



werk 5 digital craft

Werk 5

Werk 5 zählt zu den international führenden Unternehmen im Bereich Modellbau.

Digital Craft

Aus digitaler Planung entwickeln wir reale Modelle.

Kunden

Unsere Kunden sind Architekten und Baugesellschaften, Designer, Werbeagenturen, Künstler, Galerien und Industrie.

Spektrum

Konzeption, Beratung, Planung und Herstellung von Präsentationsmodellen, Prototypen, Kleinserien und elektronisch – interaktiv ansteuerbaren Objekten.

Technik

- CAD-CAM-Workstations
- 3D-Laser-Scanner
- 3- und 5- Achs CNC-Bearbeitungszentren
- Laserbearbeitungszentren
- 3D-Rapid-Prototyping

Kooperationen

- Interactive Scape (interaktive Oberflächen und Objekte)
- IEB (Institute of Electronic Business)
- Dupont Corian Quality Network Partner
- Zumtobel Staff
- Universitäten in Potsdam, Berlin und München
- Deutsches Architektur-Zentrum
- Pure Render

Die GRÜNDER



Dipl. Ing. Hauke Helmer
Geschäftsführer

1962 geboren in Hildesheim
1978 – 1981 Ausbildung zum Tischler
1987 – 1994 Studium an der TU Berlin FB Architektur
1994 Diplom an der TU Berlin FB Architektur

1994 – 1995 freie Mitarbeit im Architekturbüro
1995 Gründung der Werk5 Helmer Mangold Waltero GbR
2001 Gründung der Werk5 GmbH

Email helmer@werk5.com



Dipl. Ing. Ulrich Mangold
Geschäftsführer

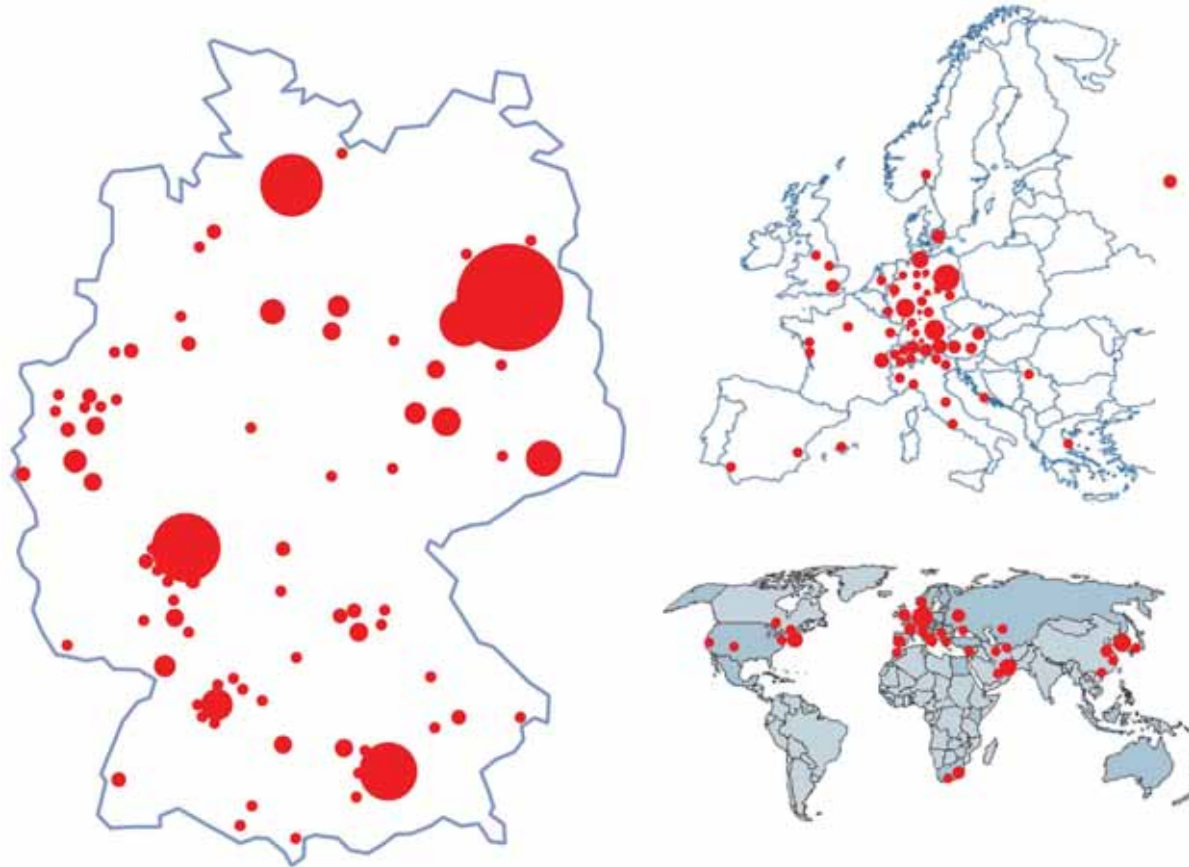
1965 geboren in Schorndorf
1987 – 1994 Studium an der TU Berlin FB Architektur
1994 Diplom an der TU Berlin FB Architektur

1994 – 1995 freie Mitarbeit im Architekturbüro
1995 Gründung der Werk5 Helmer Mangold Waltero GbR
2001 Gründung der Werk5 GmbH

