

CASE STUDY - DENTAL INDUSTRY



MODEL FOR DENTAL PRODUCTION CENTER

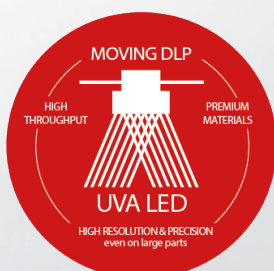
DREVE - GERMAN DENTAL PRODUCTION CENTER

Dreve is a dental production center which manufactures models and implant guides for dentures and orthodontic pieces. While the majority of dental models are still produced manually from plaster casting, dentists are increasingly using intra-oral scanners, thereby bringing the workflow into the digital realm, which is expected to result in a sharp increase in the demand for dental models over the coming years.

CHALLENGE

To meet the increasing demand, Dreve wants to increase its production capacity while maintaining the precision and the quality which enables the group to be a leader in the dental industry:

- Multiply the production capacity
- Decrease per-unit production cost
- Optimize precision
- Maximize resolution



TECHNOLOGY

MOVINGLight® - Photopolymerization

MATERIALS

PLASTCure Model 100 - Curable resin



MODEL FOR DENTAL PRODUCTION CENTER



SOLUTION DEPLOYED

MOVINGLight®: A PROPRIETARY TECHNOLOGY FOR DENTAL PRODUCTION

The revolutionary MOVINGLight® DLP technology, patented by Prodways, is a photopolymerization process for producing dental models with high resolution and at high speeds by polymerizing the photosensitive resins with moving DLP (Digital Light Processing) UV rays. The Prodways exclusive MOVINGLight® technology delivers:



- Premium quality of dental models for prosthetic/orthodontics work – including implant models: ultra-high accuracy (up to 32 microns) and superior surface quality
- Maximum productivity: unparalleled speed, ensuring perfect quality on large production platforms through the use of exclusive MOVINGLight® technology
- Cost-per-unit among the most competitive: MOVINGLight® printers achieve production costs among the lowest in the market

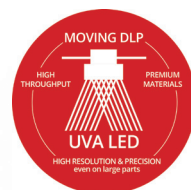
ProMaker D35: PERFECT COMBINATION OF PRECISION & PRODUCTIVITY

The ProMaker D35 simultaneously meets requirements for high productivity and superior product quality. It ensures high performance in terms of fine detail, precision and surface quality over the entire build platform with impressive speed.

PLASTCure Model 100: DESIGNED FOR DENTAL MODELS

PLASTCure Model 100 is a resin that was specially designed for model applications. It is easy to develop and well-suited for high accuracy and excellent resolution with a high-quality look and feel.

MOVINGLight®



BENEFITS

Thanks to the high speed of ProMaker D35, coupled with the high-quality look and feel of PLASTCure Model 100 resin, Dreve is able to:

- Increase production capacity: complete platform of 54 models in approximately 6 hours. With nine ProMaker D35 printers in-house, Dreve has a total production capacity of more than 1,250 dental models per day
- Optimize precision and quality: with a native resolution of 32µm, coupled with a layer thickness of 25µm, Dreve achieves optimal precision and quality in the production of dental models
- Decrease per-unit production cost while reducing manual work and improving material efficiency

PRODWAYS
THE NEW WAY OF PRODUCING

ZI Les Garennes - 1-3, rue Chappe 78130 Les Mureaux | Tel: +33 (0)1 30 90 44 12 | www.prodways.com

Photos: ©Prodways - ©Thinkstock - ©Shutterstock - V.11.02.2016

Performance characteristics mentioned, may change according to product application, operating conditions, material combined or end use.
©Prodways 2016 - The information contained in this document is not contractually binding and may not be reproduced without prior approval.

A COMPANY OF
GORGE

FOLLOW US
ON TWITTER
[@prodways](https://twitter.com/prodways)