

BERTO PANDOLFO

SPK

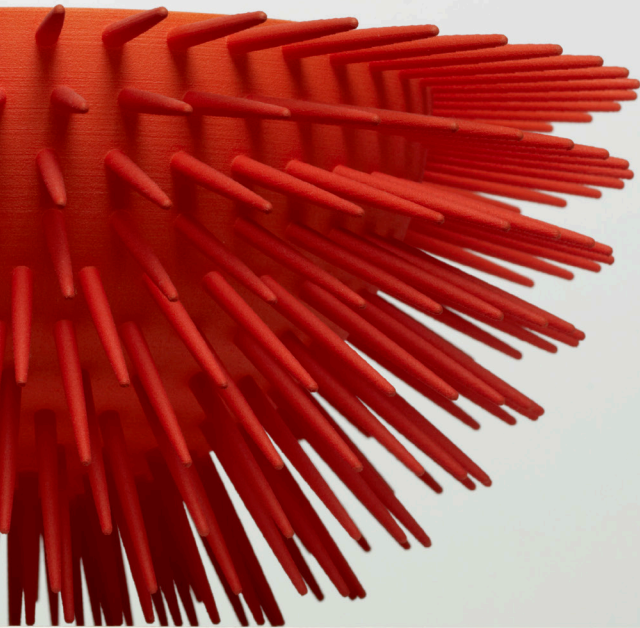
2010 | *Digifactory: Industrial Design and Advanced Manufacturing*

A new technology recently became readily available in the field of advanced manufacturing and the question of how this manufacturing innovation could be applied to the design of objects arose. Existing manufacturing methods require either time consuming handcraft skills or costly and restrictive industrial methods such as injection moulding or sheet metal pressing. Selective Laser Sintering (SLS) and Direct Metal Laser Sintering (DMLS) technologies enable rapid manufacture of objects in high performance materials using 3D CAD models and are predicted to challenge traditional manufacturing systems. The SPK bowl emerged out of research into the extent of suitability of SLS and DMLS technologies as alternative manufacturing methods.

The SPK bowl provides a unique solution that maintains the ability to satisfy the dual functions of a container and an appealing visual object. It is an object that could not be made using any other method. Exploiting the inherent peculiarities of the SLS technology enabled me to uncover a design solution that would be virtually impossible using other methods.

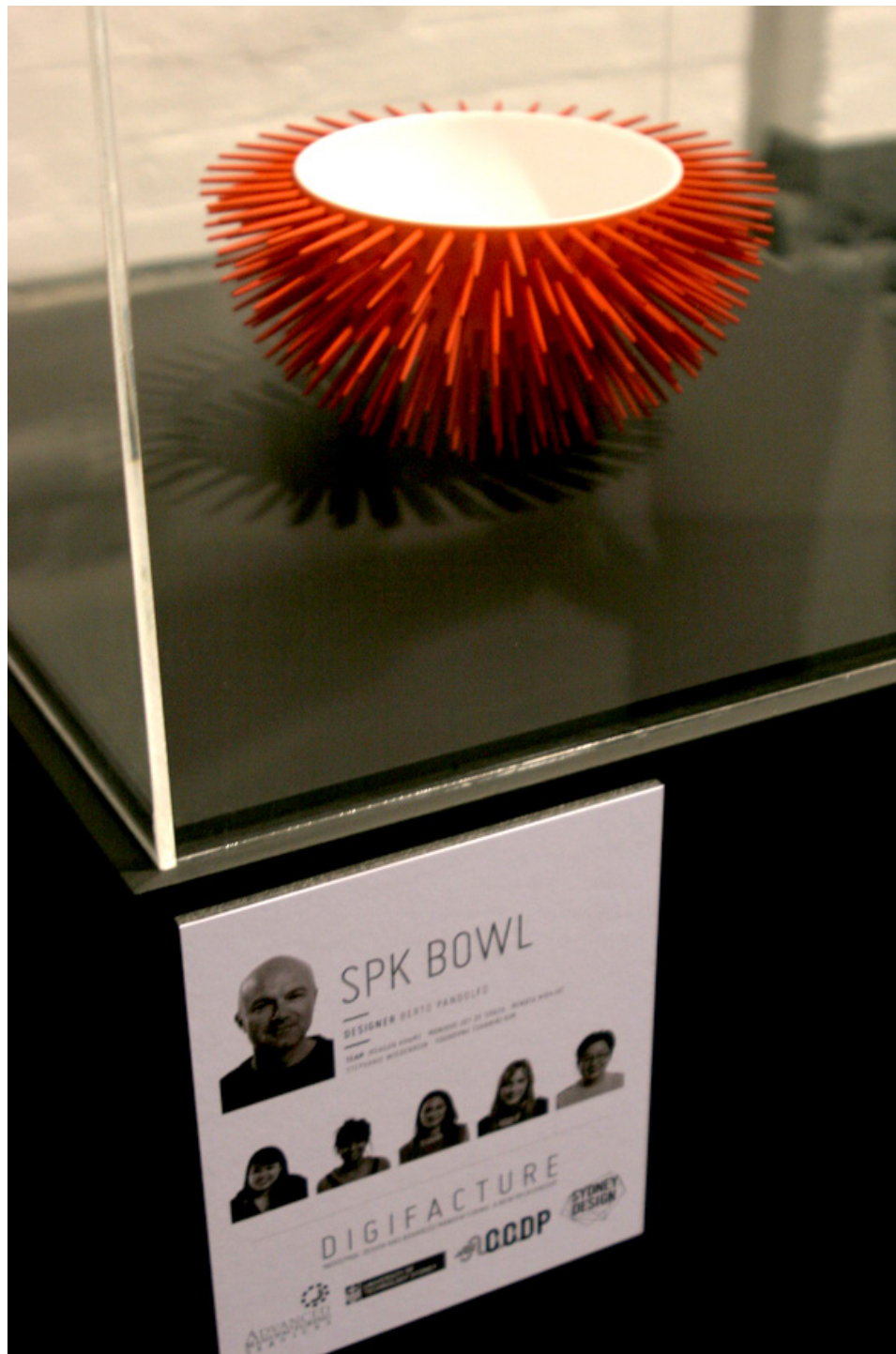
The SPK bowl is significant as it represents an outcome from a practice-led research investigation into a new manufacturing paradigm. The Selective Laser Sintering technology can generate final (market ready) objects direct from 3D CAD models providing designers and manufacturers with a new method for evaluation when considering manufacturing options. The SPK bowl also provides a platform for the development of new objects that can now be distinguished from existing products, therefore creating a new typology of product.