Email mangold@werk5.com

KUNDEN

Modelle der Werk 5 GmbH in Deutschland, Europa und weltweit

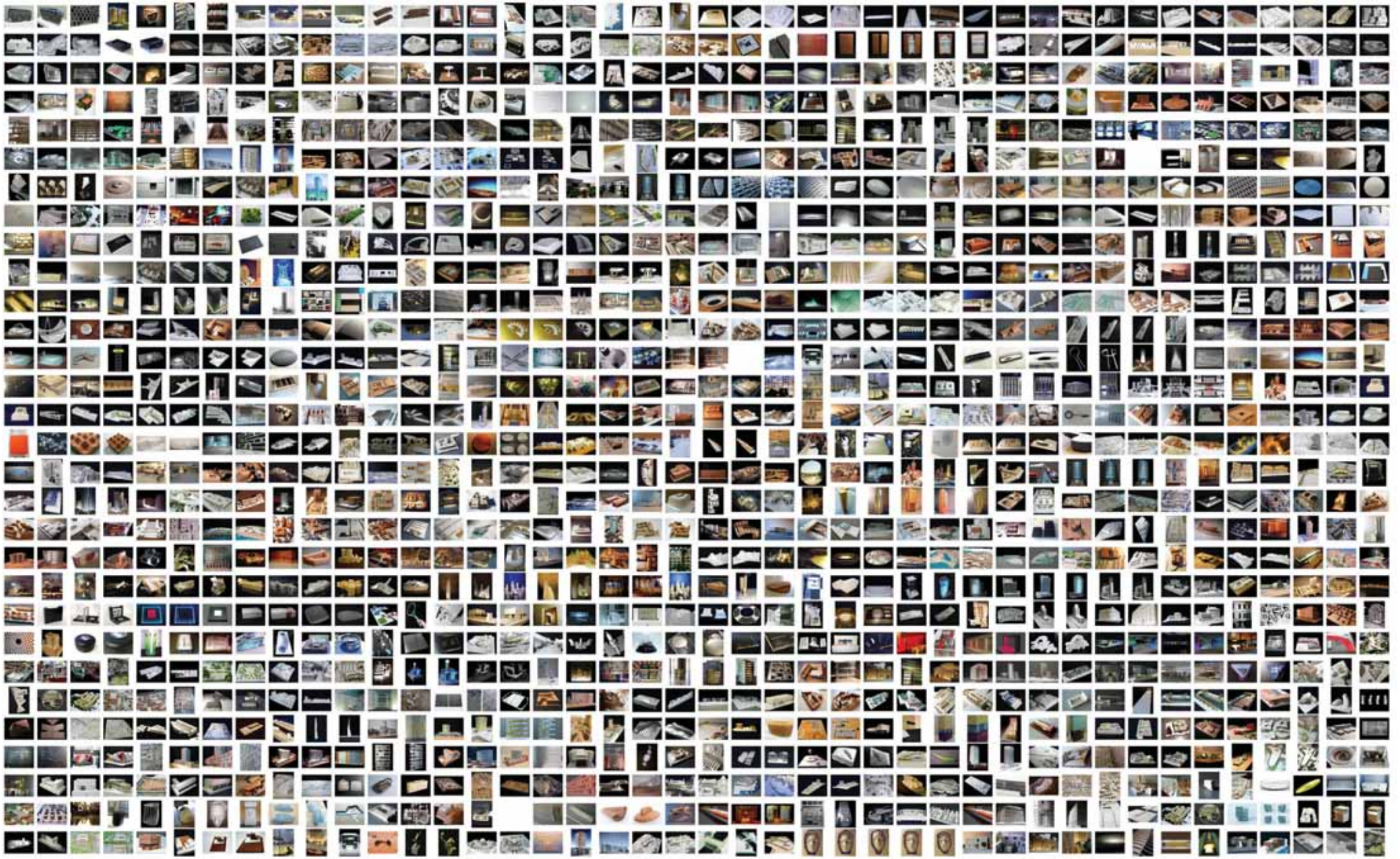


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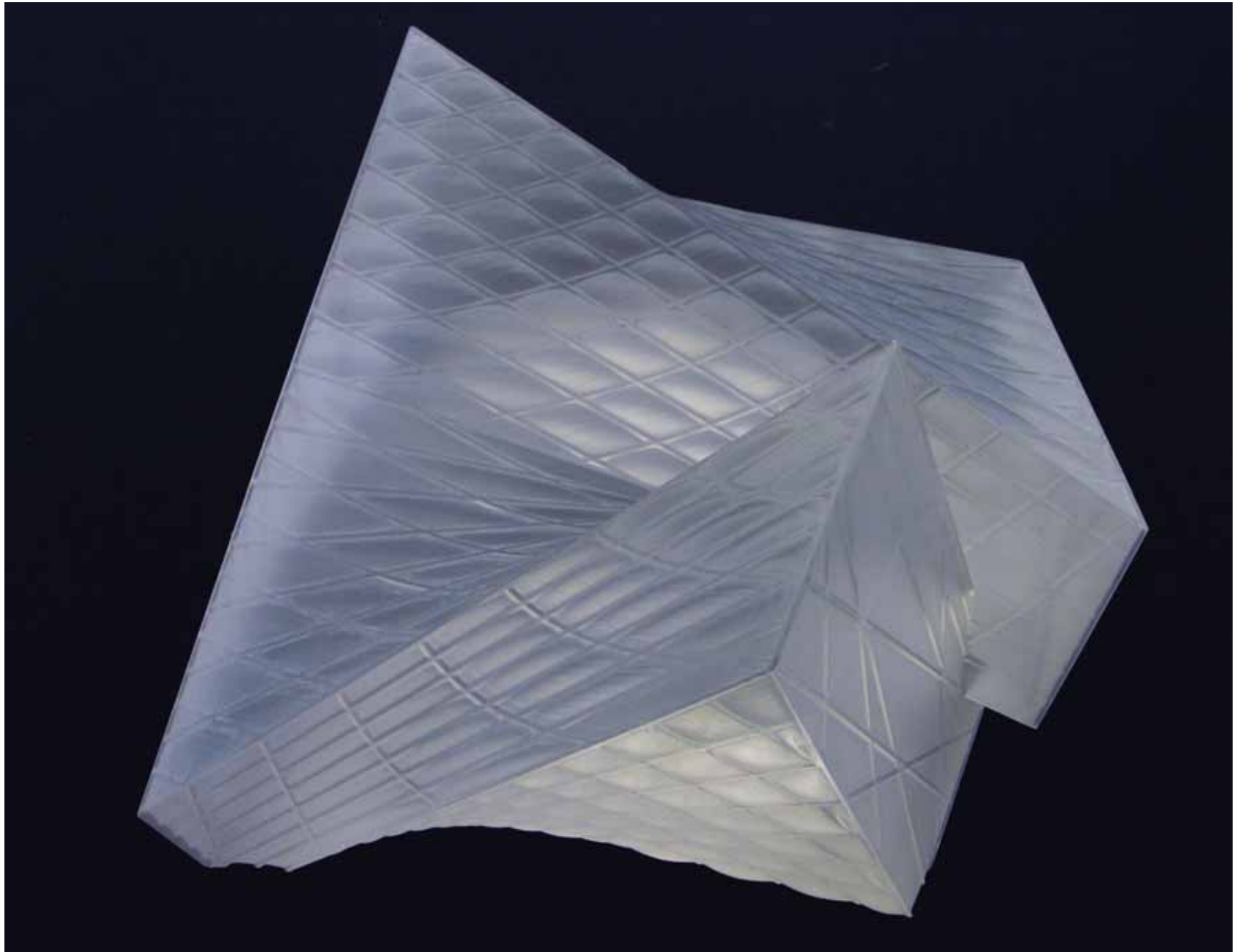
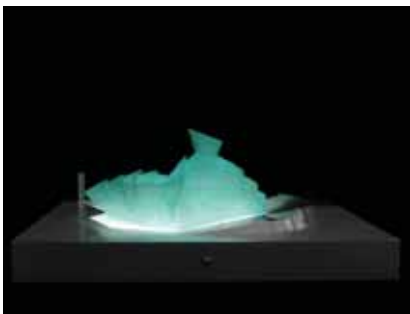
A9 ADAC Adidas Agentur 103 AKA Allmann Sattler Wappner Angelis Antikensammlung AP Plan APLEX Archimedes ARPEM Arthesia Artprojekt Artworks Atelier pk Audi Aukett Heese Aurelis B+T Design Barkow Leibinger Barlieb Baumgart Becker Becher Rottkamp Becker Behles Jochimsen Berliner Börse Bernhard Bernisches Museum Bertelsmann BF Studio BGK+K Bilfinger Berger Biotech GmbH Bjørnsen Bohner Wahl BKS BMW Böhm Böttger Bombardier Braun Braun Voigt Partner Braunert Brenner Brost BRT Bsquid Bundesbaudirektion Burmann Canton Mensing CBE Samsung Cdmb architects COOP Himmelblau Dan Pearlman Danfoss De L'Or De Otter De Fries Debitel Deut. Guggenheim/Hadid Deutsche Bank Deutsche Kinemathek Deutsches Hygiene Museum DGM Dittmann DKO Dörrbaum Dowe Dreyer Brettel DVG Management DWI Engel Zillich Ernst Faber Fairform FC Deutschland 06 Feddersen von Herder Feustel Fischer Flebbe Flying saucer Foster and Partners Frielinghaus FTZ GBB Geipel GKK GMP Gössler Graft Grassl Hartwig Grimshaw and Partners Grothe Graalfs Grüntuch Ernst Gwerk Haase Haberland Häfner Jimenez Hahn Meitner Institut Hascher Jehle HBPg Heide Heide Beckerath Alberts Heinle Wischer Partner Held Seeler Helfrich Henn Architekten Hertel Klarhöfer Hines Hochtief Höger Hare Hölzer HOK Horizont HPP HSV Hyundai Idaho Idea Imperial War Museum INTECO JMayerH Kada KaDeWe Kästle Kaltenbach Kaup Wiegand Kleyer Koblitz Knoche Knoll International Koch Kohlbecker Kolb Ripke KPM Krone KSP Engel + Zimmermann Kubeneck Kunst und Technik Köngeter Langhof Lendler Letzel Freivogel Libeskind Lüling Lunos Macina Mäckler Maron Rinne Matuschka MDC MEP Mercedes Meta Design Metropole Grundstücks GmbH Mini Minolta Mocca Design Mola Momeni Rinne Motorplan Multhaup Niebuhr Museum Ziesar Nalbach und Nalbach Nike Nolte Olivetti Omniyat Ortner und Ortner Ottmann o² Palos Parker Petzinka Plajer+Franz Planung freiraum Planungsgruppe Heidelberg Plate Porsche PR Contact Premiere Procon PSP Puma Quantum Ratz Raumlabor Realprojekt Reifferscheid Riccius Winter RKW Robert Vogel KG RobertNeun Rohrlapper Co Roncasa Rothkegel RTL2 Rüttnik Samsung Sansserif SAP Sauerbruch Hutton Schemel Schmid Scholz & Friends Schröder und Partner Schulte Schweizer Senatsverwaltung Siematic Siemens Smart Sommer und Partner Sonae West Sony Sparkasse Spiegel Staat Griechenland Stadthaus Ulm Stankovic Schemel Steidle Steinbeck Steiner Stift. Preuß. Kulturbesitz Stiller Strauss Strobel SWW Telekom Thomanek Topotek 1 Triad Trockel VAC Viterra Vogler Volke VW Wayss und Freytag Weissenberger Welter WIP Wolf Xhibit Zechbau Zoo Hannover

