Are you ready to make a step change in the efficiency of your assembly line?

The Institute for Manufacturing (IfM) has developed a proven approach to improving product design in order to make production line assembly as easy as possible – and hence dramatically increase the number of units you can make and the speed with which you can make them. Our workshops have resulted in assembly times being cut by more than half and generated significant increases in productivity.

**IfM ‘design for assembly’ workshops**

Good design can greatly simplify the process of manufacturing a product, resulting in significant reductions in cost and assembly time. To achieve this, however, it is essential that designers and engineers work together, so that products are developed with assembly in mind.

We can help by running hands-on, in-house workshops with your design and engineering teams. These typically last two days, during which time we review your product design and assembly processes and identify areas for improvement. Not only will you end up with a clear action plan, your designers and engineers will have acquired the knowledge and skills to use the same approach on any new products your company develops in the future.

**Benefits**

- Increased productivity
- Significant cost savings
- Better performance across a product’s whole life-cycle, including repair and maintenance
- Greater return on plant investment

If the answer is ‘yes’ to any of these questions, the IfM’s ‘Design for Assembly’ workshop could help you improve your productivity and increase your margins.
What does a ‘Design for Assembly’ workshop cover?

The workshops are extremely practical and tailored to suit your company’s particular needs and circumstances. They are based on tried and tested principles and result in an objective appraisal of where you currently are and how you can get where you want to be. Whenever possible, we hold the workshops at your production site so we can fully review your current design and assembly practices. A typical workshop would include:

**Day one**
- We introduce the principles of design for assembly.
- You set targets for improvement: do you want to move from producing 1,000 to 10,000 units a year, for example? Or make 20% cost savings?
- As a group, we take apart one of your products and put it back together. We do the same with other companies’ products to see what works and what doesn’t.
- We help you identify design problems and potential improvements.
- Jointly, we summarise and capture the key design rules.

**Day two**
- Everyone observes your assembly line in action, looking at all the processes involved and how long each one takes, the rate at which products come off the assembly line and how much total work has gone into each product.
- Together we generate new design ideas to solve any problems we identified.
- We benchmark these ideas against other designs: your own and, where appropriate, your competitors’.
- As a group, we decide how to change your product design and assembly processes which often involves radical rethinking.
- You agree an action plan.