIVER PRODUCT

Deliver user manuals, field repair documentation and marketing content to promote your product. With SOLIDWORKS you can repurpose existing 3D design data to rapidly create high quality graphical assets that are fully synchronized with your design process.



MANUAL/USER GUIDE



IMAGES FOR MARKETING

LEARN MORE ABOUT SOLIDWORKS SOLUTIONS FOR INDUSTRIAL EQUIPMENT