Werk 5 – REFERENZEN



ARCHITEKTUR

Foto rechts:
Graft, Kirche Wünsdorf
Fotos unten:
GMP International
Concert Hall, Peking



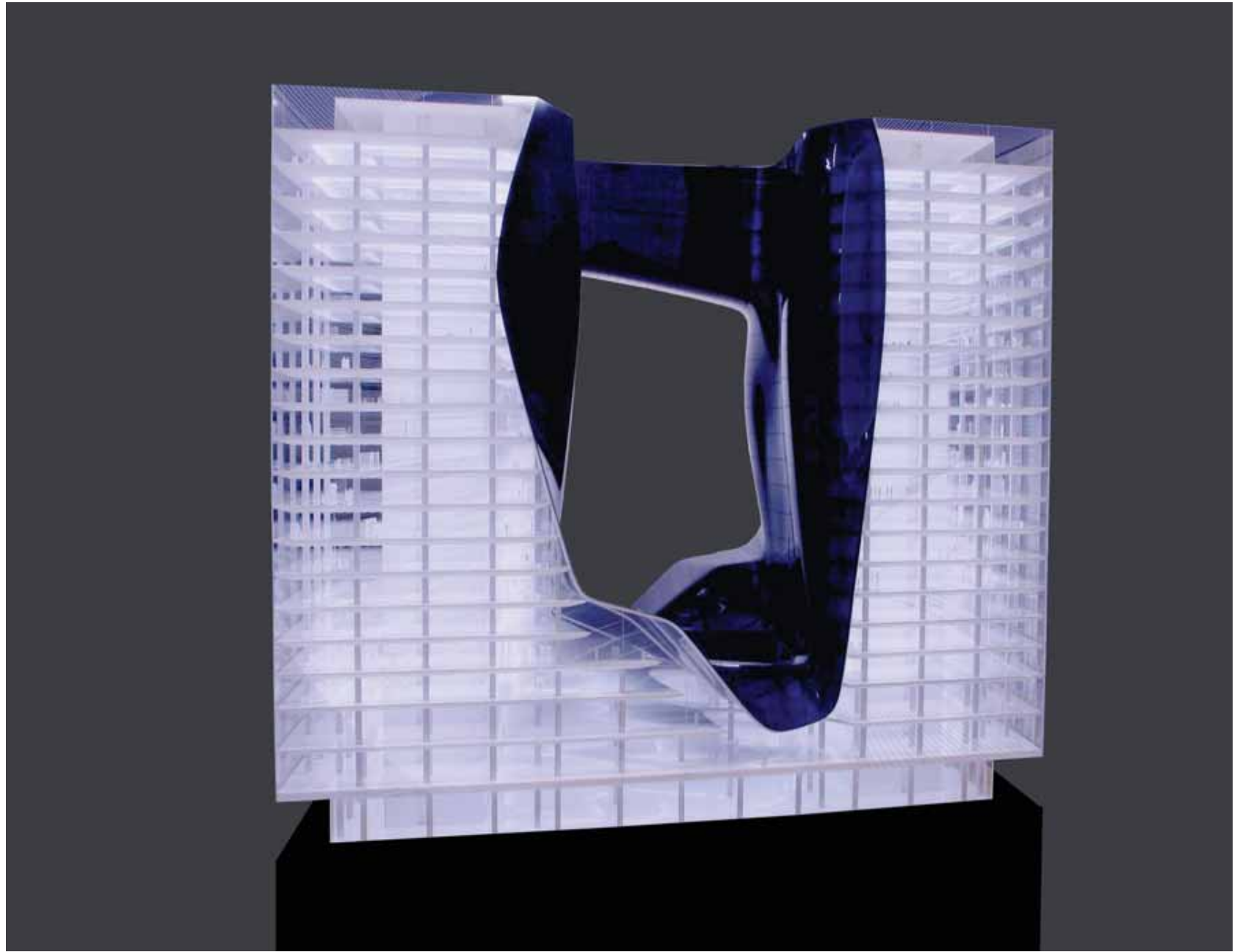
Abyaar, Cityscape 2008
Stadtentwicklung Dubai



