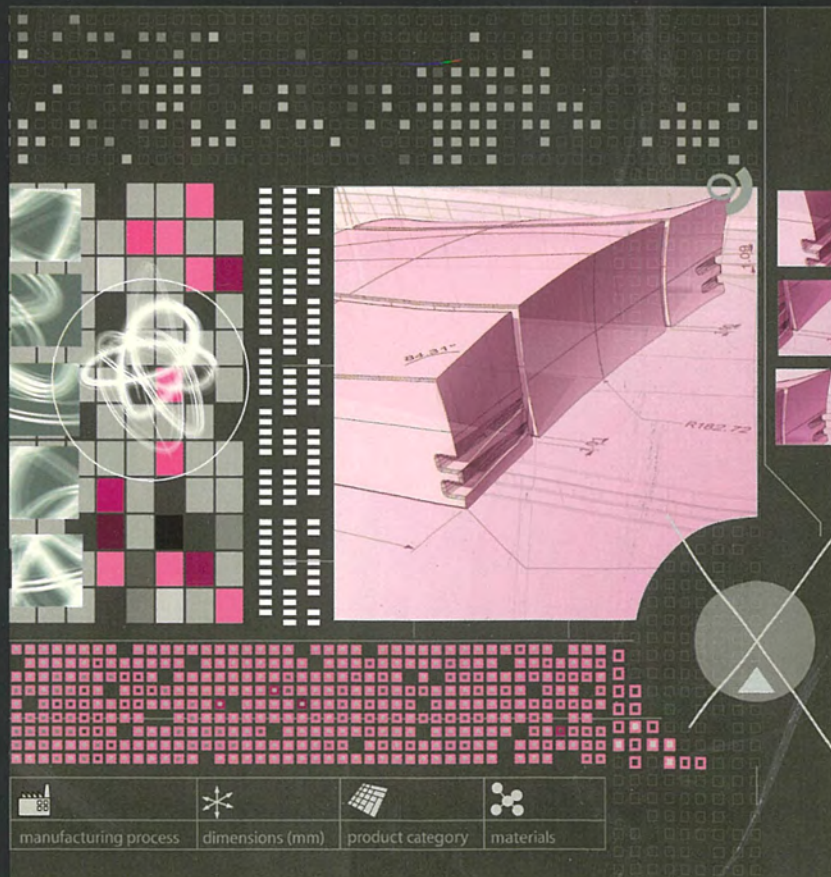


UNSW Faculty of the Built Environment Graduate Exhibition 2004

perform

bachelor of **industrial design**





To mark the Year of the Built Environment, the University of New South Wales is staging one of its largest and most impressive graduand exhibitions. The Faculty of the Built Environment will present for the first time a combined exhibition of the work of 250 final-year students. Celebrating the diversity of the built environment, *perform* represents all eight Faculty programs: Architecture, Industrial Design, Geography, Science Architecture, Landscape Architecture, Interior Architecture, Planning and Urban Development, and Building Construction Management.

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UNSW Faculty of the Built Environment Graduat Exhibition 2004

perform

bachelor of **industrial design**

The most pleasant of my duties is to applaud the excellent work of our students and their highly committed teachers. This year's published record of the achievements of our graduands demonstrates the rich diversity of the work that has been produced and the high quality of the education that we offer in the Faculty. This document was launched from the platform of an exceptional Graduation Exhibition in the Sydney Town Hall. This was the first time that the work of all of the Faculty's diversity of teaching programs – Architecture, Landscape Architecture, Urban Planning, Interior Architecture, Human Geography, Construction Management, Science Architecture and Industrial Design - were included in the same place. Our decision to hold this event in the Town Hall reflects the great pride we take in our students' work and our commitment to taking that work into the public domain. My congratulations to the students and my very best wishes for your futures. There is no greater challenge in the 21st century than the production and management of the built environment, in its many forms, to achieve equitable, environmentally sound outcomes that delight and succor our human lives.

Prof. Peter Murphy
Dean, Faculty of the Built Environment

The final year student projects presented in this catalogue serve to show the diversity of ways in which industrial design contributes to everyday life. Projects this year show innovative responses to, for example, new technologies, changing expectations and emerging cultural patterns. The designs meet identified needs and seek to do so with some extra qualities that provoke new insights and bring satisfaction to the user.

Each of the design outcomes presented here is built upon a major investigation and the design is backed by a report establishing the need for the product, its technical and commercial feasibility, and its suitability to the intended users. The design process has included exploration of ideas, evaluation, testing, and thorough resolution of the details. Evident in this work is the fact that industrial design requires not only technical skills but the ability to connect ideas with knowledge from many areas.

It has been exciting to work with these students, to see them make discoveries and extend their capabilities over their program of study at UNSW. In getting to this point the students have completed a four year program that integrates design practice with marketing, sciences, engineering, manufacturing, commerce, history and theory. Their studies have given them skills and a framework for making creative, appropriate and responsible choices.

The graduands now presenting their work are ready to take up positions where they will make a valuable contribution to the community. On behalf of the committed team of both full-time and casual staff who teach in the Industrial Design program at UNSW, I congratulate them on their achievement. We look forward to hearing of their further achievements and seeing the results of their endeavours.

Stephen Ward
Head of Industrial Design Program

An exciting and at times daunting journey is nearing its end for the Industrial Design students of 2004. What lies ahead for this group of creative minds is in my view an exciting, successful and rewarding future. Their tertiary experience at UNSW has encouraged and nourished their enthusiasm for design and to their credit they have learned and mastered the skills that will take them into the next phase of their lives.

Industrial Design like no other profession is very much on the frontline as a provider of products for human interaction. Both in terms of emotional fulfilment and functional appropriateness the design solutions presented in this catalogue demonstrate an outstanding ability to provide results to any given problem. Following an intense research phase in session one the students have responded to their findings in the most professional manner, brainstorming ideas, concept development through to final three dimensional model making, their design proposals are innovative, fresh and commercially suitable.

There are some students who on top of completing their major project directed the planning of the exhibition and production of this catalogue. This not only displayed excellent project management skills but also admirable dedication. Acknowledgement also must go to the supervisors; Kelly Freeman, Andrew Fowkes, Christian Tietz and Jonathan Talbot who guided and inspired the students to perform at their very best.

This graduate catalogue is a fitting testament to the ability of each of the Industrial Design students and I am confident that their contribution to the world of Design will be significant. I would like to sincerely congratulate the Industrial Design students of 2004 on achieving this important milestone and wish them all the very best for the future.

Berto Pandolfo
Industrial Design Project Co-ordinator

Table of Contents

	LAWN GRIFFIN LawnGriffin has the ability to cover four lawn maintenance functions in one convenient system BRACKENREG, SCOTT	08		DEFINING PERSONAL SPACE Mio is a product intended to define personal space by creating moods and atmosphere with coloured lighting FU, GLORIA YAN	26
	AIKO & CO. Aiko & Co. has a dream to reach all young Asian women across the world CHAN, KITTY	10		VIKTOR TACKLE SLED This sled provides a more realistic and beneficial workout compared to conventional tackle bags GARLAND MATTHEW BRENDON JAMES	28
	oRest - FOOTREST oRest is a footrest that enables long-haul economy class passengers to exercise their leg muscles CHANG, WAYNE	12		SLIK - WATERBOARD FOR KIDS The Slik WaterBoard was designed to be a fun beach product for kids GHISAYS, ALFONSO	30
	POD Pod is designed to help couples enjoy and relearn the rituals of intimacy CHAPMAN, FIONA	14		LINX Linx is foremost a communications device which allows users to talk to one another wherever they may be in the fitness centre HO, MADELEINE	32
	CHEERS Cheers was designed for improving the relationship between adolescents and their parents CHENG, ANGELA	16		HUGGY "Huggy" challenges a child's balance and co-ordination by encouraging them to utilise their own weight in the pursuit of fun and stability KING, JANA	34
	LIV LIV is an electronic stirrer, which also serves as an alcohol monitor CHENG, SIMPSON	18		CONFORTARE Confortare is designed to facilitate active sitting LABERG, JONAS	36
	RUGBY PLAYER'S KNEE BRACE A rubber knee brace for rugby union players CRONIN, MICHAEL	20		à toi - TRAVELLING COMPANION à toi was inspired by the way individuals capture and share their travelling experiences on a solo journey LAI, SALLY WING KWAN	38
	PERSONAL SHOPPING TROLLEY The LuckyDog trolley is an ideal shopping companion for people who live relatively close to the supermarket FENG, DAVID	22		AiP AiP is a wireless LAN intranet system aimed at reducing stress for passengers waiting in airport departure areas LEE, CARMEN	40
	TOTEM Totem is an Interactive Community Notice Board for new development areas in the inner city FORWARD, MICHAEL	24		EN ROUTE en route is a hand-held device designed to bring efficiency to the shopping centre LEUNG, KAREN	42



ELEMENT

element provides cross-country skiers with drinking water produced by melting snow

LIE, ØYSTEIN

44



RULER

Downhill Mountain Bike Frame With Internal Gearbox

RUSSELL, JAMES

62



BAY STRIDER

Bay Strider is a small electric (battery powered) watercraft designed to incorporate the lifestyle characteristics of urban dwellers

LIU, MAURICE

46



R-JET - Surf Rescue Craft

The R-Jet is a jet propelled rescue craft that is suited to a variety of rescue operations

SANDERS, NATHAN

64



SEAT-EZ

SEAT-EZ aids the lone parent by converting a single stroller, specifically a lightweight collapsible/umbrella stroller into easy transportation for both the infant and weary toddler child

LOH, LEROY WEI YUAN

48



HEAD PROTECTION FOR EXTREME SNOW SPORTS

Yolk is a head protection for extreme snow sports

SCOTT, GREGORY

66



ARETHUSA: Luxury Floatation Bath

Arethusa (Are-thu-sa) is essentially a Float Bath that has been designed to provide the functions of both the Floatation Tank & the household bathtub

LORD, JAMES

50



GREENSCAPE

Greenscape is an indoor modular living wall system, designed for those who yearn to be surrounded by greenery all year long

TAM, GABRIEL

68



SOUND-IT-OUT

.....Chinese Learning Device

This learning device concentrates on learning the language of Chinese as it's the most widely spoken language outside English

LU, ANTHONY

52



M-COOK - Kitchen toolbox

M-cook is a new kitchenware range that is specifically designed to target male Australians

SIN EE, WANG

70



MUSO

The Muso is a music station that allows the consumer to browse through what the music store and industry has to offer

MAGLARAS, CHRISTINA

54

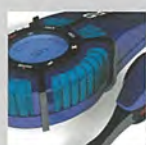


TEMPO

Tempo is a musical game for both vision impaired and sighted people

WARBURTON, ADAM

72



S.H.A.R.D

SHARD is a 2-way radio set designed to assist bicycle officers conduct their duties more effectively

MAAROF, IZZUDDIN

56



MUSIC BANK

Music Bank is essentially a kiosk, connected to massive record company databases

WEBSTER, DANNY

74



AMBIENT INTELLIGENT HOME CONTROLLER (living icons)

When our home merges with the computer and becomes a living environment

NASH, DOUGLAS

58



CAR PARK BUDDY

Car Park Buddy is a handheld device that helps users to easily spot their car within a car park, no matter where it's parked

WONG, KAM TO

76



ARACHNI

Arachni is an innovative covering system which cut by more than half the general maintenance required on the boat

POZNIAK, DHANI

60



OFFICE SCREEN DIVIDER

Forma office screen divider evokes creativity at work; encourages communication and promotes individualization

WU, FLORENCE

78

PRODUCT DEBRIEFING >



oRest is a footrest that enables long-haul economy class passengers to exercise their leg muscles with rolling and tapping actions. Medical experts consider both actions helpful in pumping blood back to heart, thereby preventing Deep Vein Thrombosis (DVT) as well as relieving pains caused by fluid shifts in the lower body.

The design has two rollers in the middle, and two pedals on either side with bumps that help massage foot muscles.

The footrest is connected to the seat with aluminium alloy bars on the sides. The bars allow the footrest to be folded away and to adjust the height for varying leg length.

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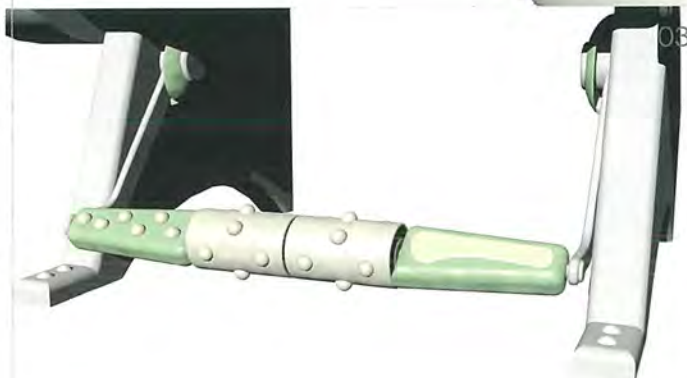
01 Synthetic rubber inside enables the rollers to deform by 10mm at any angle and provide counter forces when tapping.

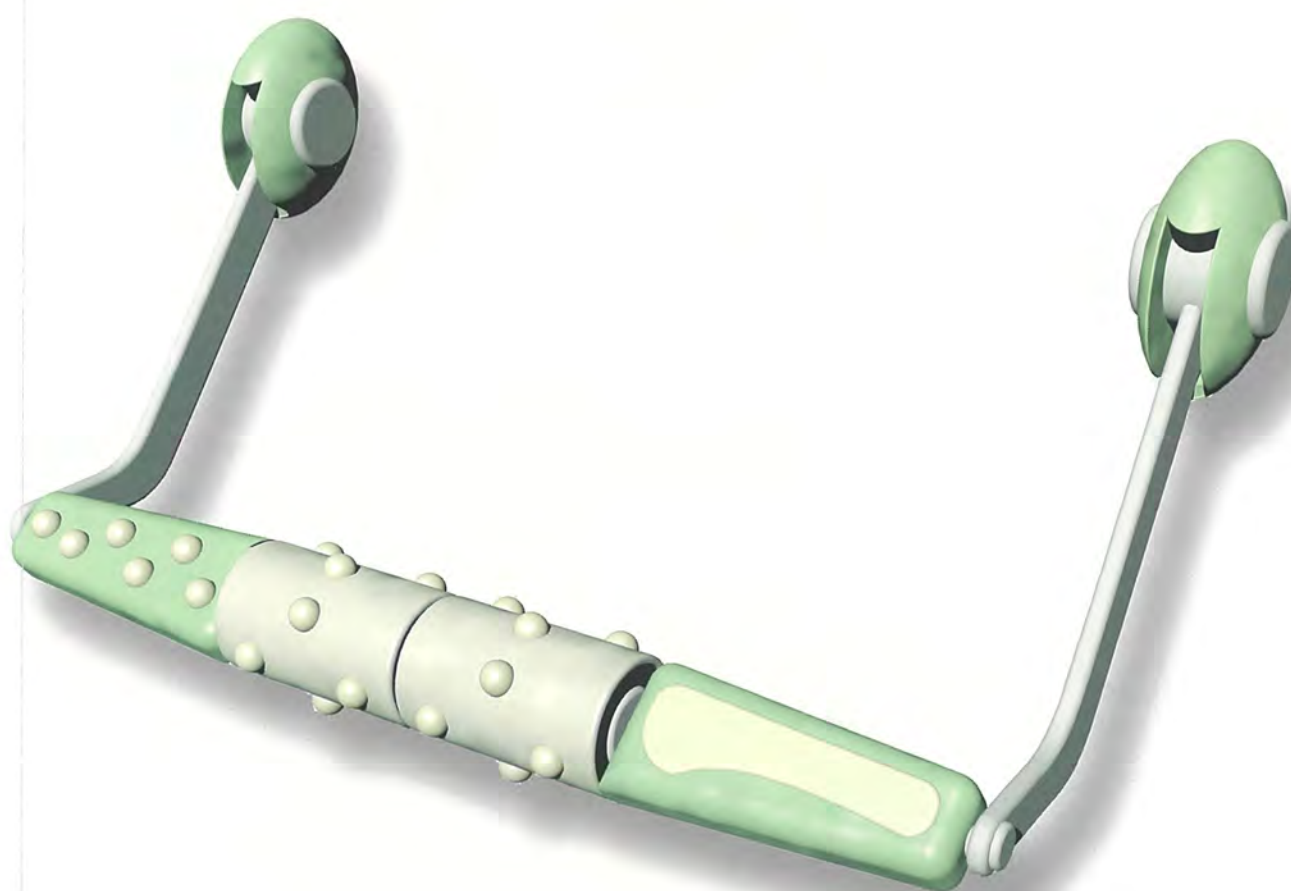


02 Through the friction provided by the rubber pedals on both sides, passengers can clench and unclench their toes.



03 All parts are ergonomically designed and can be assembled and installed easily within the cabin.





					synthetic rubber
					polycarbonate
 injection molding	 400 x 450 x 80	 travel			HD polypropylene
					aluminium alloy
manufacturing process	dimensions (mm)	product category			materials

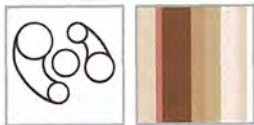


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 PRODUCT DEBRIEFING >

Pod evolved out of research into the lives of people who have experienced serious disability, and the changes that subsequently occurred in their lives, in terms of mobility, emotions and in particular relationships. Adapting to a new body with different capabilities, loss of touch and heat sensation, changed roles within a relationship and many other factors result in couples often having intimacy and sexual issues to resolve. Such problems require relearning the process of togetherness, through exploration of touch, sensation, massage and so on.

