



Custom Moulding



Here at Sturdy Products we have a very experienced Design Team. We have many current and potential new customers who contact us with their ideas, when we work together to bring those concepts to reality.

Our design team has a vast experience in the area of design and design engineering.

Here is a overview of the process of how a custom moulding idea comes to life.



The Brief

We work with customers to help optimise their idea. Once we have come up with the product requirements we write up a product brief so that everyone is clear and if there is anything that needs to be changed it done here. Our be design department have many years experience so no challenge is too big. When you are happy with the brief it is signed off and we move to the next step; Concepts.

Company: Sturdy Products Project Title: Self Leveling Trolley Issue Date: 14.07,2014

PROJECT BRIEF

Self leveling trolleys are used in laundries, among other industries, Sturdy Products are proposing to develop such a trolley which will be rectangular in shape and sized based on industrial laundry use. The floor of the trolley will be required to lower as more mass is placed on it. When the floor is unloaded it will rise to a level acceptable for manual handling.

Ints: The dimensions of the container are as follows;

External: Length: 1600mm Height: 800mm Width: 950mm

These dimensions, or as close to these as possible should be used.

The container shall be as light as possible (both plastic and steel content), while maximising strength and durability.

The floor shall be fully lowered under a 170kg load (wet linen).

4. The current and the control of the castor 97mm, It may be required to use stainless steel bearings if the trolley is to be steam cleaned.

The product shall have no sharp edges that would cause injury. All corners should be well rounded with a minimum radius of 10mm where possible.

Material or linen shall not get stuck in any mechanism of the leveling system.

9. The floor shall lower and raise in a level position and be stable at every point.

10. The floor shall raise to a level within 100mm of the top of the trolley.

13. There shall be an I.D. pouch incorporated in the design. Which will be A4 in size. It shall not be made from perspex.

14. The product shall be made from compounded material so as not to have any colour give-off,

15. The gap between the floor and the sides of the trolley should be kept to a minimum.

The underside of the trolley shall be open to allow access to the framework for servicing and maintenance/

Strengthening ribs and panels shall be considered during the design.

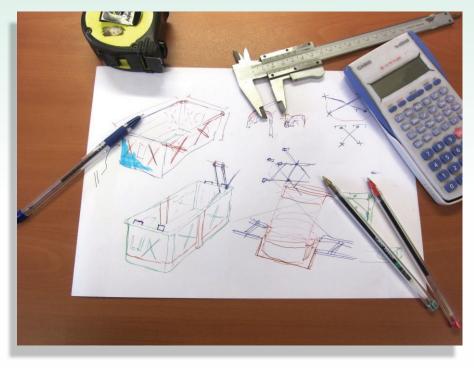
18. Consider panels for signage.

Parts subject to wear and tear shall be standard off-the-shelf parts.

___ Signed:_____ Signed: Date: Date:

Concepts

Our design department meet and discuss the best way to fulfil your requirements. At this stage we generate multiple concepts and later develop the most promising ones until the design is finalized. this while We do staying conscious of labour and material cost to enable the most efficient production





3D Design

Our design department have great capabilities when it comes to 3D design and graphics. It is possible for us to generate a replica of what your product will look like. If you want to take it further we can produce life-like renderings in real environments, whether it's in your garden, loading a full container load, cut in various pieces or even exploded view showing the individual components of the product.









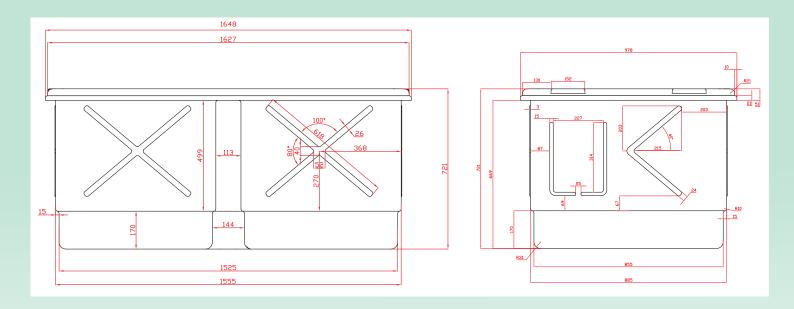






2D Drawings

Once everyone is happy with the 3D design we move on to creating technical CAD drawings, both for your sizing of the product and for our own use while fabricating the mould of your product.



Costing

We have very good working relationships with our suppliers so if there are any extra components parts/ you require we are confident we can get you the very best We prices. calculate costings for the mould, the costs produce the product and we are confident we can offer you a very competitive price for your products.

Weight	Estimated Mould Fabrication (Complete Mould)
Material	
Colour	Fab. Shop hours
Consumables	20 Clamps
Wastage	CR4 Material
Fittings	40mm X 8mm X 3.5m Flange
Gas	
Printing	Fittings
Labour	x2 Swivel castors, x2 braked castors
Extra Labour	x 4 bearings
Electricity	x4 M12 x 50 Bolts
Currency	x4 M12 Nylock Nuts
Transport	x4 M12 serrated washers
Mould	x2 M8 x 65 Bolts
Cost	x20 M8 x 45 Bolts
	x22 M8 Nylock Bolts
	x44 M8 x 25mm washers
	Spring
	5mm plastic sheet for floor
	Galvanize Frame
	Steel for frame
	Labour for frame
	Clear Polycarbonate A4 size



Mould Fabrication

Our mould fabricators are very experienced and can produce vastly complex moulds for your product. Depending on the complexity of the product, the mould fabrication lead time may vary but we can send you updates and pictures of the progress of the moulds as they are manufactured. Once the mould is complete we progress to production of initial samples.







After production of initial samples these products are measured and tested to ensure the product reflects the product design. Any modifications/ improvements can easily be introduced on site and the product may be re-evaluated in a very short span of time.





So contact us with your idea and see what we can do for you!







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Looking forward to hearing from you.