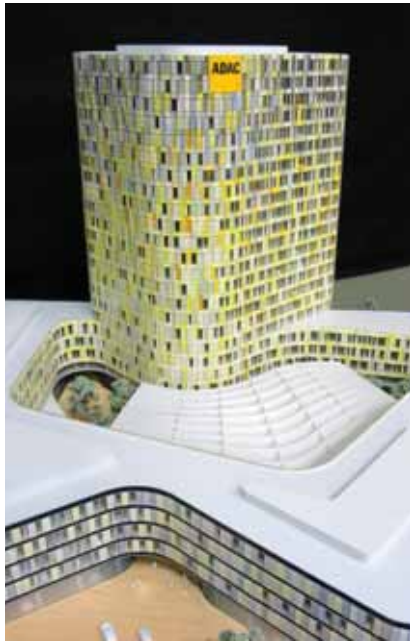


Finn Geipel
Centre du Design

Visionate/Omniyat,
Zaha Hadid, I-Cube



Architektur



Sauerbruch Hutton
ADAC

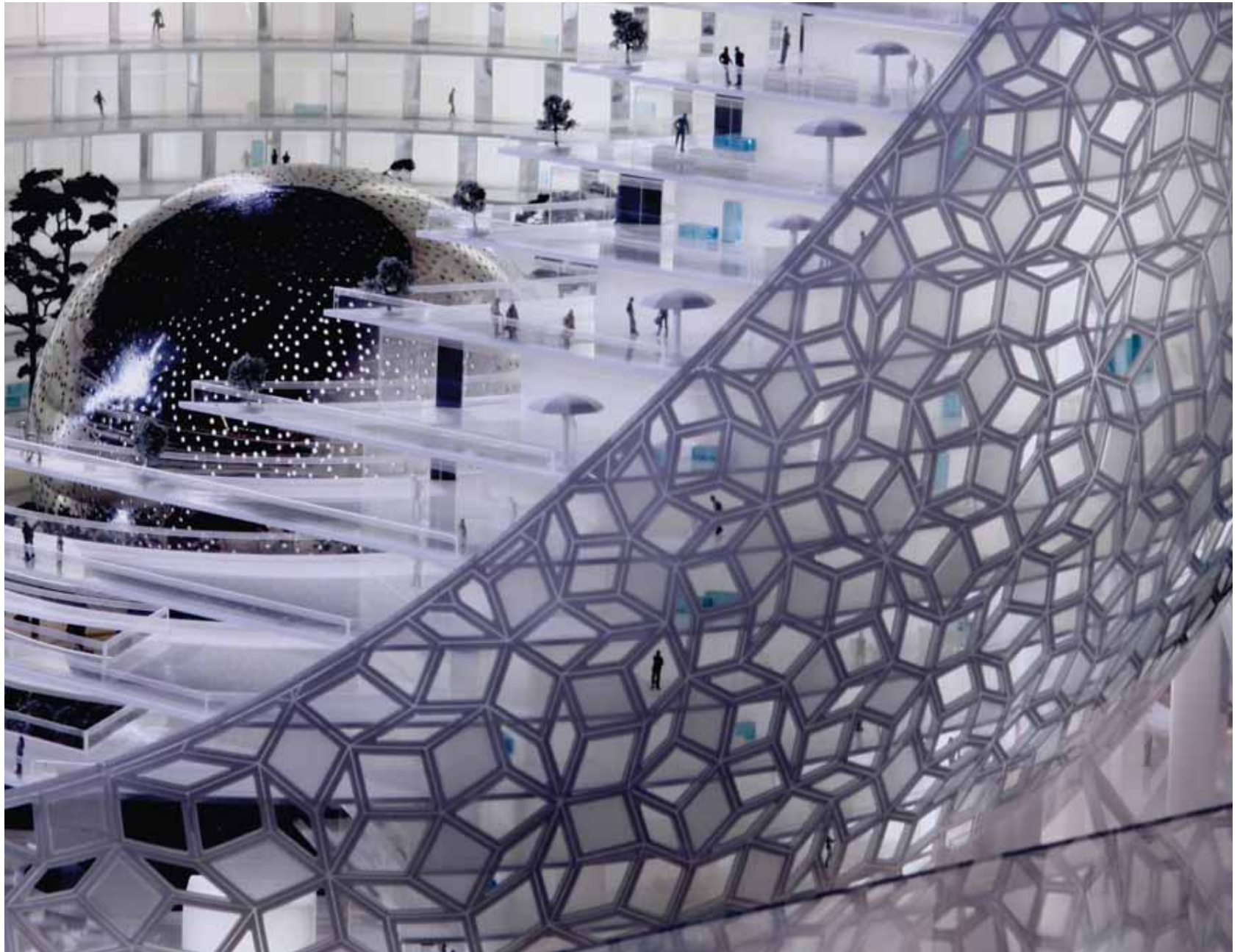


Sauerbruch Hutton
KFW
Sauerbruch Hutton
adidas



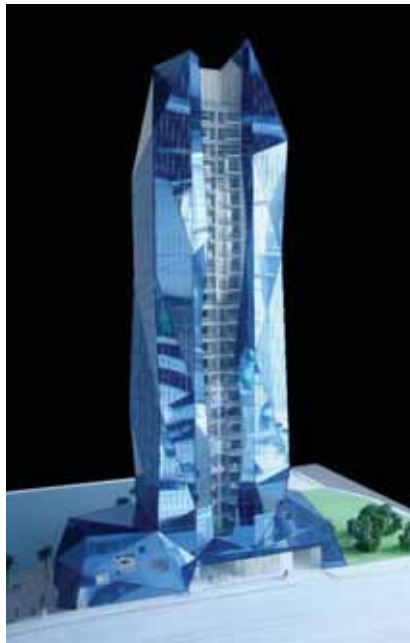
Sauerbruch Hutton
Oval Office





BRT, Oyster, Abu Dhabi





Abyaar
Cityscape 2008

Ausführung der Modelle:
hoch detailliert,
Details der Inneneinrichtung
in jeder Wohnung,
interaktive Illumination der
Gebäude durch einen
Touchscreen.

GMP/Hines/Meag,
Upper East Side



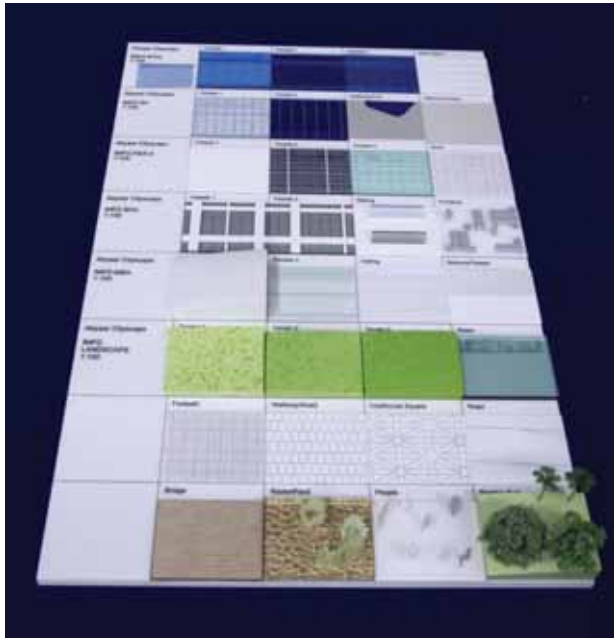
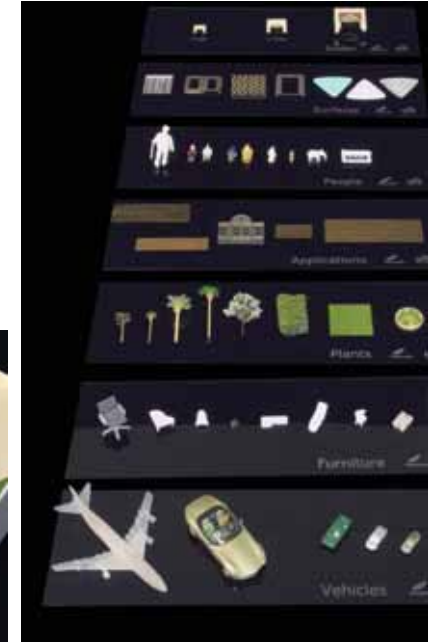
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www.werk5.com