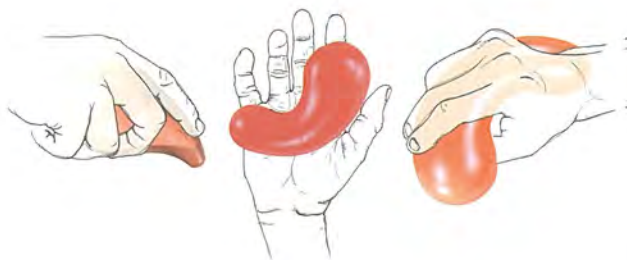
Pod is designed to help couples enjoy and relearn the rituals of intimacy and to overcome the issues of low body-confidence, and self-esteem that often follow disability. This process is encouraged through the use of the three objects in order, the massage oil / lotion dispenser, the heated massager, and the vibrator. All three are ergonomically suited to be easily grasped and held in various ways when in play, and sit in their charging pod when in rest. Most importantly, this product is designed to break the typical aesthetic of both the clinical medical aids which are abundantly found in the homes of people with disabilities, and the overtly tacky products that are produced and sold by the adult industry. Pod aims to bring the often taboo issue of sexuality out as an important and integral part of every human's life, regardless of their physical ability.



The pod recharges the objects when they are not in use through inductive charging, allowing them to be completely sealed with no metal contact points.

02

Smooth rounded shapes are easily grasped by hands of low strength, and allow for a variety of uses.



03

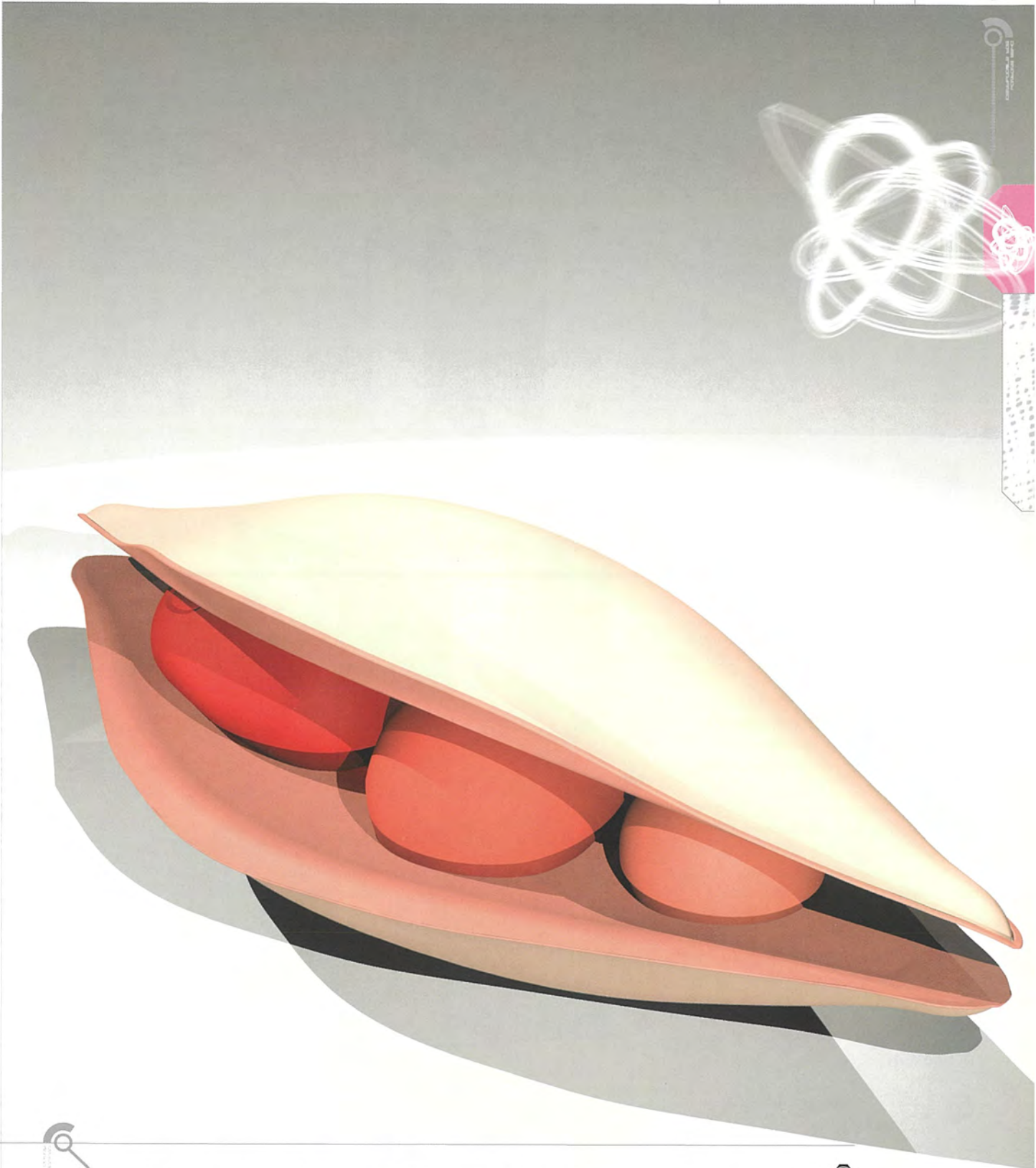
The silicon moulded lining of the pod acts as a flexible hinge, is easily cleaned, and allows easy and safe opening and shutting of the ceramic case.





POD >

manufacturing process	dimensions (mm)	product category	materials
 slip-cast ceramic shell	 405 x 110 x 182	 Objects for intimacy and play	 ceramic
injection mouldings			silicon
			ABS



PRODUCT DEBRIEFING >



'Cheers' was designed for improving the relationship between adolescents and their parents.

Adolescents are difficult to manage. They are particularly self-centred and strongly affected by peer pressure. Hence the tendency to engage in arguments with their parents which weakens their familial relationships.

After the study of narcissism and adolescence, 'Cheers' was designed to fulfil their desire to catch others' attentions. Nevertheless, it encourages them to share and treasure their family relationships.

Cheers is not simply a mirror, it is also a camera and a digital photo album. Users may take pictures of themselves by looking into the mirror and the shots will then be displayed on the OLED behind the uniquely made mirror, which is reflective on the brighter side, and completely transparent on the darker side.

With 'Cheers', more memories are brought into the family. It helps to bring the family together through understanding, sharing and appreciation. The name 'Cheers' means to express thanks and happiness, and that is exactly the aim of the product.

CONTACT DETAILS >

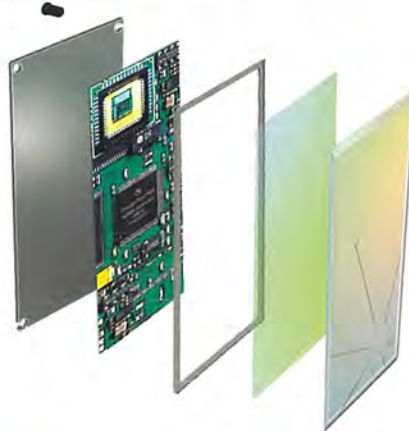


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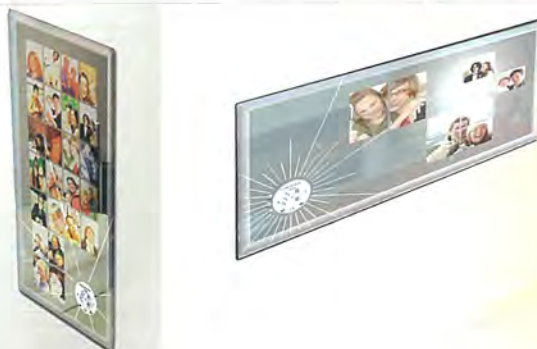
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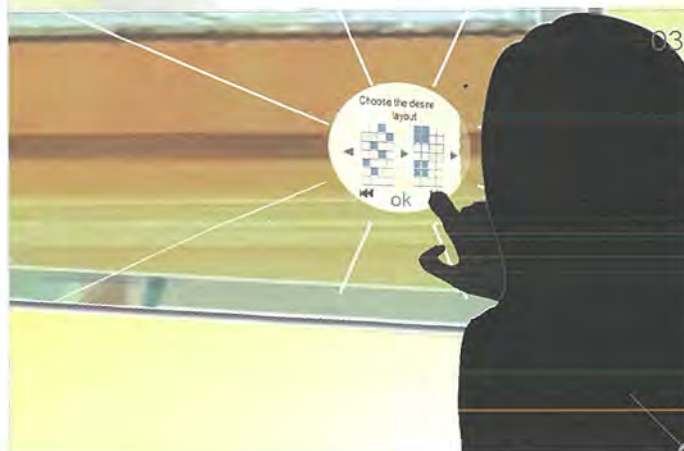
01 'Cheers' is made up of layers of aluminium, circuitry, half-silvered film and glass. Since the OLED does not need any back light, 'Cheers' can be as thin as 1cm.

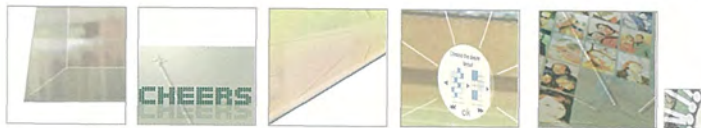


02 It can also be mounted on a wall either vertically or horizontally. The images will be rotated to the correct direction automatically by the smart sensor.



03 The computer interface located at the corner allows the users to set the timer, delete pictures, choose the desired layout and to choose how the images to be shown—one by one in sequence or all shown as tiny images at the same time.





	welding			glass	
				aluminium	
	laser cutting		500 x 1000 x 10		home accessories
	manufacturing process		dimensions (mm)		half-silvered film
					materials



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 PRODUCT DEBRIEFING >

In Australia, the number of young women consuming alcohol is rapidly increasing. This growing trend presents risks, both inherent and from the surroundings, to young females enjoying their drinks. These include indulging in binge drinking or being unwittingly offered drinks that have been spiked. These risks are further magnified when they consume alcohol in public places. Although there are many contributing factors, one way of minimising these risks is to promote responsible drinking habits amongst this group.

LIV aims to do this through an enjoyable user-product interaction. LIV is an electronic stirrer, which also serves as an alcohol monitor. It glows when activated, giving the user feedback on how much alcohol she is consuming while she stirs her drink. Its organic shape and customisable covers make it an ideal accessory for any night out. Compact and chic, LIV fuses technology, form and function to help young women stay on top of things

Ergonomics



01 The rubber casing is interchangeable and comes in a variety of colours and patterns to suit any individual's moods and preferences.

02 LIV lights up in five different colours to indicate varying alcohol levels. A truly colourful experience.

03 It takes only three seconds for the sensor to calculate the alcohol content of any drink and classify it according to the five pre-programmed ranges of alcohol content.

Technology

Image in Actual Size

manufacturing process	dimensions (mm)	product category	materials
 injection molding	 130 x 30 x 12	 personal care product	 electrical components
ultrasonic welding			polycarbonate

LIV





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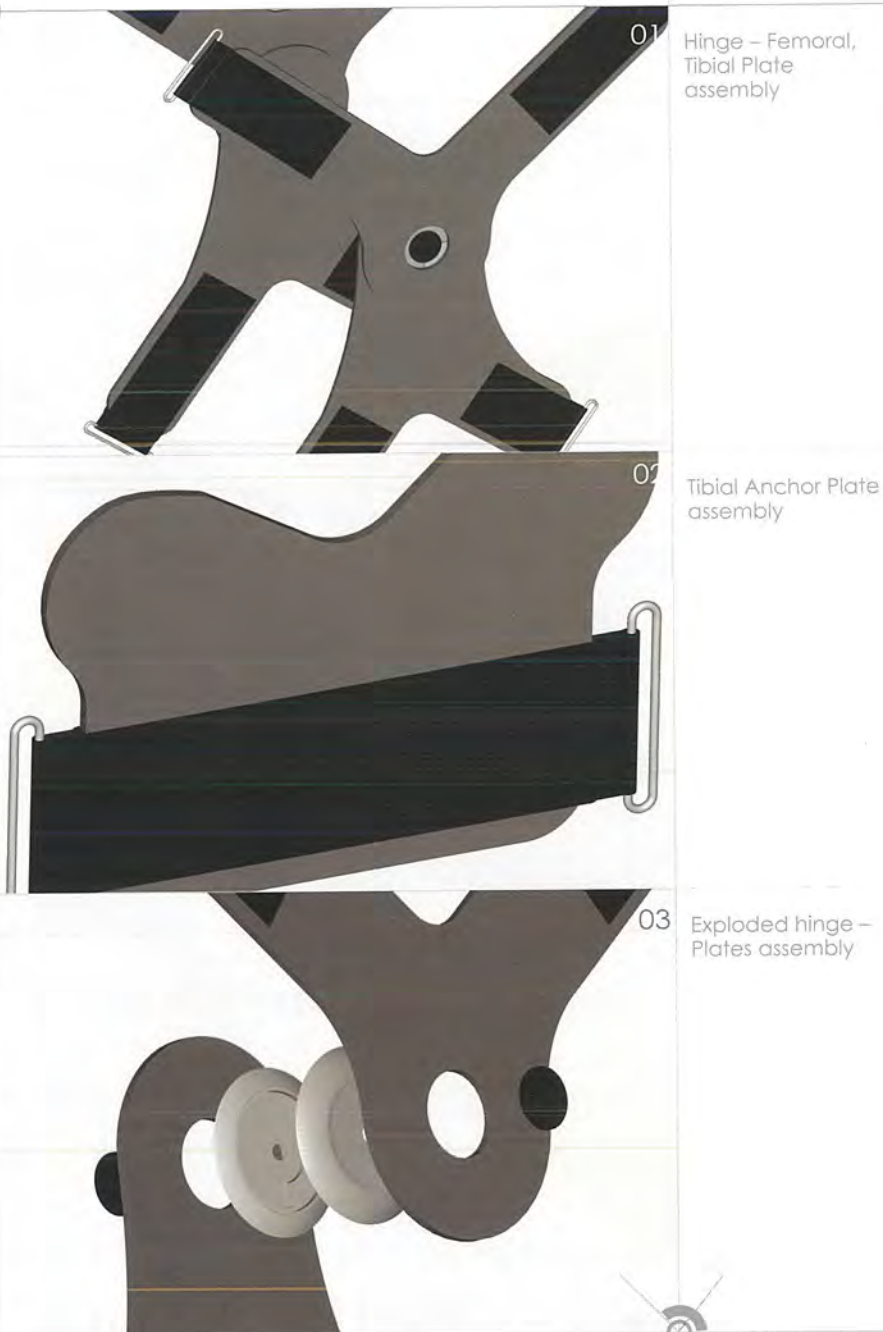
 PRODUCT DEBRIEFING >

Sport is fundamental to the Australian way of life. Whether as participant or supporter, sport touches many of us in some way. Participation levels and professionalism vary widely across the population and this variation in commitment leads to a variety of different issues.

