

Tiffany
Roddis
Product Designer
Email: tiffanyroddis@hotmail.co.uk
Portfolio: www.coroflot.com/tiffanyroddis
Mobile: +44 (0)7814540764



Major Project
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First Class
Masters of Design and Bachelors of Design
University of Leeds



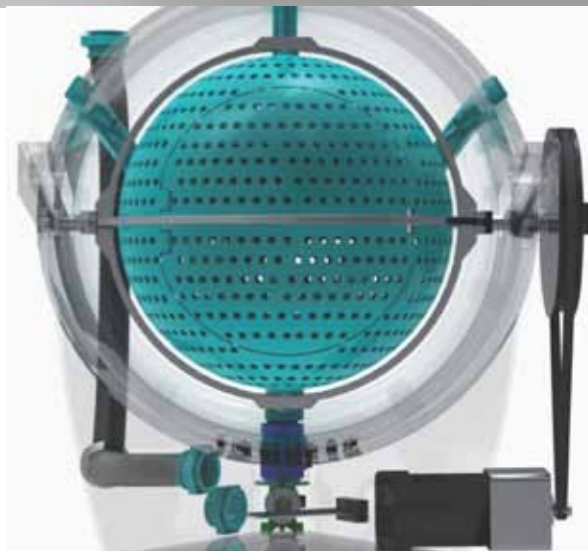
“A new approach to washing clothes designed with user behaviour in mind to ensure every wash is environment friendly.”

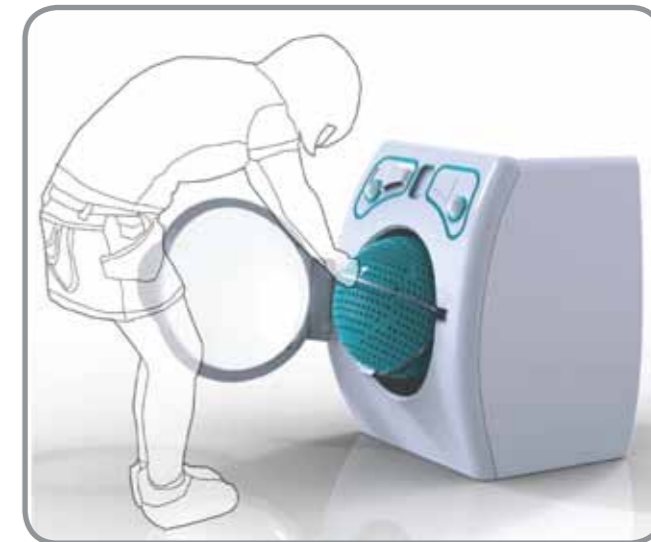
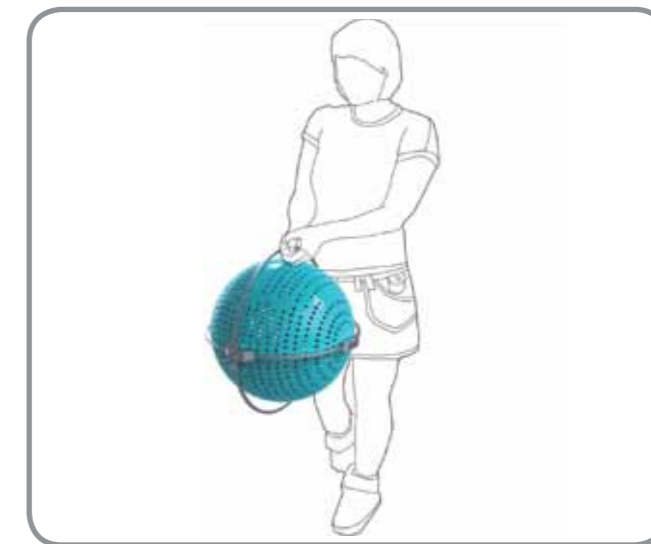


Spherical Drum

The spherical drum pivots on two axes allowing your clothes to move in all directions for a faster and more energy efficient wash. Once the drum is inserted into the machine the solenoid valve is activated and engages the drive. The drive rotates the drum and the weight of the clothes spinning would then rotate around in another direction. As the drum rotates in all directions a centrifugal force is acting on the drum. As the drum spins it forces the clothes to stick to the inner sides of the drum allowing the water to pass through and efficiently washes the clothes.

In a conventional washing machine a large amount of energy is needed to drive the drum through the water, however in orbital the water is pumped through and sprayed out on to the drum through a shower which surrounds the tub. The drum would require less energy to spin through the water and less water is needed as it is being continually pumped around and sprayed.





User Behaviour

Orbital provides the consumer with two drums, which can be used as washing baskets. One drum is white (for white/light clothing) and the other drum is blue (for coloured/dark clothing). Instead of the user having to sort out their darks from their whites before they wash their clothes, they are able to separate them as soon as their clothes get dirty. The user also has a choice to wash their clothes using different size drums for full or half loads.

Reducing the time and effort of sorting out clothes before a wash will shorten the number of steps required to achieve the end goal and this will lead to the task being accomplished successfully and efficiently.

Websites

www.yankodesign.com, www.hometone.com, www.igreenspot.com, www.5election.com, www.materialicious.com

Magazines

www.thedesignermagazine.com, Transportes em Revista, ARCH magazine.