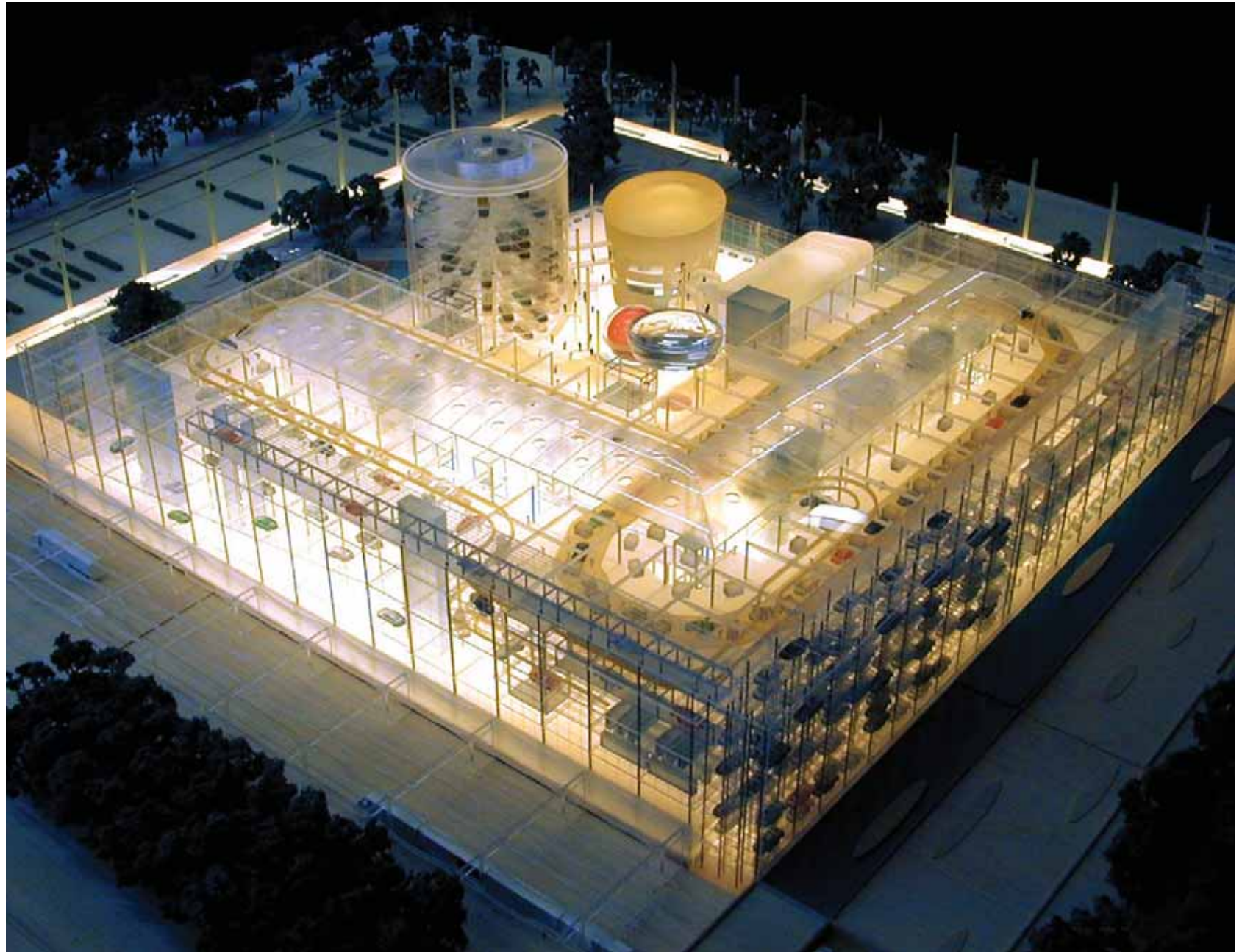
Architektur (Funktionsmuster und Dokumentation)



Materialbeispiele, mood boards, ständige Dokumentation und Funktionsmuster für unsere Kunden.



AUTOMOTIVE

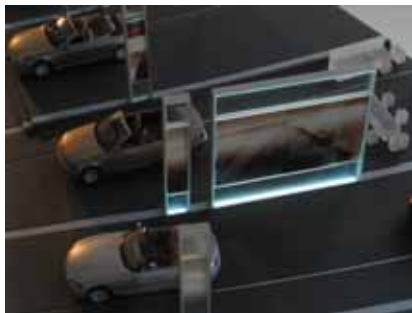


Henn Architekten,
Gläserne Manufaktur Dresden

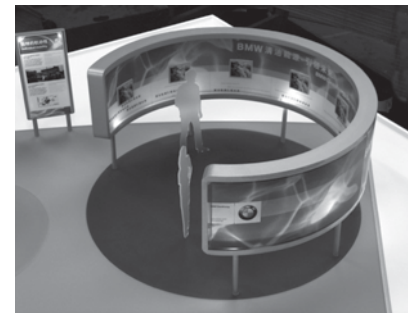


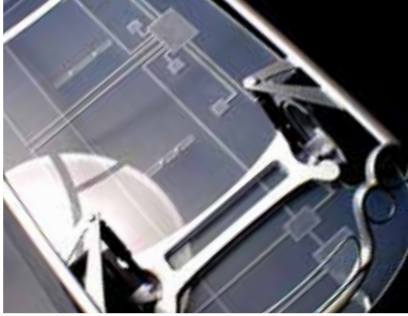
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Fotos links und oben:
Dan Perlman, BMW_Welt Interior
Fotos rechts:
Dan Perlman,
BMW Clean Energy China