There are many advantages to participating in sports, however there are risks associated with most sporting ventures. The most absolute of these is the debilitating potential sport may have on the human body. Full contact sports have always seen the most severe of injuries. No matter what physical, or contact, sport you play, you're always at risk of sustaining an injury.

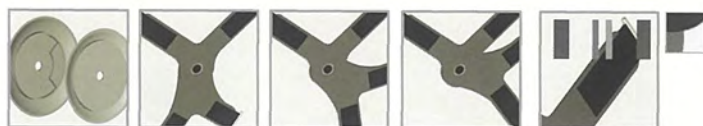
Rugby Union and Rugby League see a high incidence of injury to different parts of the body. Knee injuries are extremely common to participants, suffered at training and during play. Both Rugby Union and Rugby League see many participants sidelined for varying lengths of time due to different knee injuries. Knee injuries can lead to many different problems for the individual, including long term suspensions or the potential cessation of their playing career.

The primary aim of this project is to develop an economically attainable solution that can be worn on the field to prevent reoccurring knee injuries.



RUGBY KNEE BRACE >

manufacturing process	dimensions (mm)	product category	materials
 injection molding	 various	 sports knee brace	 deproteinized natural rubber
rubber forming			nylon webbing
sewing			polypropylene
			velcro



PRODUCT DEBRIEFING >



With the convenience of modern day transport most people choose to go shopping by car for its comfort and efficiency but at cost to the environment. There is increasing public awareness in the problems of plastic bags and high petrol prices pointing towards the need for a well designed grocery carrying device.

The LuckyDog trolley is an ideal shopping companion for people who live relatively close to the supermarket/ major grocery stores (between 100m to 1500m) or for people who don't have access to a cars. It uses a collapsible A-frame structure which makes it extremely portable for its generous grocery carrying capacity (42L).

It is designed to encourage people to walk to grocery stores for healthier lifestyle and a better environment. It folds into a cylindrical shape which can be carried like a back pack or wheeled. Stylistically it breaks away from the traditional static shaped personal shopping trolley by introducing a more dynamic form.

CONTACT DETAILS >



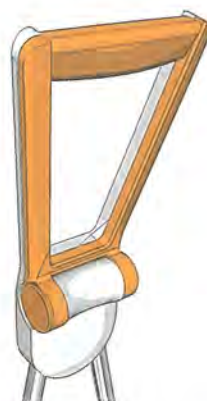
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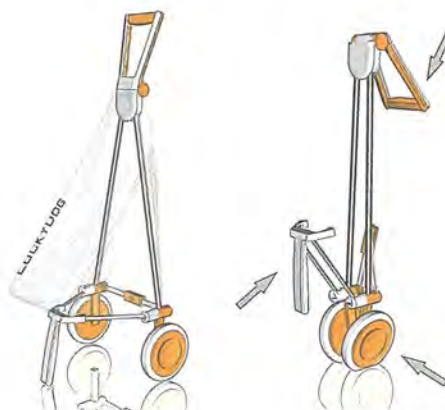
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01 Ergonomic handle which can be folded for portability and storage.



02 Main structure folds into a compact cylindrical shape



03 The folded unobtrusive trolley could be either carried like a backpack or wheeled on the ground.





	injection molding		320 x 280 x 930		mobile storage		high impact polypropylene
	manufacturing process		dimensions (mm)		product category		aluminium
							materials

PRODUCT DEBRIEFING >



In the next 30 years, 70 per cent of the rising population will be accommodated in existing urban areas. Much of this accommodation is being provided in the form of high rise apartment villages built on old industrial sites. Creating a sense of community in these new areas is a considerable challenge, especially when there are not often corner stores or pubs, and all residents are new to the area and don't often come into contact with their neighbours.

Totem is an Interactive Community Notice Board for such new development areas in the inner city. Local businesses and cultural venues pay to advertise on the notice board, in order to pay for the machine's running and maintenance costs, and make it free for the general public to use. People can search through sections under local gigs, restaurants, art and cultural events, classes and tuition, and general council notices whilst also being able to post for sale, wanted and personal notices.

Totem acts as a meeting place for locals and encourages local culture and civic entertainment.

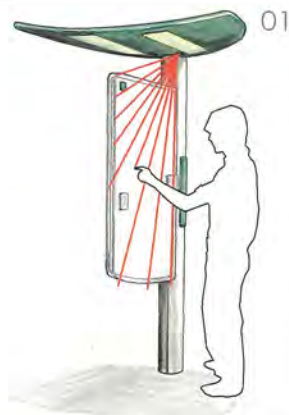
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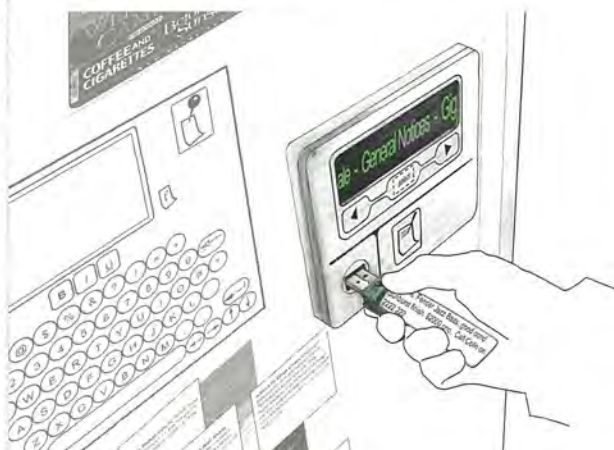
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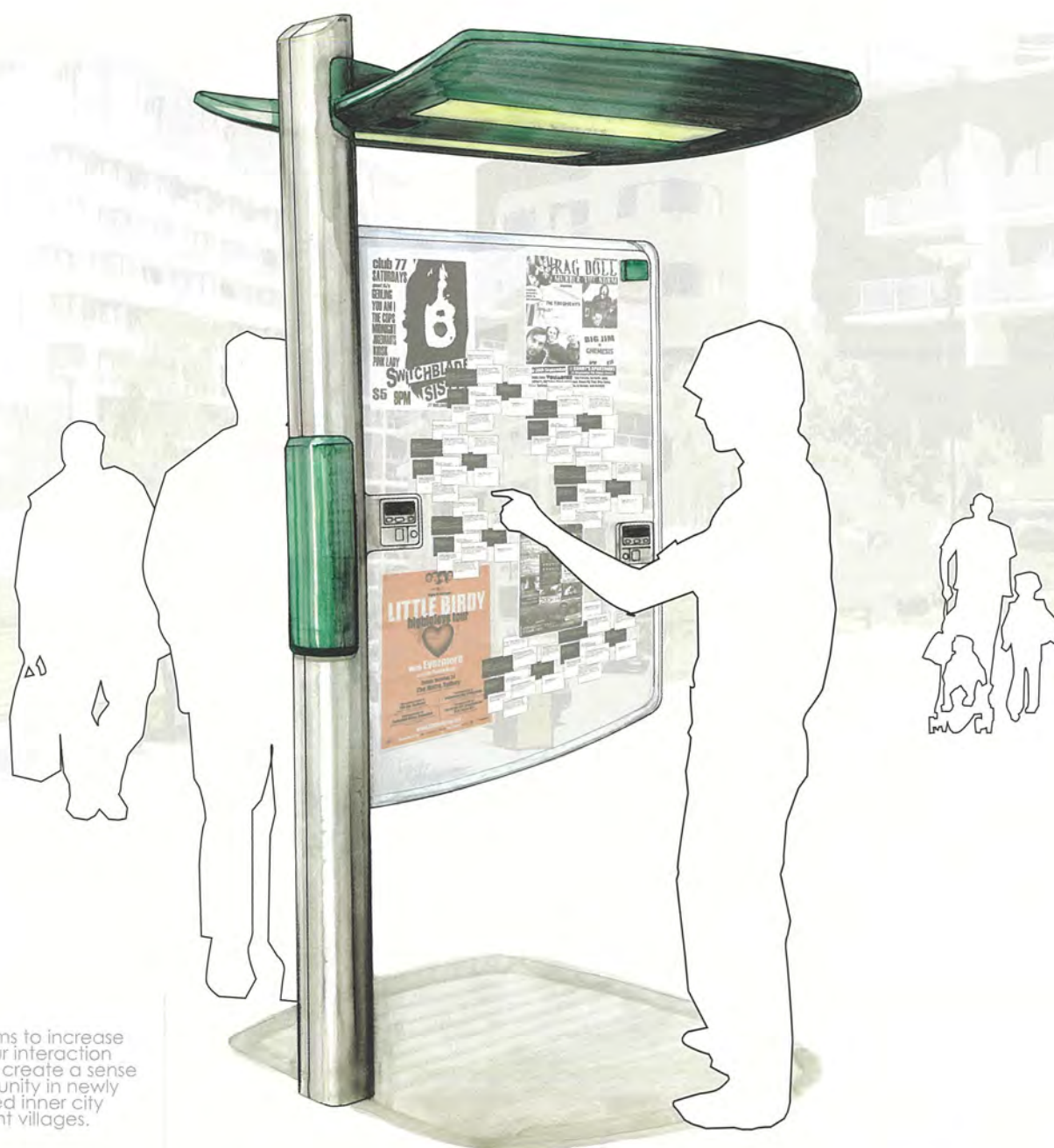
01 A laser range finder turns the display into a touch screen at low expense, whilst the colour E-ink displays keep running costs low.



02 A camera is mounted in totem to deter vandals. Images from the camera are layered over the top of each other as a form of artistic surveillance and act as a background image for the notice board.



03 People can either post messages using Totem's interface, or purchase a Totem USB tag that allows them to compose more detailed messages on their home computer before posting them, and save listed messages as reminders for later.



Totem aims to increase neighbour interaction and help create a sense of community in newly developed inner city apartment villages.

extrusion		urban renewal site developers	ABS
rotational moulding	2600 x 1330 x 1540	apartment body corporates	aluminium
manufacturing process	dimensions (mm)	market	materials

PRODUCT DEBRIEFING >



People living together, especially couples, may share every inch of a house and have no individual private space. Mio is a product intended to define personal space by creating moods and atmosphere with coloured lighting, dividing space conceptually. The definition of space is dependent on the spread of coloured light within an area. Users would associate colours with moods, hence the colours evoke different feelings and emotions. It is the difference in colour and atmosphere that divides one space into two.

Mio is a modular unit that allows flexibility in terms of form, functions and features. Users can be creative and build Mio into infinite arrangements. The unit is multifunctional as it can be used as a room divider, storage or seat, according to the users' interpretation.

The unit can run on an internal rechargeable battery source lasting up to 5 hours without the restriction of connecting a power cord, hence increasing the flexibility of its usage.

CONTACT DETAILS >

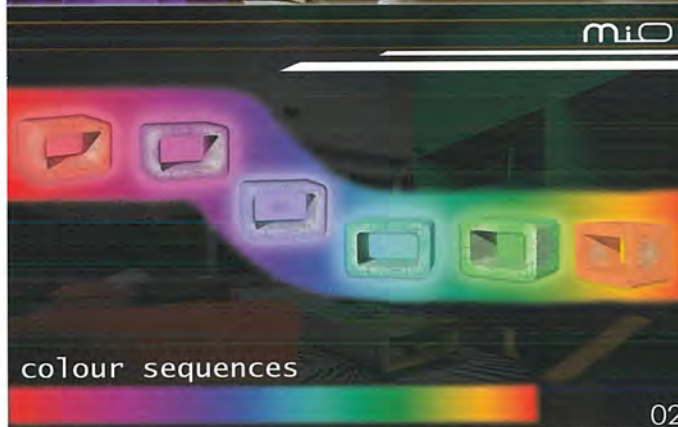


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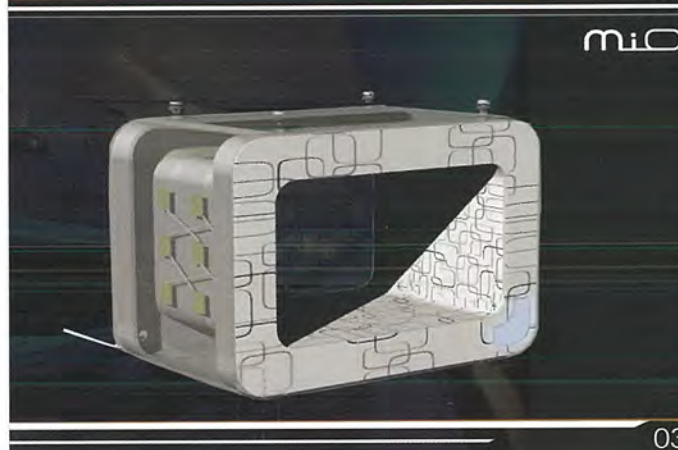
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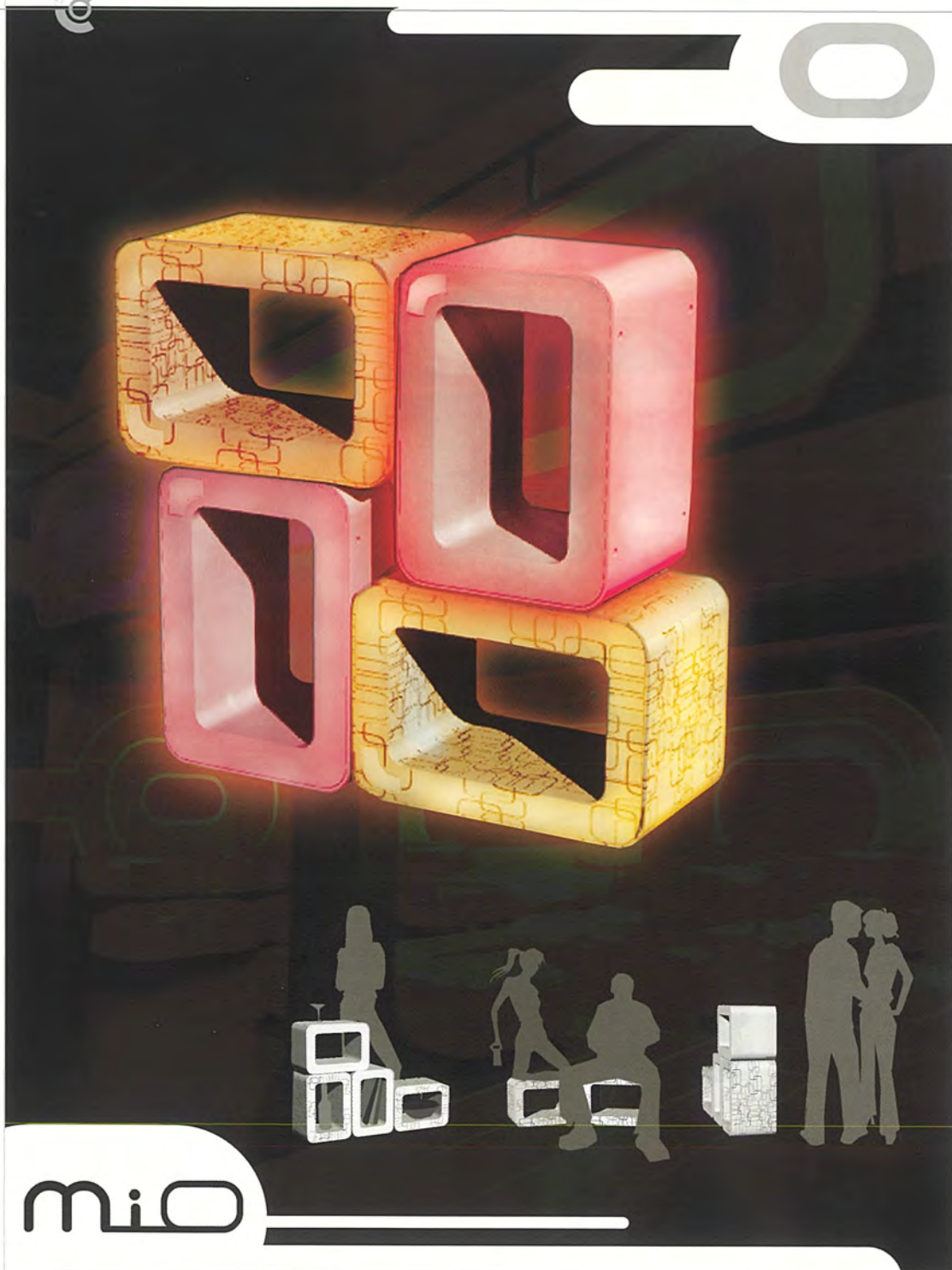
Mio fills the room with fabulous colour and different emotions.