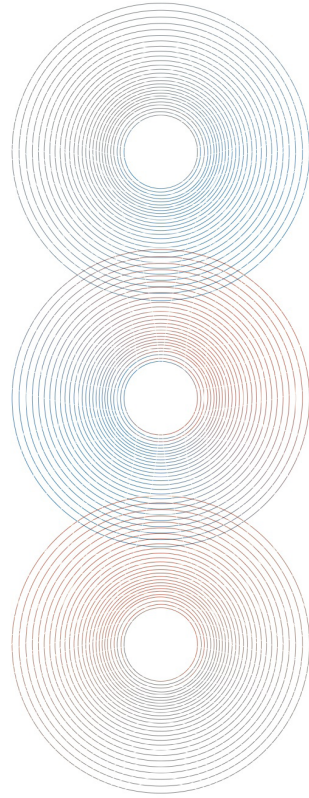
SPK, detail





Side and top view of work





DIGIFACTURE

INDUSTRIAL DESIGN AND ADVANCED MANUFACTURING: A NEW RELATIONSHIP

OPENING NIGHT

THURSDAY AUGUST 5, 6.30 – 8.30PM

EXHIBITION OPEN DAILY 1–5PM UNTIL AUGUST 10

A DESIGN EXHIBITION CURATED BY BERTO PANDOLFO AND RODERICK WALDEN
FRASER STUDIOS 10–14 KENSINGTON ST, CHIPPENDALE



SYDNEY DESIGN

DIGIFACTURE

31 July–15 August,
Monday–Friday 9am–5pm
Fraser Studio, Chippendale, free

One of the most exciting developments in manufacturing in recent times has been the process called selective laser sintering (SLS). This process allows designers to create solid complex objects quickly and with no tooling. It utilises a computer-controlled laser beam that fuses together plastic or metallic powder—one cross-sectional layer at a time.

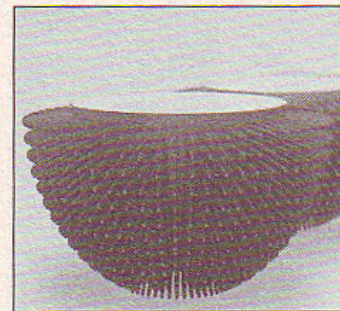
This exhibition highlights the remarkable flexibility, complexity and joyous creativity unleashed by SLS. On display is a series of SLS design projects by the industrial design program at the UTS, Sydney, in collaboration with Advanced Manufacturing Services, Australia. The exhibition proposes future directions in industrial design and its relationship with manufacturing.

OpenHAUS:

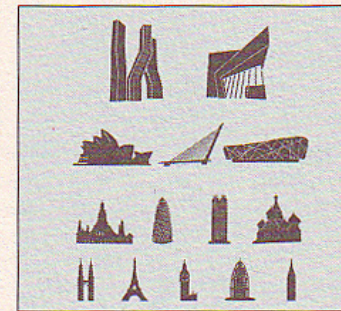
Advertisements for Architecture
31 July–15 August,
Monday–Saturday
10am–4pm, daily, free
Talk: 3 August
6.30pm–8.30pm, \$10
Tusculum, 3 Manning Street,
Potts Point. Bookings 9246 4055

When architects, design professionals and students were invited to create *Advertisements for Architecture*, the results included an array of tongue-in-cheek ads, ranging from a cigarette pack poster saying ‘Architecture is Addictive’ to a heavy-metal inspired t-shirt. Even the world’s most famous fictional architect, Mike from *The Brady Bunch*, gets a guernsey in one of the ads. The ‘mad men’—and women—who have created these faux advertising gems will discuss their work at a lively talk for architects, designers and the public.

Urchin, Berto Pandolfo



A Vision for Tomorrow, (detail) Adrian Lo



1. Exhibition poster
2. Excerpt from Sydney Design