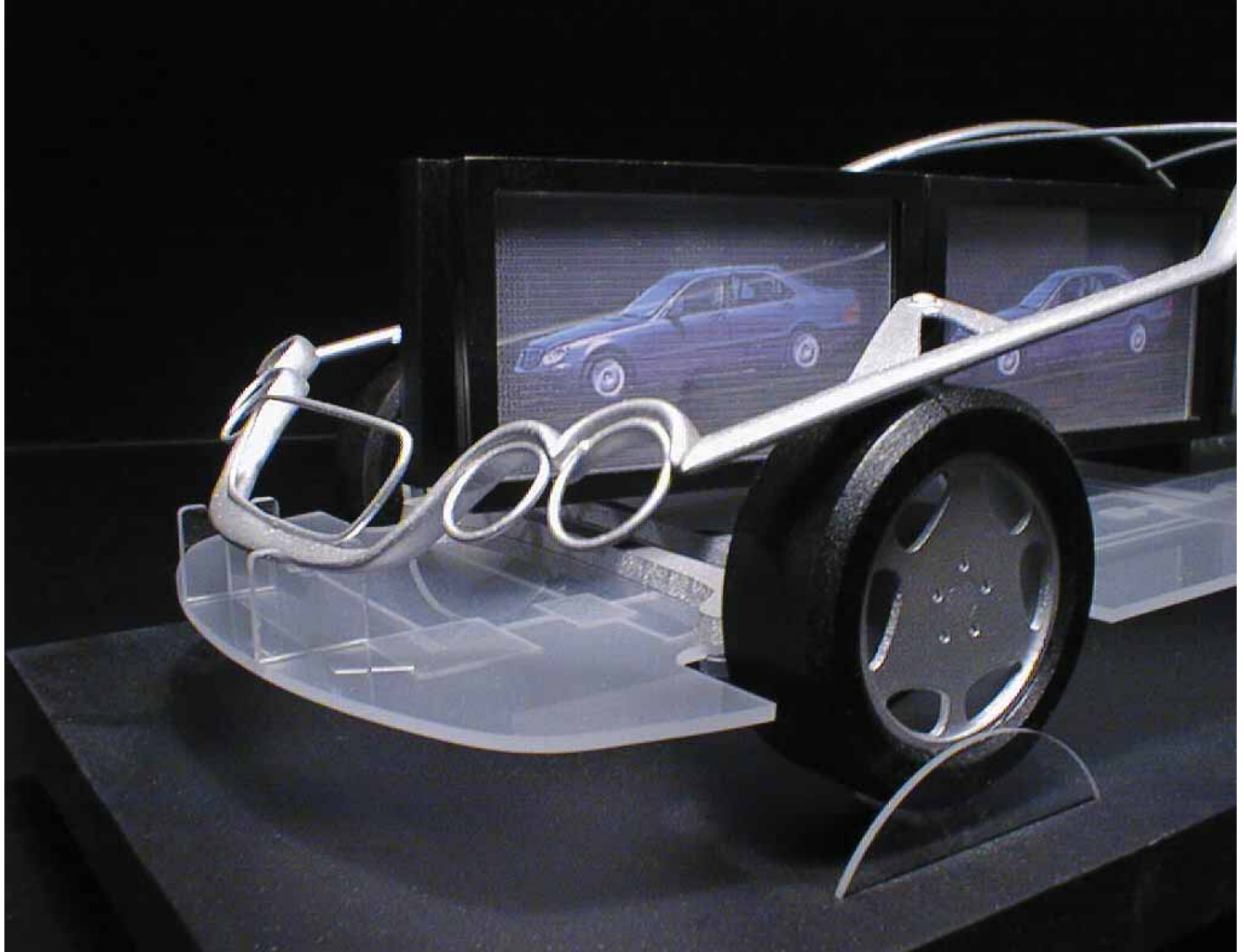




Fotos oben und rechts:
Triad, Mercedes Messestand

Foto mitte:
Mercedes SLR,
reaktives Funktionsmuster

Foto unten:
Dan Perلمان, Smart Messestand



MATERIAL und OBERFLÄCHE

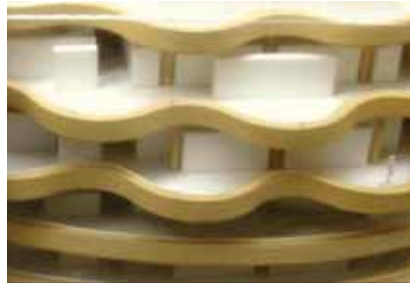
Material und Oberfläche (Beispiele)