Users could either allow colours to change according to a pre-set sequence, or select a colour by pausing the sequence.



The case is fastened with screws, allowing disassembly for maintenance.



mio

				LED module lights (Osram)			
	rotational moulding		490 ×350 × 280		lighting, furniture		polyethylene
manufacturing process		dimensions (mm)		product category		materials	



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PRODUCT DEBRIEFING >

The water is an integral part of growing up for many Australian children. The Slic WaterBoard was designed to be a fun beach product for kids aged 4 to 8 years. It is a recreational product that helps the adult and the child to bond by increasing their interaction.

A 5-metre long leash is provided to allow an adult to drag the child on the board along the shoreline. This is a fun activity for the child that encourages adults to exercise. The aim of the product is to promote outdoor and alternative activities for kids, while increasing the amount of time spent with children at the beach.

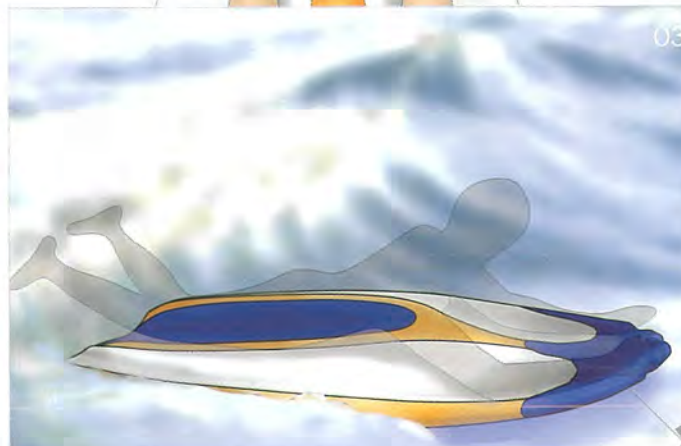


01 As the adult runs the child is pulled and skims along the water's edge



02

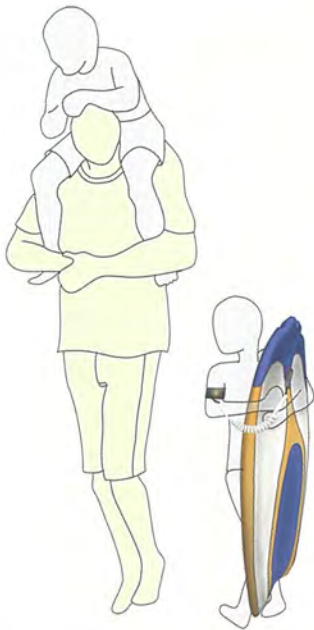
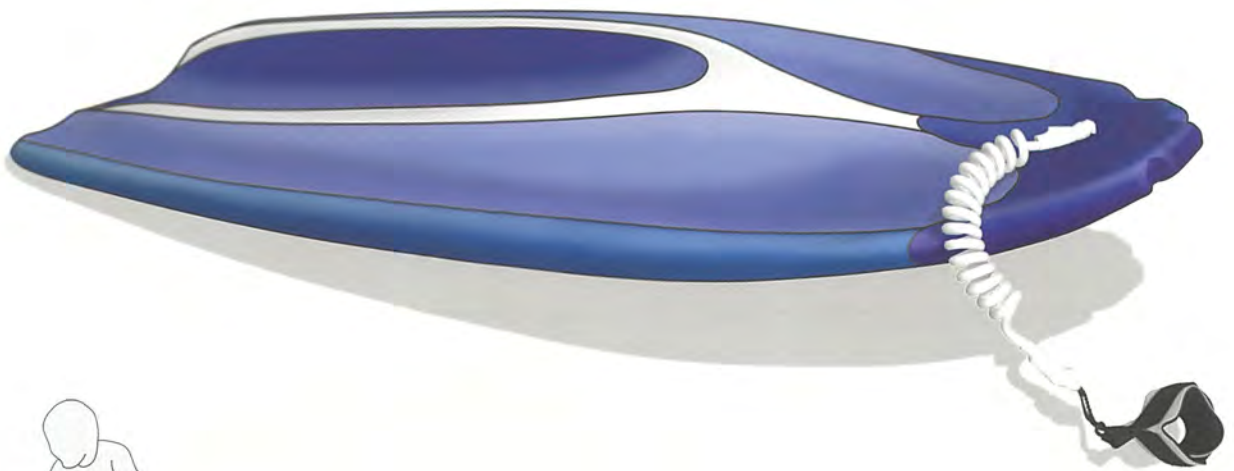
The front of the board provides ergonomic gripping positions that are safe and comfortable for the child.



03

Slic's upper body and elbow support features make body boarding a safer beach activity

manufacturing process	dimensions (mm)	product category	materials
 injection molding heat lamination extrusion	 460 x 900 x 90	 water sports	 duelttec EPP m-lon 8lb PE HDPP urethane





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PRODUCT DEBRIEFING >

Many women go to the gym with friends for social reasons. It is a place to catch up on friends' lives. However, if one friend was to walk on the treadmill, while another was lifting weights on the other side of the gym, communication is not easy.

Linx is foremost a communications device which allows users to talk to one another wherever they may be in the fitness centre. It is part of the gym network, playing music, broadcasting general and personal information, facilitating group training programs and acting as an identification device to allow access to specific spaces within the gym.



01 All interface elements are accessible with one hand, allowing ease of use during high movement activity.



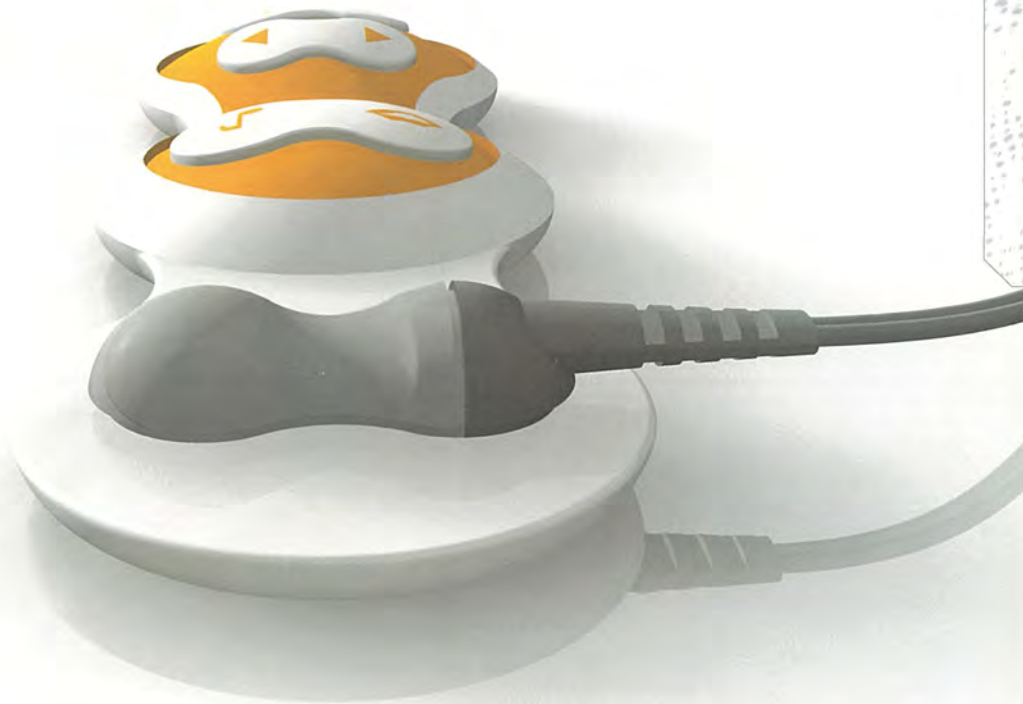
02 The smooth rounded shape is inspired by the female form.



03 Linx is attached to the gym user's top by weaving it through cuts specifically placed on the singlets or t-shirts.



manufacturing process	dimensions (mm)	product category	materials
 pressure formed	 104 x 34 x 11	 female fitness centre users	 siliconised foam electronic components elektex (conductive textile)



PRODUCT DEBRIEFING >



Children need to develop their social and physical skills at a young age. Some of the key issues 3-6 year olds are faced with are sharing, problem solving and communication with their peers. They begin to interact more with others and learn to cooperate and play together.

The two identical halves of "huggy" encourage children to share both objects and experiences with each other. It can be used as a static piece of furniture, or turned into a game that promotes movement and helps develop creativity.

"Huggy" challenges a child's balance and co-ordination by encouraging them to utilise their own weight in the pursuit of fun and stability. Assembling the two parts is a team effort and a puzzle to resolve.

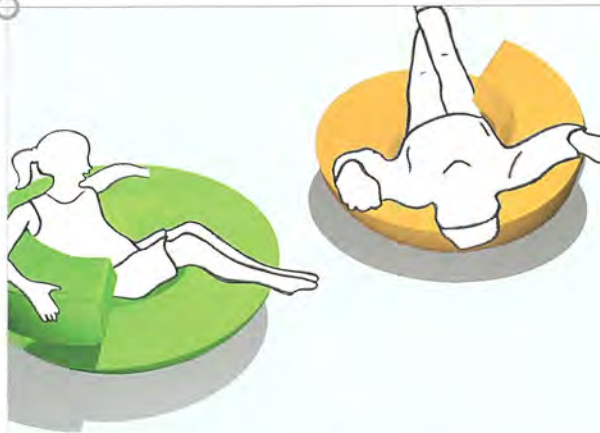
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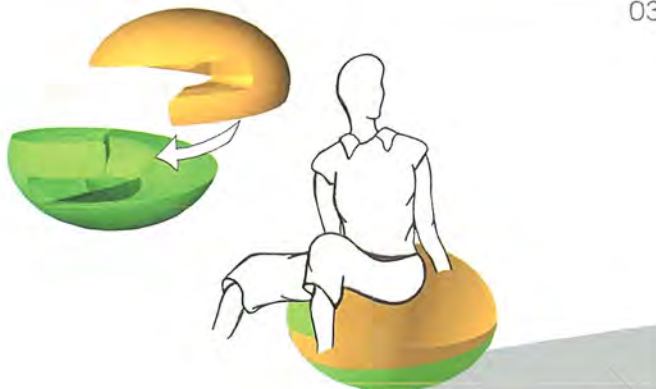
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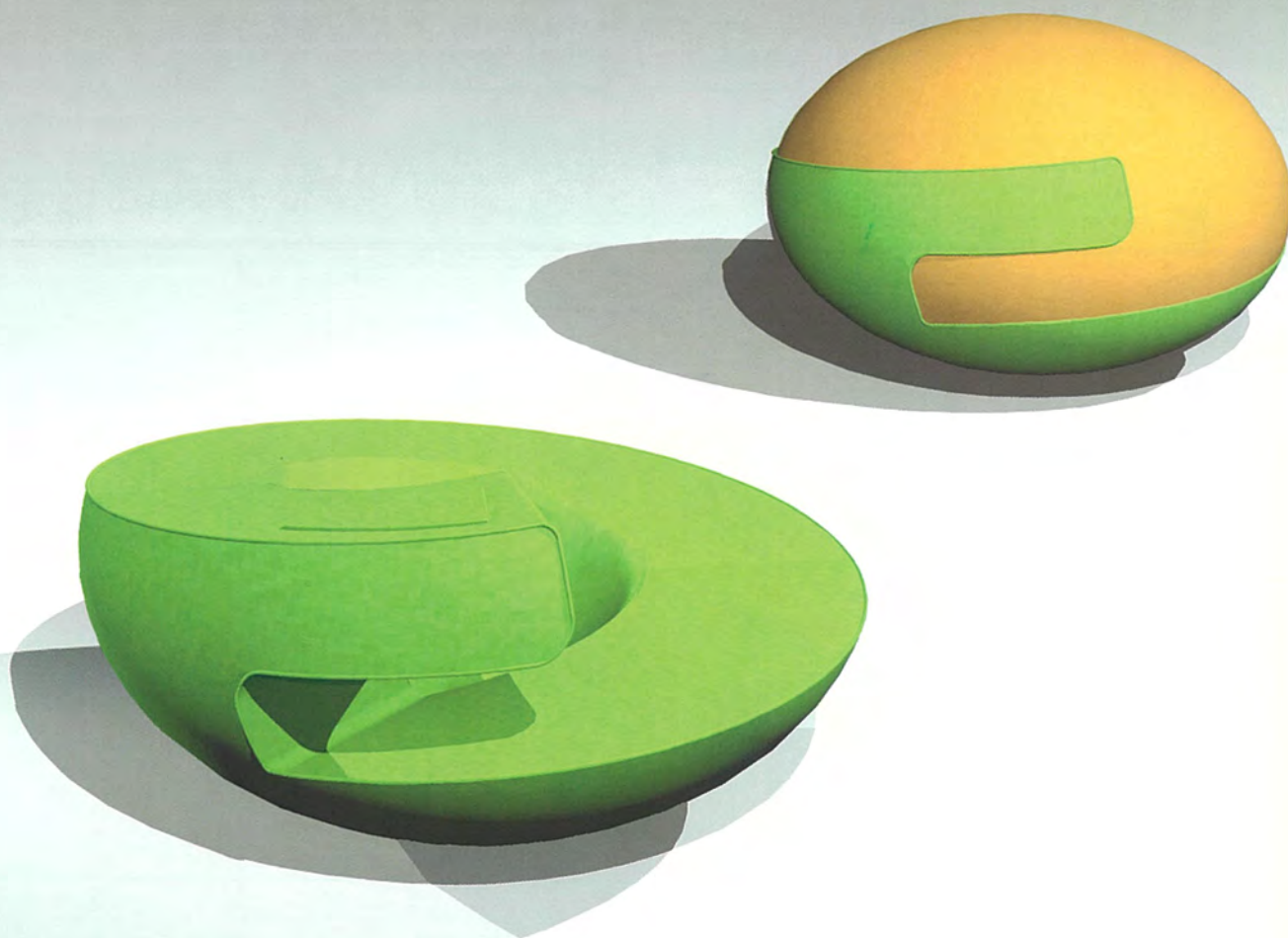
01 The rounded shape of "huggy" encourages movement and play in rocking and spinning motions



02 Kids can use the hard surface on the arm as a place to draw or rest a book



03 The two halves link together to save space, and can be used as a seat by adults



	rotational moulding		620 x 620 x 440		3 – 6 year olds	wool	
						polypropylene	
	manufacturing process		dimensions (mm)		market	foam	
						materials	



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 PRODUCT DEBRIEFING >

Comfort has its roots in Latin Confortare, meaning to strengthen. It is only in recent times comfort has come to mean 'sloth'.

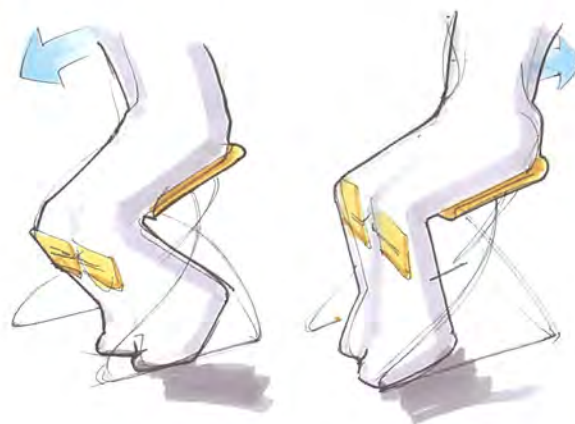
Many people have lives that prevent them from being physically active – but that does not mean their bodies don't need to move.

