



marco hemmerling + ulrich nether form additive generico chair

64 201 4 13 0
 Tweet Log In Pin It +1 Share Submit

marco hemmerling + ulrich nether form additive generico chair
 all images courtesy of dirk schelpmeier

german designers marco hemmerling and ulrich nether have produced the 'generico chair', a product based on generative and additive manufacturing technologies. the process for developing the form involved a detailed analysis of structural performance, material properties and ergonomic demands, as well as technology production parameters. following an iterative design strategy, a material layout calculation resulted in reducing parts of the volume, while still enabling the necessary stiffness, comfort and functional requirements to be met. a 3D computer model was reviewed using FEM-software, to measure deformation and stresses before all the findings were integrated into a final 3D model.

the 'generico chair' will be launched during the milan design week at DIN, via massimiano 6, april 8-13.



the product is based on generative and additive manufacturing technologies



a material layout calculation resulted in reducing parts of the volume



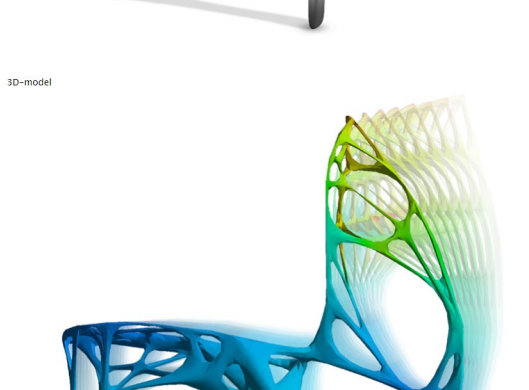
the design responds to load forces and ergonomic conditions



detail



3D-model



FEM-model

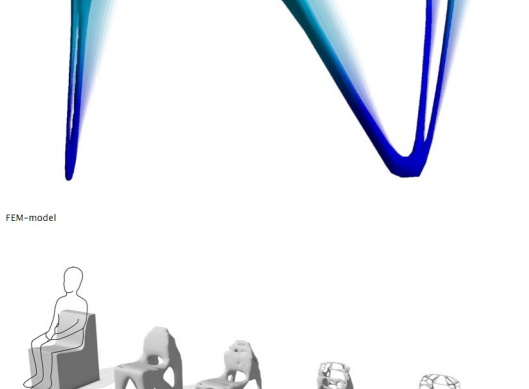


diagram showing structure optimization

project info:

design: marco hemmerling and ulrich nether
 FEM-calculation: mathias michel, imagine structure
 3D-printing: stratasys
 photos: dirk schelpmeier

designboom has received this project from our 'DIY submissions' feature, where we welcome our readers to submit their own work for publication. see more project submissions from our readers [here](#).

Marco Hemmerling apr 09, 2014

64 201 4 13 0
 Tweet Log In Pin It +1 Share Submit

name (required)
 e-mail (will not be published) (required)

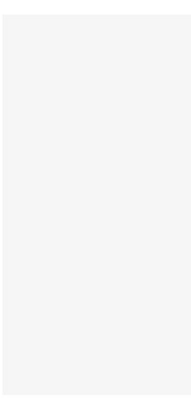
comments policy

LOG IN VIA

submit

3D printing (108 articles)

publish your work



3D printing (108 articles)

chinese company 3D prints 10 recycled concrete apr 24, 2014

25 international designers collaborate on apr 18, 2014

michiel cornelissen interlocks 3D apr 18, 2014

marco hemmerling + ulrich nether form apr 09, 2014

3D printed house constructed by UCLA + HUD apr 06, 2014

popular today design

dream cars presents 17 of the most rare and apr 29, 2014

heathfield co produces range of bespoke lighting apr 28, 2014

NIKE presents the mercurial superfly: a boot built for apr 27, 2014

penson completes self-service NHS express clinic in apr 29, 2014

interview with graphic artist anthony burrill apr 28, 2014

milan design week 2014 (122 articles)

ruí pereira references milanese street apr 29, 2014

deesawat specializes in teak wood outdoor apr 28, 2014

nendo swaps screws for magne-hinge apr 28, 2014

coqoon tablet pillow secures flat screens into place apr 27, 2014

lensvelt's maarten van severen installation in apr 27, 2014