Birnbaum, lasergraviert



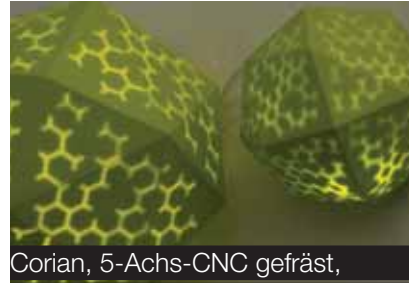
Acryl, lackiert,
5-Achs-CNC gefräst



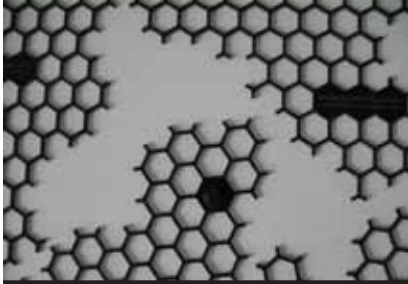
Ahorn, CNC gefräst



KBM, CNC gefräst



Corian, 5-Achs-CNC gefräst,
hinterleuchtet



schwarzes Acryl, gelasert



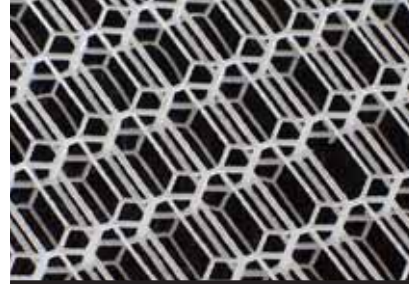
KBM, CNC gefräst



Acrylat, 3D-Plot



Corian, CNC gefräst



Acrylat, 3D-Plot



Acryl, div. Techniken



Ahorn, CNC gefräst



Grünstrukturen



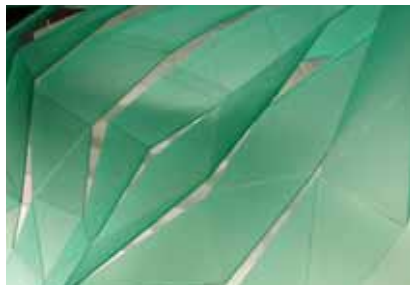
Birnbaum, konventionell



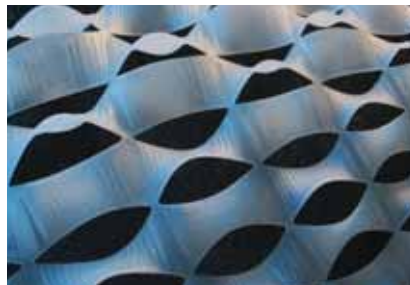
KBM, CNC gefräst



3D-Scan, 5-Achs-CNC gefräst



Acryl, 5-Achs-CNC gefräst



Acrylat, 3D-Plot



Acryl, gefärbt



Acrylat, 3D-Plot

MESSE und AUSSTELLUNG



Inteco, Expo Real 2008



Messe und Ausstellung

Inteco, MIPIM 2006
Interaktives Stadtmodell



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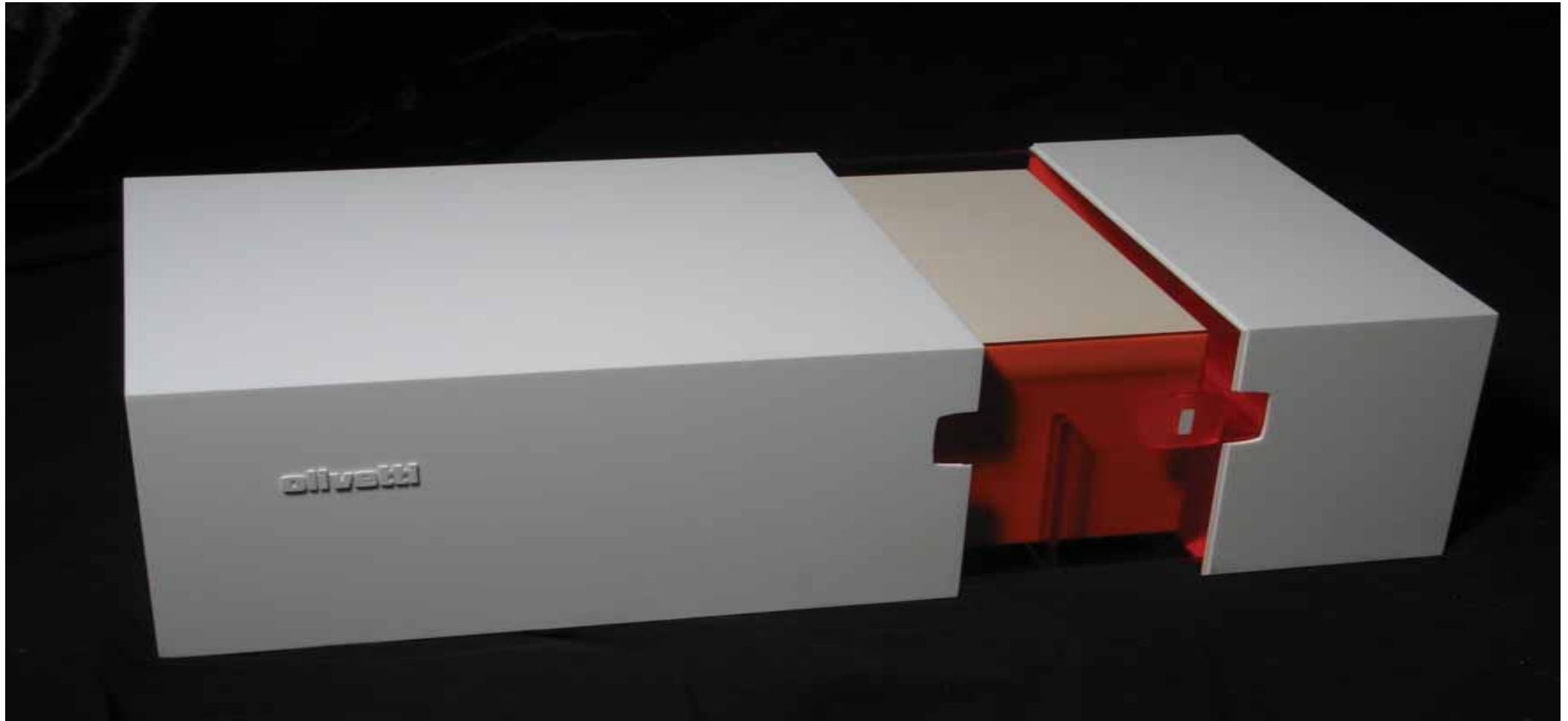
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KUNST und DESIGN



Foto oben:
Deutsche Guggenheim, Zaha Hadid
Foto links:
Deutsche Guggenheim, Anish Kapoor
Foto mitte:
Lerner/Stubbe, Robotic
Fotos rechts:
Graft, Cinema for Peace Award





Fotos oben und rechts:
MetaDesign, Olivetti Box
Fotos links:
Gewerk, Danfoss



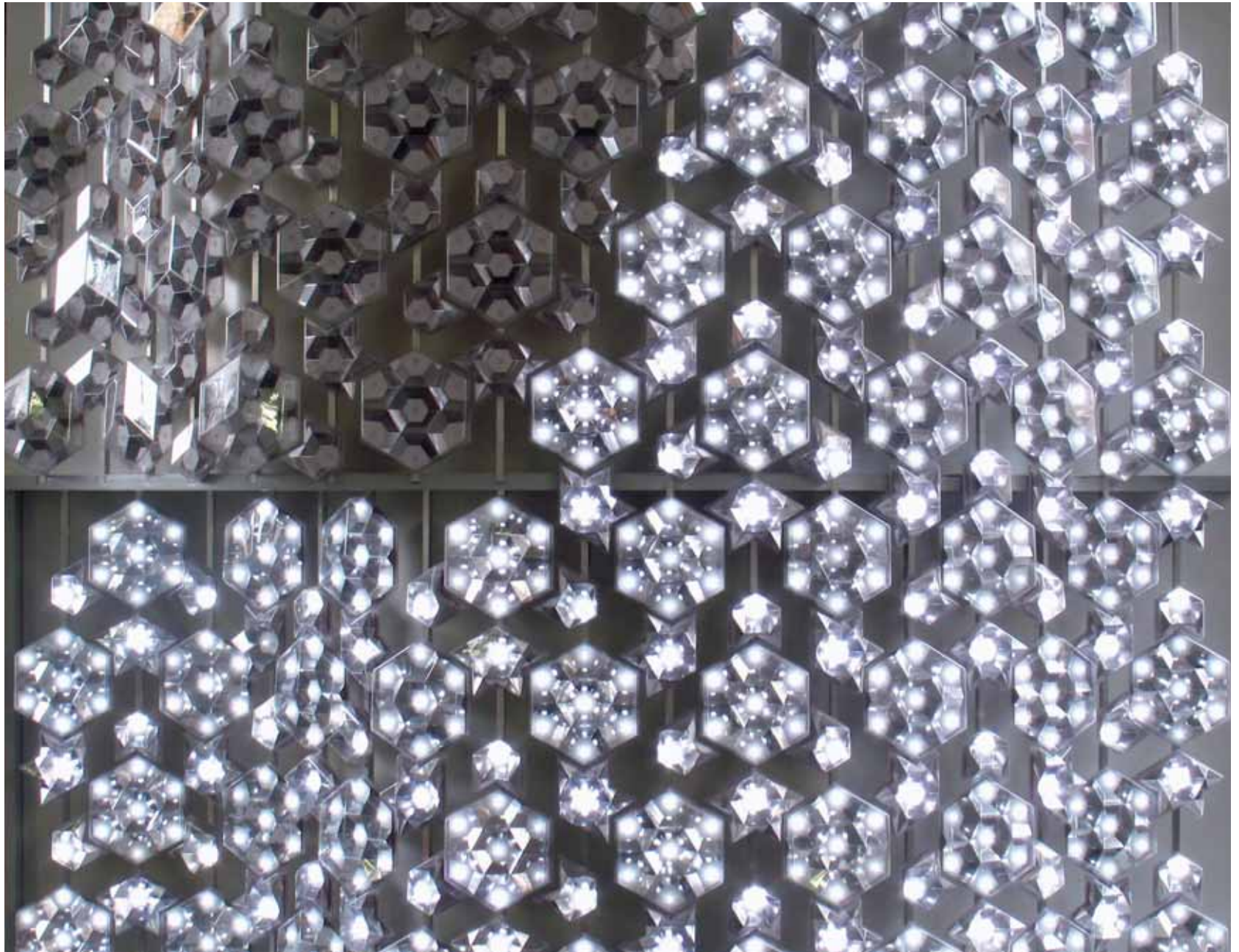
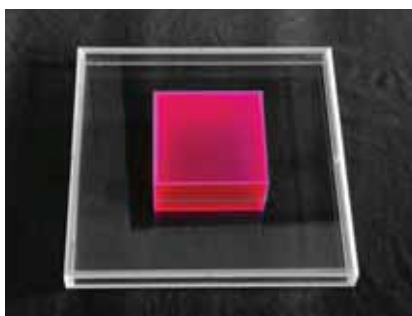
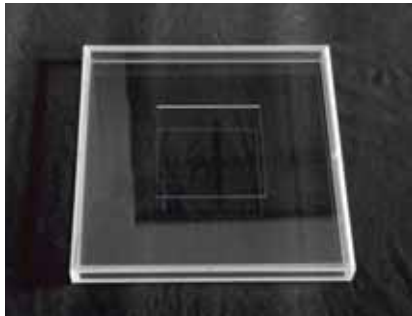


Foto rechts:
Realities United, Singapur
Fotos unten:
MetaDesign, LED-Cube





Autoaktive Installationen
für den Künstler
Philippe Parreno



KONTAKT



Anfahrt

PKW

Köpenicker Straße 48/49
Einfahrt zum DAZ (Deutsches Architektur Zentrum)
erster Hof, Aufgang C.