Confortare is designed to facilitate active sitting. It is not the chair's responsibility to keep the user upright, it's their own. In the long term, this strengthens the back, and gives the user a feeling of vitality. A kneeling chair opens the angle between the legs and the torso, allowing the spine to retain the shape it has when a person is standing up, and makes it easy to keep a straight back. This prevents the dreaded 'C-slump' so detrimental to a healthy posture.

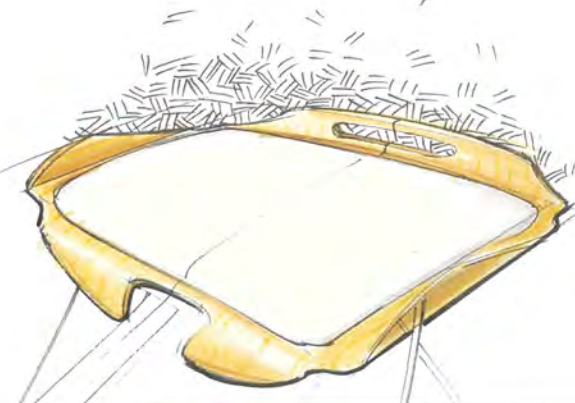
Confortare is designed to allow a variety of seating postures. The flexible frame permits the seat and knee supports to follow the user, thus encouraging frequent movement.

Confortare - for vigour's sake.

Note: please check <http://jonaslaberg.com> for the final version of this chair.



01



02



03

manufacturing process	dimensions (mm)	product category	materials
ply moulding	530 x 600 x 620	casual seating	steel tube
tube bending			technogel
machining			aluminium



**DESIGN NOT FINALISED
AT TIME OF PRINTING**

please check jonaslaberg.com
in Jan 05 for final version



 PRODUCT DEBRIEFING >



The product à toi was inspired by the way individuals capture and share their travelling experiences on a solo journey. Purchasing and sending postcard has been a traditional way for sharing experiences, however it lacks personal emotions and feelings. à toi promotes the idea that capturing and sharing should be a more in-depth process than just a photography image.

This product allows individuals to personalise and customise their own travelling experiences on a plastic postcard with the items that they have collected along the journey. For example, tickets, passes, brochures, materials and others memorable items can all be part of each postcard, representing different emotions, feelings and experiences. These experiences will only be captured once, which results in each postcard being unique. The top layer of each postcard provides areas that allow the sender or the receiver to feel the textures of the items, bringing their experiences a step closer to reality.

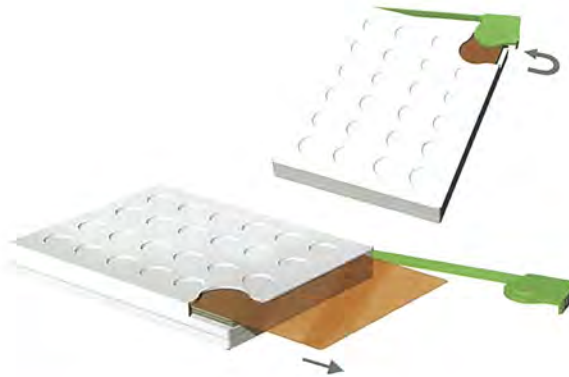
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01 12 blank postcards are stored at the back of the box with a flip cap. The front casing is made out of transparent rubber which allows the texture and design of the finish postcard to customise the appearances of the box.

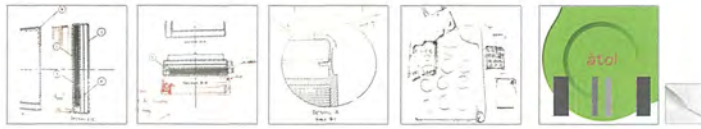


02 Postcards are made out of polypropylene with a layer of self adhesive plastic for securing and protecting the items. Different colours are available.



03 The middle compartment allows for storage of items collected along the journey which may be used in creating the postcards. It also includes an oil based pen for the user to write his or her message on the back of postcard.





	injection molding		120 x 160 x 30		travel gift product		polypropylene	
	manufacturing process		dimensions (mm)		product category		materials	

PRODUCT DEBRIEFING >



"en route" is a hand-held device designed to bring efficiency to the shopping centre by navigating and displaying previous transactions made within the stores.

This concept brings the benefits of online shopping to the physical shopping environment. Online shopping has its limitations and is still perceived with scepticism by many of us. "en route" makes the physical shopping complex a more user friendly, time-saving form of recreation. By incorporating wireless Bluetooth technology links to every store, the device makes finding a store less frustrating and more enjoyable.

For enjoyment and convenience, "en route" works within the Hands-free shopping system provided in some major shopping malls. The Hands-free shopping system has porters to carry your bags for you and take them to the service desk for your collection at the end of the day. "en route" allows transactions made in each store to be displayed as well providing information on the best buys and special promotions available in centre.

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01 The scroll ball acts as a means of navigating through the simple interface. To go back or forward to the next page, simply scroll left or right then press the ball.

02 "en route" can be personalised so that different shopping complexes can have different cases.

03 "en route" allows user to wear it however they like, around the neck, wrapped around the wrist or just put into a pocket, the options are limitless due to its lightweight and compact nature.



 injection molding	 110 x 40 x 40	 hand-held device	polypropylene aluminium	
manufacturing process	dimensions (mm)	product category	materials	

PRODUCT DEBRIEFING >



A snowfield is a desert. Water consumed while camping in the snow must either be brought or produced by melting ice and snow. Bringing water for more than one day is inconvenient and melting snow and ice consumes fuel and a lot of time.

Proposed is a product that provides cross-country skiers with drinking water produced by melting snow using the excess heat in their exhaled breath.

The product's key components are a heat exchanger, a container for compacting and melting snow, a bladder for keeping the water and a mask for capturing and ducting the exhaled air to the heat exchanger as well as providing a mouth-piece from which to drink from.

User benefits are: increased performance, shorter recovery times, elimination of the dangers of dehydration, time and fuel savings.

CONTACT DETAILS >



- 1
- 2
- 3
- 01 1 Open pack
- 2 take out the snow container
- 3 fill it up with snow
- 4
- 5
- 6
- 02 4 invert the snow compartments lid and use it to compact the snow
- 5 place the snow container back in the pack
- 6 place the mask over the mouth, warm breath will start to melt the snow

mask assembly

air inhaled through one-way valves



warm exhaled air

drinking water

snow container

cold air escaping

melt water drain

warm air entering



- 03 Via a system of one-way valves the air travels through the assembly to a heat exchanger sitting in the bottom of the snow container, the snow melts from the heat that the warm air gives off and drains into a reservoir

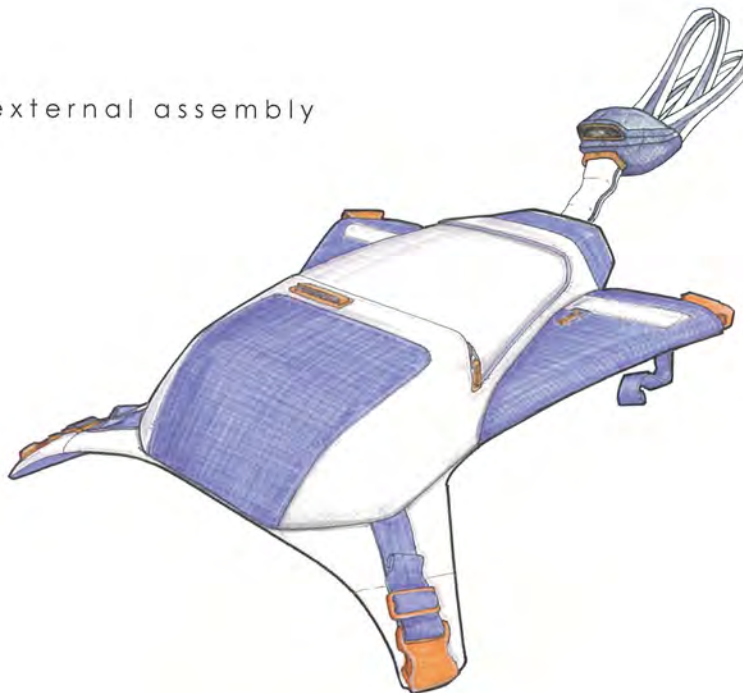
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external assembly



internal assembly



die casting				lexan	
machine sewn				silicon	
 injection molding	 1220 x 60 x 80	 camping/outdoor equipment	 cordura		
manufacturing process	dimensions (mm)	product category	materials		

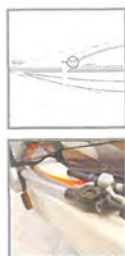


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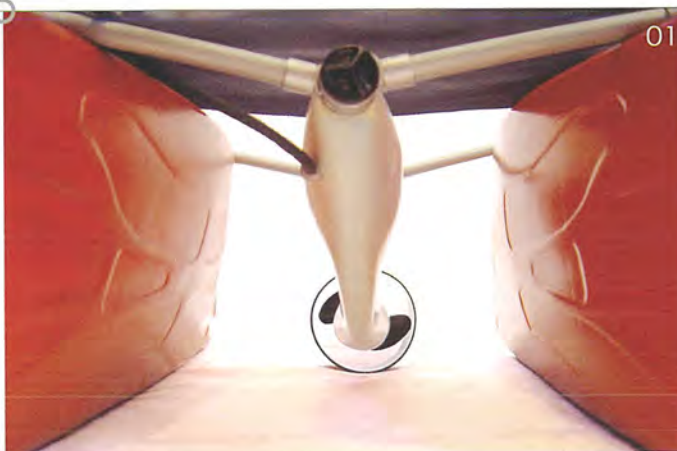
CONTACT DETAILS >



PRODUCT DEBRIEFING >

Bay Strider is a small electric (battery powered) watercraft designed to incorporate the lifestyle characteristics of urban dwellers. Small enough to fit into a hatchback car yet large enough to accommodate two passengers, Bay Strider does not need additional mounting systems for transportation to and from launch sites. Each hull is composed of a rigid PVC outer shell welded to a semi-flexible PVC inner shell with an inflatable PVC bladder on the inside. Its unique semi-flexible membrane system allows for a collapsible hull that also has rigidity for hydrodynamic efficiency and stability. Stability is enhanced by its wide stance and centrally located centre of gravity.

Quiet and environmentally unobtrusive, Bay Strider is suitable for exploring small waterways and sheltered harbour environments. Seating is adjustable to allow for a reclined or upright posture.



01 Electrical component housing and inner shells



02 Collapsed Bay Strider

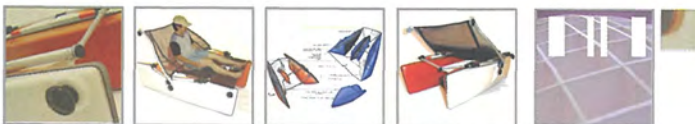


03 With user and in environment

BAY STRIDER RECREATIONAL WATERCRAFT >

manufacturing process	dimensions (mm)	product category	materials
 rotational moulding	 1800 x 1350 open	 Recreational Watercraft	 PVC (Rigid and flexible)
			TPVC (thermoplastic elastomer hinge)
			aluminium
			polypropylene mesh

The electric Bay Strider collapses to fit into a hatchback and can accommodate 2 people.



PRODUCT DEBRIEFING >



Taking young children for outings can be quite a handful, especially when the parent is alone. While the infant is seated in a stroller, the mobile and active older child gradually tires, requiring parental attention. Double/tandem strollers are designed to transport two children; however they are relatively large in size making manageability difficult for a lone parent, particularly a mother.

SEAT-EZ aids the lone parent by converting a single stroller, specifically a lightweight collapsible/umbrella stroller into easy transportation for both the infant and weary toddler child. Designed to be used in the urban environment, SEAT-EZ offers an optional seat for the second child giving the parent physical control of both children.

Attached to the back legs of the stroller, SEAT-EZ folds along with the stroller as the latter opens/closes. This enables SEAT-EZ and the stroller to be easily transported together (e.g. using public transport).

With its stow-away convenience, SEAT-EZ makes outings with two children a breeze for the lone parent.

CONTACT DETAILS >

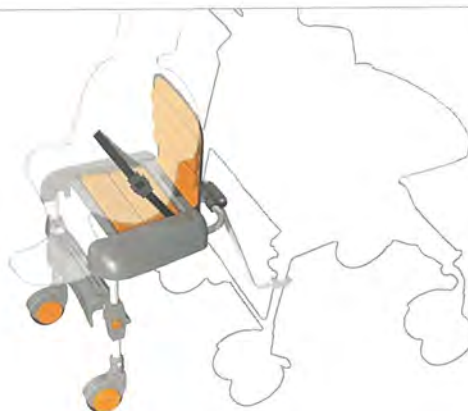


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01 COMFORT & SAFETY
Detachable foam cushions on backrest and seat help minimise impact of the ride while the seat belt secures the child.



02 ATTACHMENT MECHANISM
The central rotating hinge enables SEAT-EZ to be folded along with the stroller. Extendable attachment arms (to the stroller) can be adjusted to suit different heights without obstructing the folding of the stroller.



03 AESTHETICS
Its sleek exterior shell stows away unobtrusively when not in use, yet it opens up enticingly, appealing to the child's curiosity and imagination.





SEATez



			polyurethane foam	
	400 x 278 x 674 (unfolded)		high impact polypropylene	
injection molding	400 x 274 x 88 (folded)	stroller accessory	aluminium alloy	
manufacturing process	dimensions (mm)	product category	materials	



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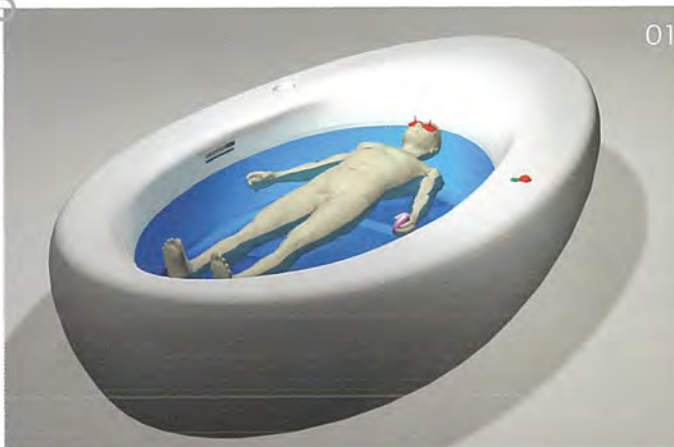


 PRODUCT DEBRIEFING >

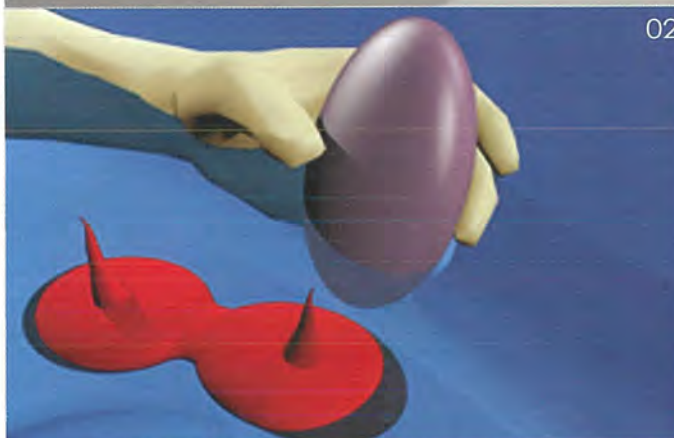
With the increasing pace of today's lifestyles, longer working hours and increasing incidents of work related stress and our continual acceptance, integration and reliance upon modern communications technologies such as television, mobile phones and the Internet; there comes an increasing need for a greater and more convenient means for relaxation. Our contemplative time is deteriorating at a rapid rate and many no longer have the time to simply do nothing.

Arethusa (Are-thu-sa) is essentially a Float Bath that has been designed to provide the functions of both the Floatation Tank & the household bathtub, both of which have been utilised as avenues for relaxation in the past. Arethusa's primary intention is to provide the user with the ultimate in relaxation & to encourage and facilitate the act of contemplation.

In such a visually dominated world, the chance to float completely weightless & in complete darkness and isolation from our outer world is a true luxury. It is here where we realise that a rest for the eyes is a rest for the mind. With Arethusa we are free to explore the depths of our inner world, helping us to build & maintain both a healthy mental, physical & spiritual wellbeing. Most importantly, Arethusa keeps one in constant contact with water – the most basic element of life.