Kurzparken im Hof ist möglich, vor dem Gebäude
stehen Kundenparkplätze zur Verfügung.

U-Bahn

U8 Bahnhof Heinrich Heine Straße

- 5 Minuten Fußweg

S-Bahn und U5 Ostbahnhof

- 7 Minuten Fußweg

Bahn

Berlin Ostbahnhof

- 7 Minuten Fußweg

Flugzeug

Flughafen Tegel

- Taxi 14,5 km

Flughafen Schönefeld

- Taxi 16 km

Adresse

Werk 5 GmbH
Köpenicker Straße 48/49
(im DAZ)
10179 Berlin

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E-Mail info@werk5.com
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interactive scape

HDTML client: Nespresso

Screen	LCD
Resolution.....	Full HD (1920 x 1080 px)
Screen Size in mm.....	1014 x 568
Pixel/cm	18,8
Multitouch.....	yes
Object-Tracking.....	yes
Number of Objects	20 / 100
Software Interface	TUIO Protocol
Compliance	VDE
Measurements Hardware	1185 x 735 x 560 mm
Measurements Corian Case	1197 x 629 x 900 mm
Customizing	yes
Price	by request

The HDTML combines two innovative kinds of interaction – multitouch and tangible. Multiple users can use the displays simultaneously with their both hands. That makes a clear difference to dual- and single-touch displays. Explore digital data through the help of a graspable user interface – the HDTML (HighDefinition Tangible Multitouch LCD System). A graspable or tangible user interface, called TUI, is an interface which enables you to display digital information that corresponds to a physical object. Let your customers explore information about your products with the help of rich media content, which could be text, pictures, video or even 3d animations. When the user places an object on the LCD screen, the HDTML identifies the object. Therefore the object has to be labeled with a black/white pattern. This pattern can be on a sticker or directly

printed onto an object, for example your product. The HDTML combines latest technology with premium design. Users are enticed into interaction by the haptic qualities of the object, enabling a smooth transition between discovery, understanding and usage. You can use a cell as an individual table. The low-maintenance LCDs are durable. Their expected lifetime is up to 50 000 hours. There is no need to change lamps or filters which minimizes operational costs. The LCD display front glass is scratch resistant which is essential in public places. Currently the tracking software for the HDTML works natively on Windows operating systems. interactive scape offers hardware as well as software. This enables you to create applications on your own but we also do interaction design and programming inhouse.

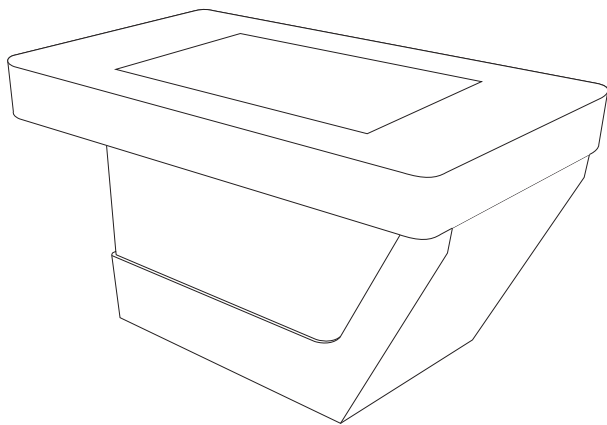


watch the video on:
<http://www.interactive-scape.com/files/Doku4.wmv>



HDML client: T-Mobile

Screen	LCD
Resolution.....	Full HD (1920 x 1080 px)
Screen Size in mm.....	1014 x 568
Pixel/cm	18,8
Multitouch.....	yes
Object-Tracking.....	no
Software Interface	TUIO Protocol or direct
Compliance	VDE
Measurements Hardware	1050 x 605 x 630 mm
Measurements Corian Case	1062 x 617 x 900 mm
Customizing	yes
Price	by request



The HDML contains displays which are based on the most advanced multitouch technology commercially available. Multiple users can use the displays simultaneously with their both hands. That makes a clear difference to dual- and single-touch displays.

The display works in daylight, at night and when the light changes from day to night.

This makes it possible to use the display even outside and in halls where lighting is changing. Technology has been built so that with one compact and efficient API it is possible to develop and implement multi-touch applications which can run on screens right up to 20 m.

LCD displays work fine as table or wall displays. A client can use a cell as an individual table or combine several cells to form a larger table.

The low-maintenance LCDs are durable. Their expected lifetime is up to 50 000 hours. There is no need to change lamps or filters which minimizes operational costs. The LCD display front glass is scratch resistant which is essential in public places.

The tracking software for the HDML works natively on a range of Windows, Mac OS X and Linux operating systems.

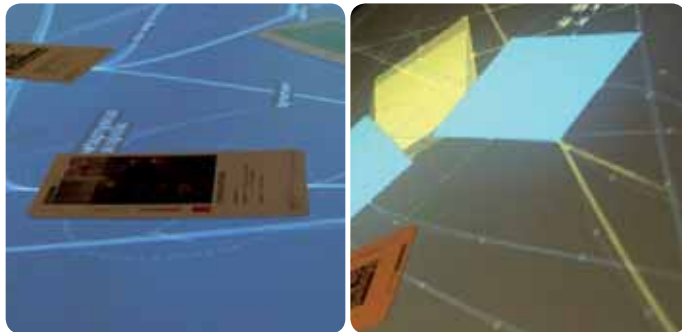
interactive scape offers hardware as well as software. This enables you to create applications on your own but we also do interaction design and programming inhouse.



watch the video on:
<http://www.youtube.com/watch?v=KilhGvHDqRg>

HDTP mæve

Screen	projection
Resolution.....	Full HD (1920 x 1080 px)
Screen Size in mm.....	1420 x 800
Pixel/cm	13,5
Multitouch.....	no
Object-Tracking.....	yes
Number of Objects	120 max.
Software Interface	TUIO Protocol
Compliance	VDE
Measurements Hardware	2200 x 1720 x 1000 mm
Measurements Corian Case	2200 x 1720 x 1000 mm
Customizing	yes
Price	by request

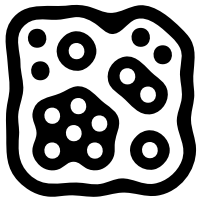


Explore digital data through the help of a graspable user interface – the HDTP (HighDefinition Tangible ProjectionSystem). A graspable or tangible user interface, called TUI, is an interface which enables you to display digital information that corresponds to a physical object.

The HDTP combines proven technology with premium design. Users are enticed into interaction by the haptic qualities of the object, enabling a smooth transition between discovery, understanding and usage.

When the user places an object on the projection screen, the HDTP identifies the object. Therefore the object has to be labeled with a black/white pattern. This pattern can be on a sticker or directly printed onto an object, for example a product.

interactive scape offers hardware as well as software. This enables you to create applications on your own but we also do interaction design and programming inhouse.



Example for a b/w pattern.
Reactivation fiducial marker.

get more information,
watch the video on:
<http://portal.mace-project.eu/maeve/installation.php>