01 The float baths primary material is Corian. A storage tank for the floating solution exists within the walls of the bath. Water temperature and flow control are all digitally controlled.

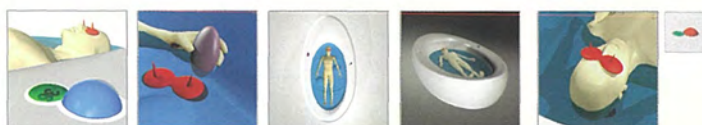
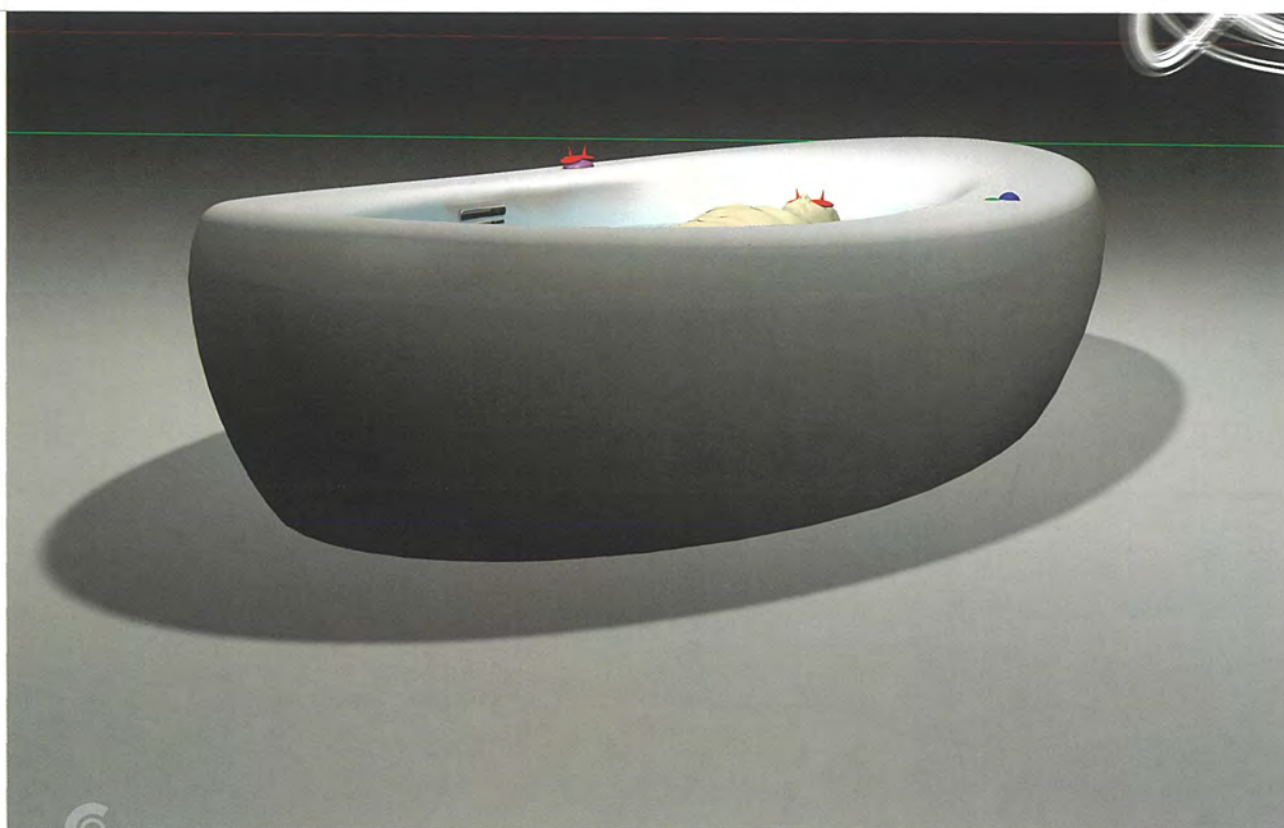


02 Many of the Float Baths functions are controlled via a waterproof remote control. The user is able to control room lighting, water temperature, heat lamp temperature and floating/bathing options with the simple push of a button.



03 Whilst floating, the user wears an eye-patch that is heated & maintained at skin temperature. This allows the user to float in total darkness, eliminating the need for an enclosed chamber that can cause problems with condensation & claustrophobia.

manufacturing process	dimensions (cm)	product category	materials
 heat formed corian	 340 x 190 x 75	 luxury floatation bath	 corian



PRODUCT DEBRIEFING >



01 To encourage children to learn more often, the parent can set a target with the knob so an incentive could be given once the target is reached.



02 The top of the device opens up like a lid to store an incentive put in by the parent. However the lid will only open when the child has reached the target.



03 A sticker incentive system has also been put into place in this device. A sticker will only be printed out if the child has reached a certain level in their learning.

Australia's population today consists of many cultures from different nationalities. However the Australian environment has made a significant impact on immigrants and as a result has lost touch with their native culture.

The retention of language is the most effective way of maintaining the most of one's culture.

This learning device concentrates on learning the language of Chinese as it's the most widely spoken language outside English. Children aged 3-6 with Chinese as their background are the target for this device. Since Chinese is a complex language the aspects of recognising characters and phonetics are incorporated using voice recognition technology. To encourage children of this age to learn a language an incentive system that can be set by the parent is built into the device. This allows parents to introduce the concept of goal setting for the child that will be essential in the near future.

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Sound-it-Out
 CHINESE LEARNING DEVICE

 injection molding	 240 x 150 x 70mm	 educational tool	 high density polyethylene	
manufacturing process	dimensions (mm)	product category	materials	

PRODUCT DEBRIEFING >



The music industry is a growing market that caters to satisfy many moments in our lives. The purchase and research of music at point of sale should be pleasurable and informative as it is what convinces one to purchase.

The Muso is a music station that allows the consumer to browse through what the music store and industry has to offer. It allows the user to search both specifically and randomly through the library of music, listen to it and at the same time view the clips available on the touch screen within it. When the consumer is satisfied and has decided upon what he or she wants to purchase, the highly intelligent Muso has a navigating system that shows where the consumer can find what he or she has chosen.

It's a room in a room...

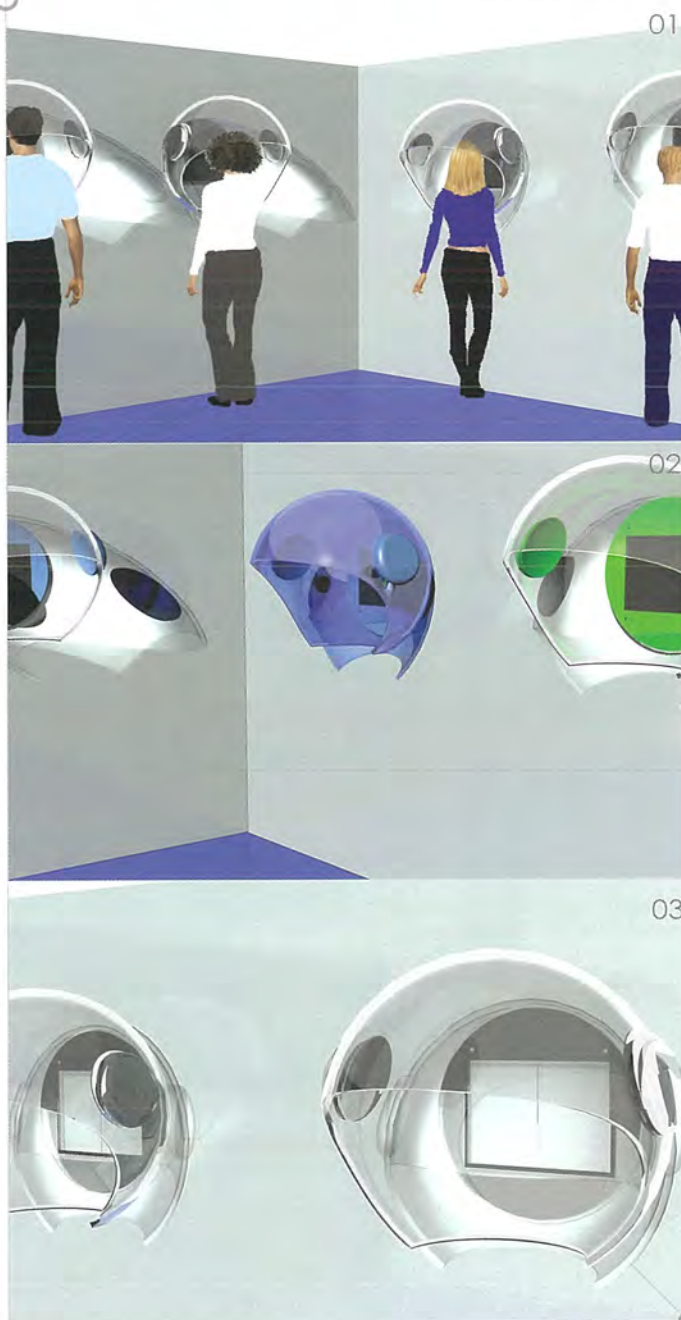
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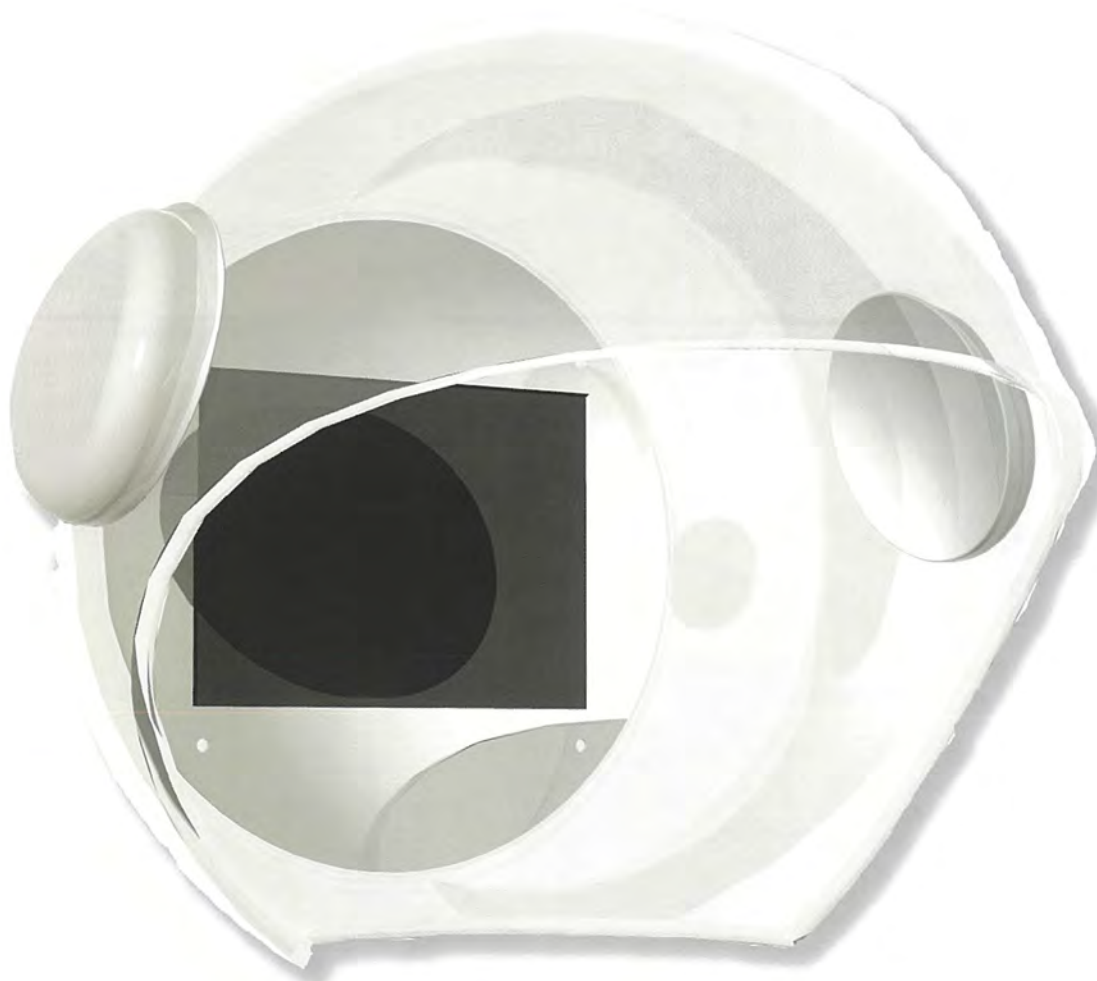
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01 Muso creates a sense of privacy within the store where one can browse through what is available whilst given the advantage of listening to it all and then finally being navigated to where what has been chosen is located.

02 Advanced touch screen technology and directional acoustics.

03 Test subjects were used when creating graphics and overall design in order to tackle usability issues and ergonomics.



 Thermoforming	 920 x 800 x 750	 Music Booth/ Retail	 Acrylic/ABS/polystyrene	
manufacturing process	dimensions (mm)	product category	materials	

PRODUCT DEBRIEFING >



Apart from the regular hazards that come with the profession, bicycle police officers face some that are more unique to their unit, and which require a modification of their attire or equipment.

The standard radio sets employed by the police force are not ideally suited to the bicycle unit. One handed riding is not the safest way of conducting your rounds. The lack of space on the bicycle also means that most of the equipment has to be mounted on the body. This also contributes to OHS risks especially when in pursuit of a suspect and responding to emergency calls. In these situations, an officer needs to be able to keep in contact with other members of the team at convenience.

SHARD is a 2-way radio set designed to assist bicycle officers conduct their duties more effectively. Its small size enables it to be mounted and positioned on the bicycle, allowing the officer to maintain radio contact without having to remove hands from the handle bar. In cases where the officer has to get off the bike, the set can be quickly clipped onto his/her belt.

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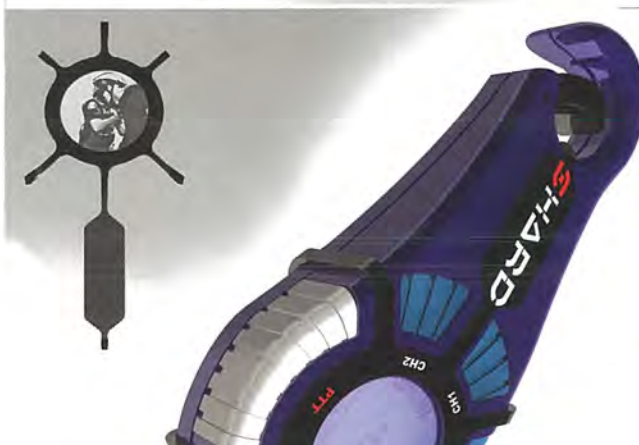
01 The set is fixed on the handlebar through a mounting bracket. This allows the officer easy access to the device while keeping both hands on the bike. The polyurethane bracket provides flex to hold the set in place.



02 Bluetooth technology eliminates cords and entanglement. The acoustic voice tube and uni-directional mike allows the earpiece to 'hover' outside of the ear to ensure comfort while not compromising sound quality.



03 When forced to conduct foot pursuit, the set can be clipped onto the officer's accouchement belt or belt strap quickly.





S.H.A.R.D.



 injection molding	main: 162 x 60 x 34		polycarbonate/ABS
manufacturing process	 headset: 75 x 33 x 16	 police bicycle unit	 polyurethane
	dimensions (mm)	market	materials

PRODUCT DEBRIEFING >



Increasingly we are seeing people spending hundreds of thousands of dollars building home networking architecture into their homes. What will Ambient intelligence bring to these homes? How will we interact with the domestic space when the environment becomes a thinking entity capable of acting autonomously? My project focuses on how material products may evolve, when much of what has traditionally been physical is integrated into the invisible framework of the home. This vision of the future sees appliances linked to a central computer or series of hubs that will create an intelligent and responsive space rather than its current passive evocation. My controller seeks to reflect this new contextual shift in the environment in a non-threatening and controlled way, to at once represent the life in the system and its diminutive role in the user/ home relationship. The animated icons represent domains that can be easily accessed through the screen and attract our attention when they need tending, but are otherwise passive reminders of the living environment.



01 Wall mounted and directly wired into the infrastructure of the home.



02 Dielectric elastomers in laminate strips are embedded into cast silicone to produce lifelike animation in the icons



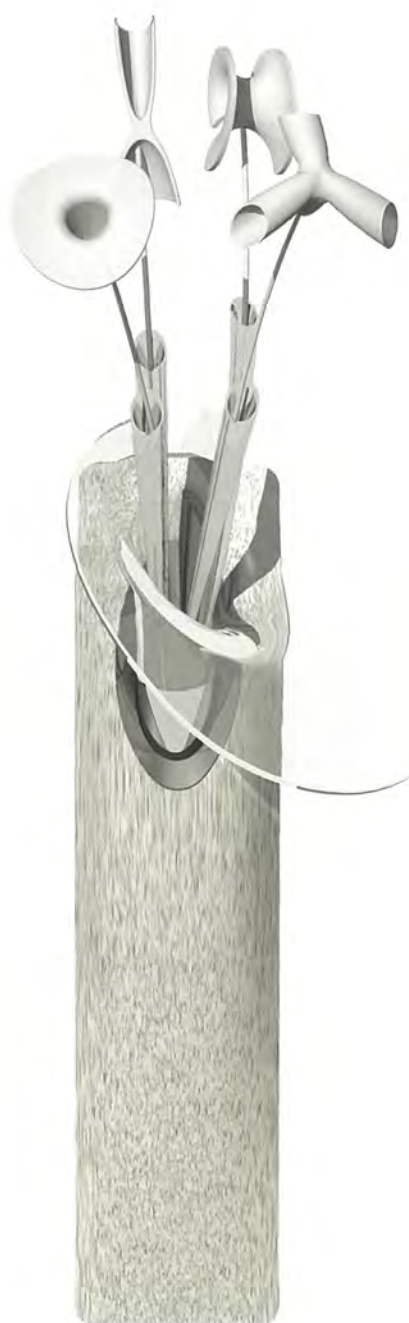
03 When an icon is touched it will illuminate the screen with its details

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Represented are
the domains of
lighting,
microclimate,
security and
utilities

spinning		silicon	
CNC milling		aluminium	
injection molding		wood laminates	
 castings	 500x280x150	 home networking	 dielectric-elastomers
manufacturing process	dimensions (mm)	product category	materials



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 PRODUCT DEBRIEFING >

The surfaces of a boat on water will deteriorate over time due to the marine environment. This deterioration of the boat's surfaces leads to a cost for the consumer. General maintenance is required in order to maintain the value of the boat.

As a boat owner, a lot of time and effort is taken to make sure a boat stays in good condition. Consistently using a boat cover will save maintenance time and costs, so more time can be spent on the water. The target market are those who own game, recreational, fishing boats, particularly those boats larger than 25' with a fly bridge. This is because when covering these boats, the bow is still left open without any protection

Technology enquiries identified current materials and manufacturing considerations in the development of the Arachni. The purpose of the project was to minimise the cost to the consumer by developing an innovative covering system which will cut by more than half the general maintenance required on the boat.



01 The Arachni is designed as a 2 in 1 package to the consumer. A Bimini with an in-built retractable cover.

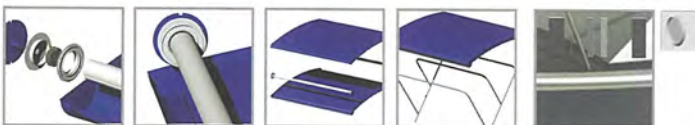
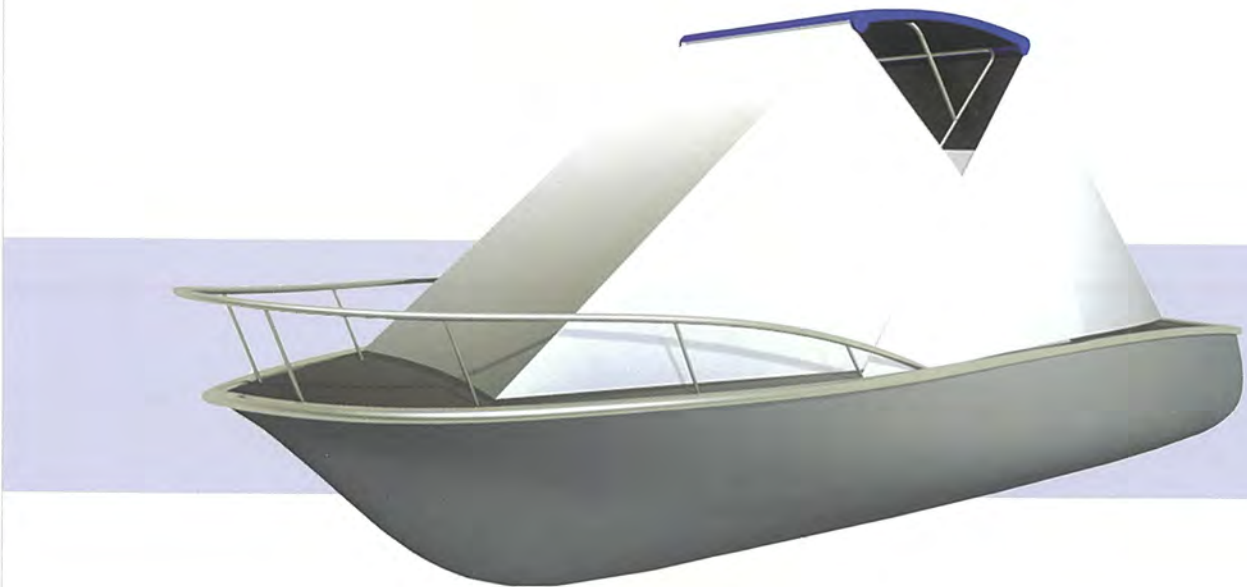


02 The visual appeal of the Arachni is simple. However, there are a substantial number of parts used in the construction of the Arachni in order for it to function.



03 The marine environment presents special considerations when choosing materials and tie-down systems. h

manufacturing process		dimensions (cm)	product category		materials
 injection molding		885 x 355 x 315	 marine cover system		stainless steel
high frequency welding					stamoid
thermoforming					PVC



 PRODUCT DEBRIEFING >



This bike frame is designed to provide a new level of reliability and performance in the field of downhill mountain bike racing. Up until now, mountain bikes have relied on gearing technology borrowed from road racing bicycles which is far too fragile and exposed for downhill racing.

This new design incorporates an 8-speed internally geared hub, acting as a gearbox, mounted in the middle of the frame.

As well as being more durable, this arrangement has many other benefits. The suspension pivot placement allows the chain tension to remain constant throughout the 229mm of suspension travel, eliminating the problems of chain tension induced suspension "bob" and chain tug during large impacts. Other benefits include better weight distribution, greater ground clearance, the ability to change gears without pedalling, reduced unsprung mass for a more sensitive suspension action and a stronger rear wheel.

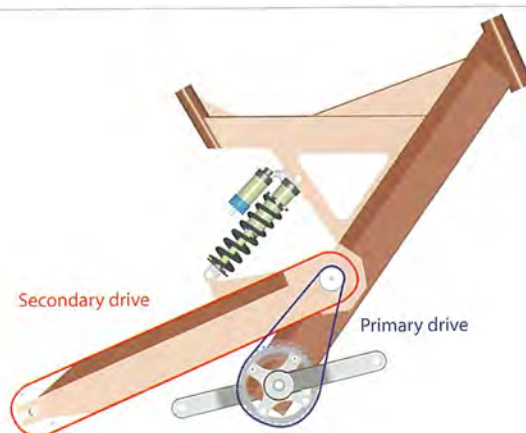
 CONTACT DETAILS >



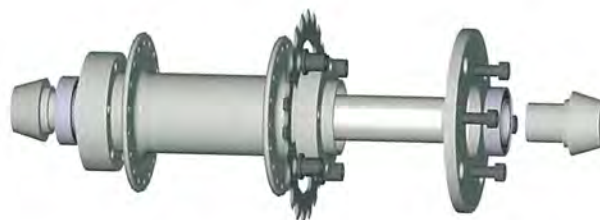
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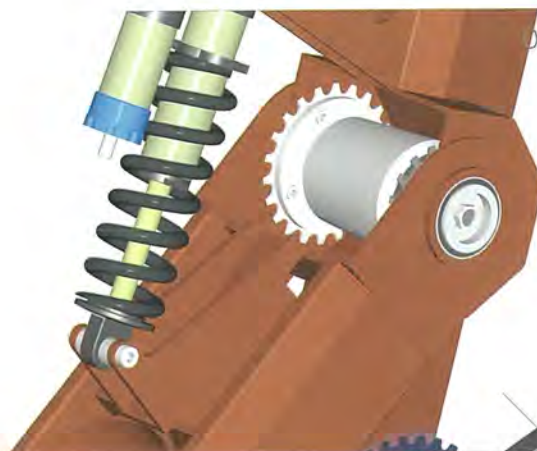
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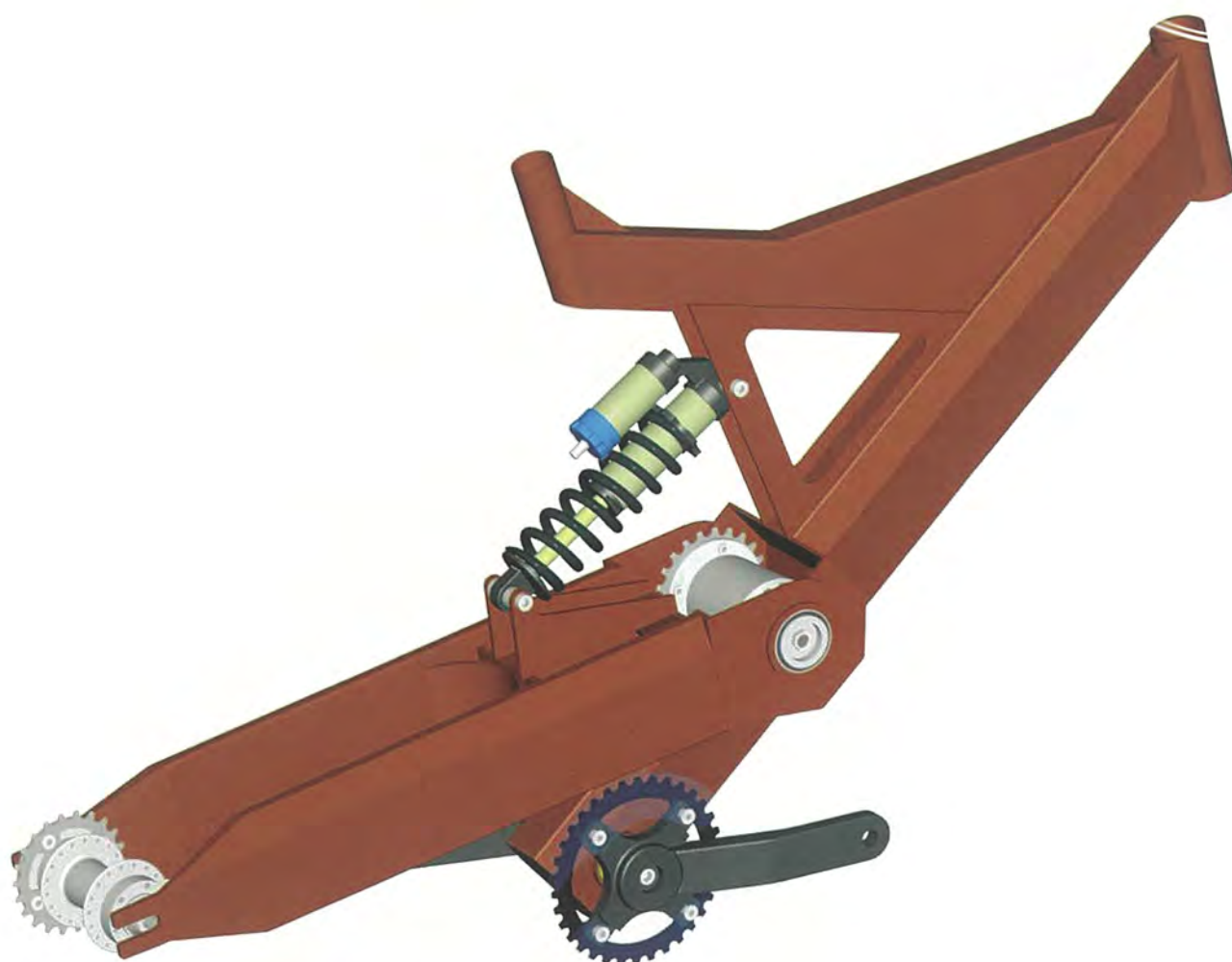
01 A primary drive chain runs from the cranks to the 8-speed gearbox on the right side. A secondary drive chain, running on the left side, then transmits power to the rear hub.



02 With gear shifting and freewheeling duties handled by the gearbox, a simple fixed gear rear hub is used, resulting in a lighter and stronger wheel.



03 The gearbox cradle also acts as the main suspension pivot, allowing the suspension to move through its stroke with no change in chain tension in either primary or secondary drive chains.



 machined aluminium pieces			4130 CroMoly Steel
 cut/bent/welded sheet steel	 1220 x 60 x 80	 sporting equipment	 6061 Aluminium
manufacturing process	dimensions (mm)	product category	materials



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 PRODUCT DEBRIEFING >

The introduction of personal watercraft (PWC) to surf life saving has created improvements in rescue operations. The speed and manoeuvrability of these craft enable quick response times and hence save lives. Through my research in this field I found that despite the mentioned advantages there are a number of issues with PWCs that limit their potential as rescue craft. These issues include the ability of one-on-one rescue, mass rescue, spinal injury rescue and the limited frequency of use.

The R-Jet is a jet propelled rescue craft that is suited to a variety of rescue operations thus creating a craft that would be more commonly used. It is operated in either a keeling or flat position allowing the operator to have direct contact with the patient. It features a removable stretcher that is compatible with helicopters, consequently eliminating the need to transfer patients with spinal injury. The stretcher also acts as a flotation device in mass rescue situations.

A single cylinder, two-stroke 330cc engine, propels the R-Jet. It runs at 45hp, providing 350 psi of thrust and speeds of up to 50km per hour.

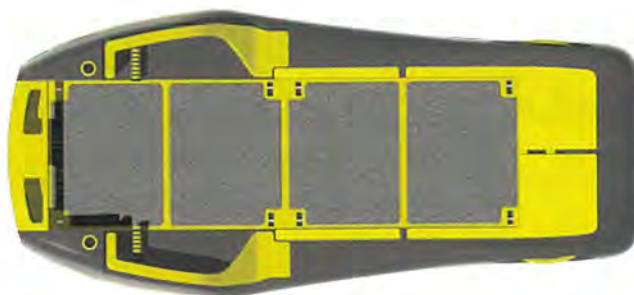
The R-Jet hull is constructed of fibreglass with Kevlar reinforcements. The stretcher is rotationally moulded from PVC.



01 Rotating control arms provide flexibility for the operator.

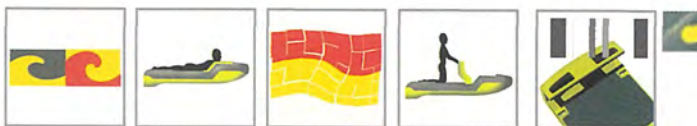
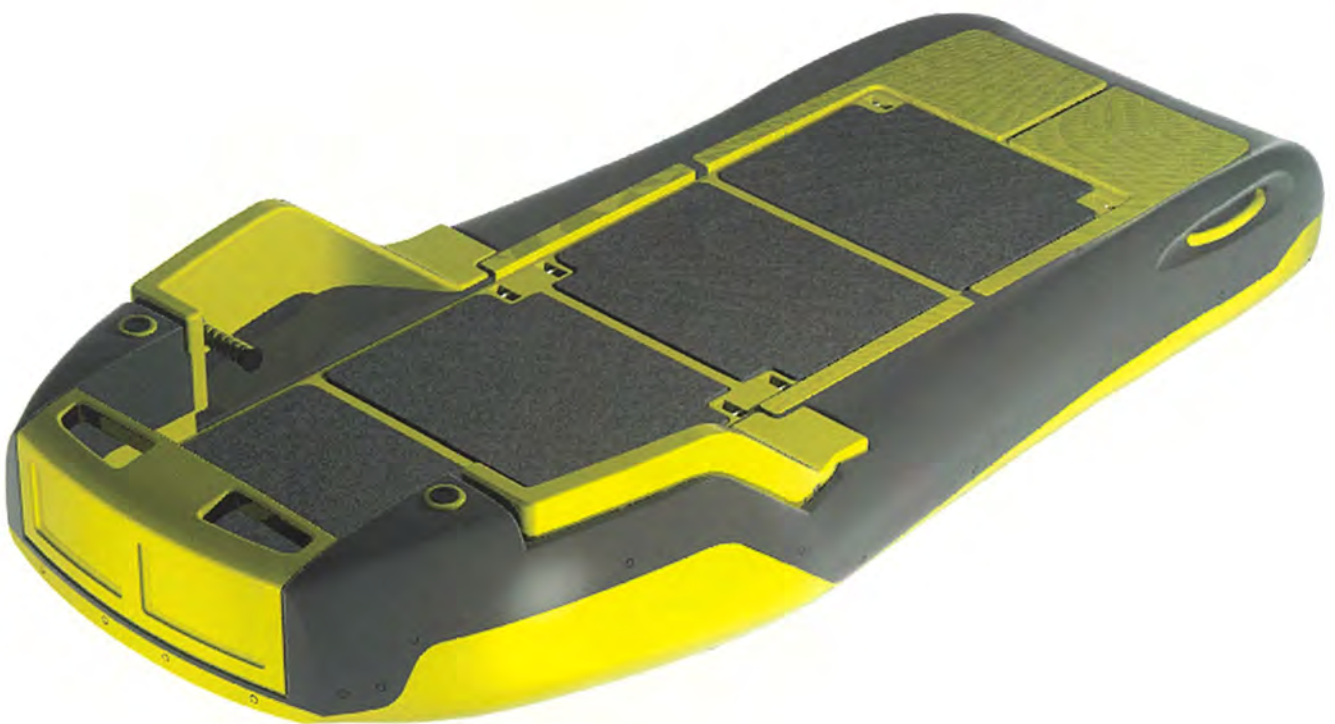


02 Removable stretcher assists in mass rescues and rescues that involve spinal injury.



03 Top view

manufacturing process	dimensions (cm)	product category	materials
 injection molding	 230 x 100 x 45	 surf rescue craft	 kevlar reinforced fibreglass





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 PRODUCT DEBRIEFING >

Issues in a hard shell

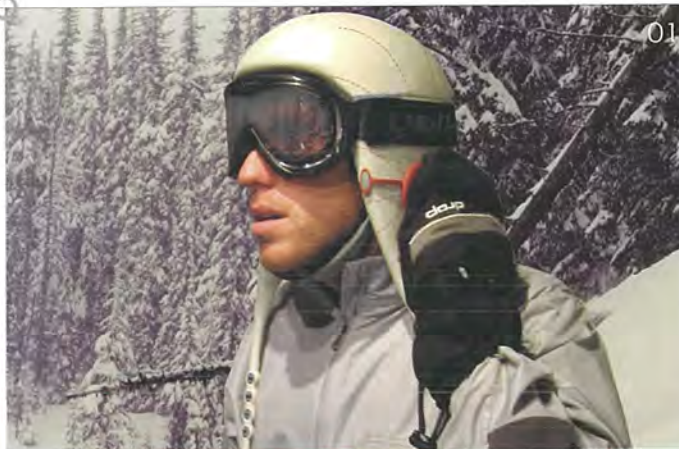
95% of snowboarders and skiers do not wear helmets, while head injury continues to be the major cause of serious injury and death on the slopes. Research has shown that young adults reject the use of helmets due to comfort, inconvenience and negative image associations.

Solution in a soft shell

'Yolk' under regular use is flexible and conformable to the user's head but when subjected to an impact it instantaneously forms a rigid shell dispersing and absorbing the energy. This is achieved utilising a semi-rigid liner and a Kevlar skin which is impregnated with a shear thickening fluid.

'Yolk' allows the user to plug in a two-way radio, music player, or mobile phone to the integrated headphones and controls thereby creating a convenient and seamless connection.

'Yolk' can be fitted with of a choice of skins which can be stretched over the liner to match the user's personal style. With similar safety standards across bike riding, inline skating and skateboarding, there are vast opportunities to develop different skins for these sports using the same liner



01

The user can connect their two way radio, music player or mobile phone into the jack.

The integrated switches, controls and receiver allows full control of the attached technology while still wearing the head protection.



02

Yolk Features:

- Brain textured liner
- Ratchet retention system
- Integrated receiver and controls
- Soft touch, electex switches
- Knitted woollen skin
- Changable skins



03

- Section view
- Kevlar, impregnated with a shear thickening fluid
 - Brack semi-rigid liner
 - Electex woven switch
 - Jack attaches to the music player, two way radio or mobile
 - Electex controls

manufacturing process	dimensions (mm)	product category	materials
 Injection moulding	 255 x 215 x 205	 Sports safety	 Liner - Brock liner (PP with a PU binder)
3D knitting			Shell - KM2 Kevlar impregnated with ethylene glycol and silica particles





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 PRODUCT DEBRIEFING >

The objective of this project is to design a set of kitchen tools that would boost men's participation in food preparation and amplify their role in domestic kitchen cooking.

M-cook is a new kitchenware range that is specifically designed to target male Australians, aged from 30s to 50s, who are well educated, high-income earners and enjoy a quality lifestyle. However, the selected consumer segment only infrequently cooks or gets involved during a meal preparation process.

The experience of workshop tools and processes was adapted during the conceptual development stage, as workshops are a multi-discipline male environment.

This approach was the first of its kind. Integrating workshop behaviours in the kitchen setting allows the male user to work confidently there, improving his performance while keeping the kitchen organized. This integration facilitates for the user a brand new perception of food preparation.

As a result, an intricate toolbox consisting of six unique kitchen tools was designed. Apparatus in M-cook consists of a ladle, fruit peeler, multifunctional-chopper, turner, grater and meat tenderiser. These tools incorporate the characteristics of workshop tools and were carefully chosen to magnify the strength advantage of men while doing kitchen work.

01 Handle design

The oversize, rugged rubber handle is ergonomically designed to fit the palm comfortably while providing powerful grip. A heavy-duty handle loop helps to attach the tool to the tool panel.



02 Tool design

Mirror-finish, 18/10 stainless steel tools can be hung or removed easily. The tool shadow panel is moulded with a different texture to indicate the proper placement of the tools.



03 Tool box design

The robustness, long life and the muscularity of hardware tools are reflected in the design of the injection moulded ABS toolbox.



manufacturing process	dimensions (mm)	product category	materials	
 injection molding	 400 x 350 x 130	 kitchenware	 ABS	
metal stamping			polypropylene	
rolling & forging			stainless steel	



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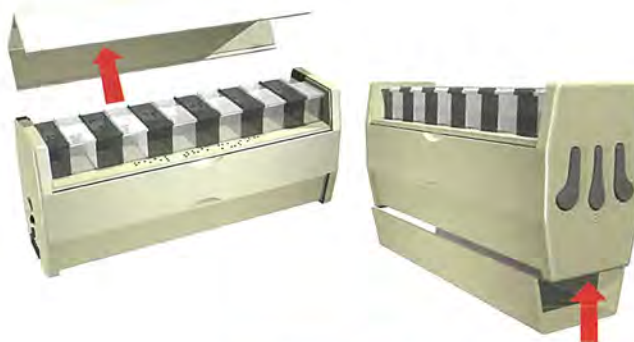
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 PRODUCT DEBRIEFING >

Tempo is a musical game for both vision impaired and sighted people. It is designed to help bridge the gap between these two groups by enabling the vision impaired to participate, unaided, in a recreational activity with sighted users. By bridging this gap, Tempo hopes to build a greater understanding about vision impairment and help change many of the disabling attitudes toward it. The game involving memory recall and auditory perception, allows the vision impaired to strengthen their remaining senses, enabling them to challenge sighted players and help counter many of the self-doubting views of the adventitiously blind. (Those who have become vision impaired). Tempo involves recreating a six to twelve note melody by modifying the pitch of a series of notes with height adjustable blocks. This provides the vision impaired with an ability to feel how music rises and falls with the tempo of a melody.



01 Remove the lid and place it underneath to reveal the musical keys.

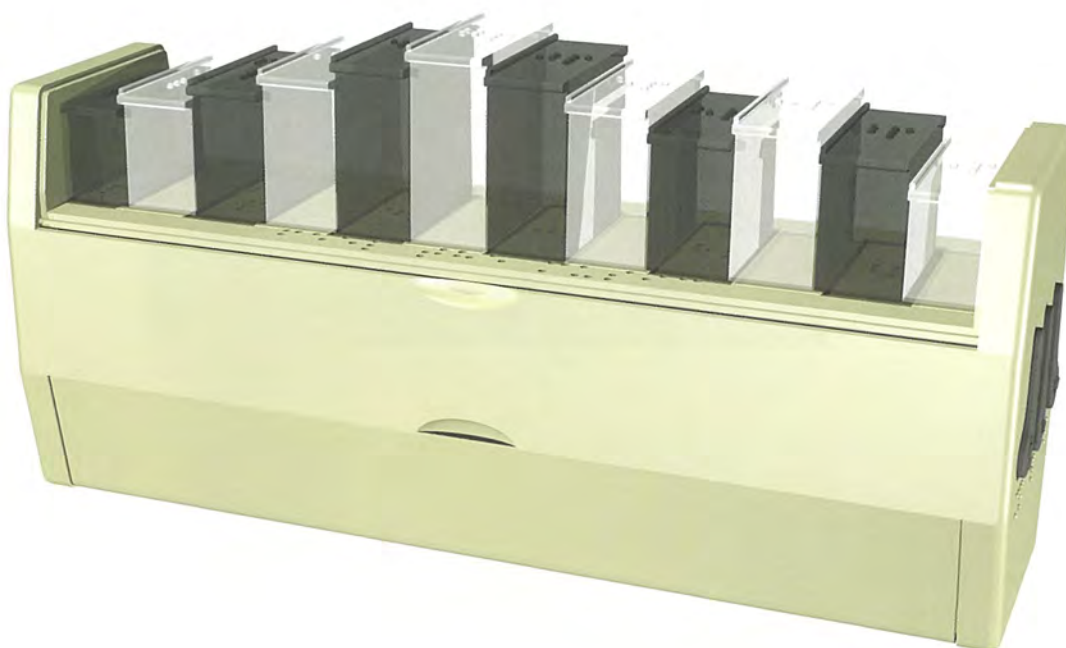
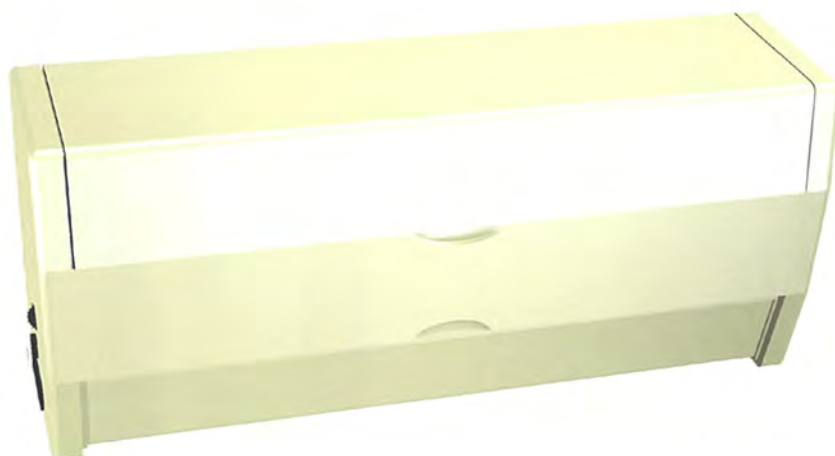


02 The user must raise each block to a height that matches the pitch of the corresponding note in the melody.



03 The three buttons allow the user to play, skip melodies or select a multiplayer option.

manufacturing process	dimensions (mm)	product category	materials
 injection molding	 158 x 45 x 68	 vision impaired musicians	 polyurethane keys acrylonitrile-butadiene-styrene (ABS)



 PRODUCT DEBRIEFING >



Music is a very important art form which has the power to instill feelings and emotions in the listener and change the way we look at things. Musicians are a group of people who really deserve their dues, yet stolen music files are circulating the internet and depriving these artists of the revenue which they need to survive in the music business. Be this as it may, one cannot ignore the convenience of digital music (eg mp3's).

Music Bank is essentially a kiosk, connected to massive record company databases to give the user the opportunity to purchase the latest and greatest in constantly updated digital music. Music is downloaded directly onto the user's personal music device, thus no materials are wasted in dispensing music.

 CONTACT DETAILS >



01 Each Music Bank kiosk has two user interfaces, allowing two users at a time.



02 Each kiosk contains two of each of the following per music bank: 15" LCD screen, slimline computer tower, credit card reader, multi-card reader (ie USB, flashcard, memory stick etc).



03 These interfaces are of different heights so as to accommodate a large spread of user heights.

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"Here we are now
Entertain us" - Kurt
Cobain 1991

extruded inner frame		stainless steel internal frame	
 hand made shell using patterns	 1220 x 60 x 80	 music retail POP	 fibreglass shell
manufacturing process	dimensions (mm)	product category	materials



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PRODUCT DEBRIEFING >

This product is a handheld device that helps users to easily spot their car within a car park, no matter where it's parked. The device also has a time reminder function to prevent the driver staying in the parking spot for longer than they should.

When the handheld device is turned on, it will receive radio signals from a transmitter located inside the vehicle. These signals are then decoded to find a bearing which will indicate where the vehicle is parked.

According to my research, there is a large population of older drivers who are more likely to have difficulty in remembering where they've parked. This device proves to be compact and simple to use, thus being ergonomically suitable.

Although this product is designed especially for the elderly driver, it also proves to be beneficial for all who may often find themselves lost within car parks!



01 The yellow LED displays the distance from the car. The red LED shows the bearing of the car.



02 The timer acts as a reminder to show how much time is left before their vehicle has to be moved.



03 As the product is targeted at older people, a buzzer is positioned at the back to provide a clearer alert signal for the elderly.

manufacturing process	dimensions (mm)	product category	materials	
 injection molding	 98 x 56 x 22mm	 car Locator	 ABS	





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 PRODUCT DEBRIEFING >

The project aim is to create a product that gives a relaxed and joyful environment in the office to help office people reduce stress resulting from both physical and psychological discomfort. Forma effectively brings more natural and relaxing attributes to the office by incorporating a fish tank and pot plants into its design.

The Forma office screen divider evokes creativity at work; encourages communication and promotes individualization. The creative solution brings people together, breaks down barriers and improves interaction between work colleagues. The screen divider adapts to work spaces of various shapes, sizes and layouts.

The dividers can be connected at angles between 90 degrees or 120 degrees to form several types of partition layout (X, Y or L layouts). It also provides horizontal extension by adding more panels or units, allowing creative planning possibilities with little restriction of workstation size and mobile space.

The screen divider's height adjustable feature and infinite increments of horizontal connection support endless planning options. The lay-in cabling and power/data accommodation make utility reconfiguration much easier.

01 Forma can be extended horizontally by adding more modules. One module contains six grids. Each unit is connected by an H-section aluminium profile. Adjustable leg height provides different planning options.



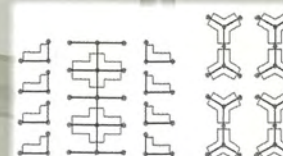
02 Natural attributes are incorporated into the design, providing four customisation features: aquarium, flower vase, pot plant and fabric.



03 Providing individualization in the office. The grid hollow structure enables access from either side to improve communication between people.



manufacturing process		dimensions (mm)	product category	materials	
	extrusion	 H1380 x W760--2000	 office furniture	 aluminium	
	drawing			textile	
				polypropylene	



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