

smilemaker

Your all-star clear aligner production unit  Productivity mode
Up to 80 aligners / day

Aligner factory on the benchtop.

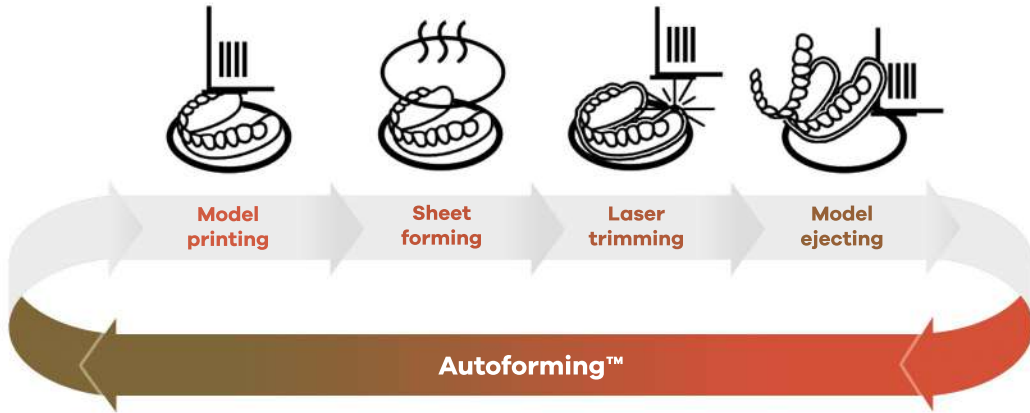
SM-2025-11-B-003

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How does Autoforming™ work?

Our *patent pending* Autoforming process overcomes the greatest shortages of clear aligner production by enabling a 100% automated and hands-free process.

Opposing direct aligner resins that don't seem to become a viable alternative, Autoforming™ takes the conventional thermoforming process that has been proven across millions of cases globally and automates it entirely in a benchtop-sized machine called Smilemaker.



A full automation

In the process, model printing, forming sheet placement and thermoforming as well as laser trimming happens in a compact device.

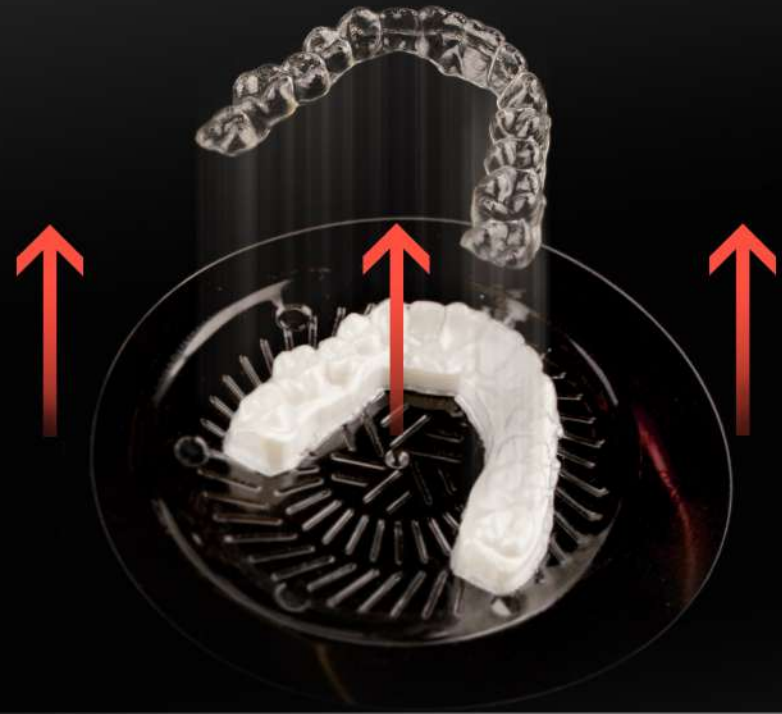
After these steps are completed, the printing platform clears itself and repeats the process making Smilemaker a **24/7 aligner production machine**.

Regular great quality

Smilemaker is automating individual production steps that has already been widely used in the field of clear aligner orthodontics.

Consequently, the outcome of the process is as we know it: **high quality, dental clear aligners and retainers**.

Next level aligners & retainers.



Trimline & attachment options

Owing to the fully digital design process, the attachment applied will be part of the design. A trimming line is also generated in the planning software.

Whether it's a **scalloped, straight or offset trimline**, the laser cutting head will perform a clean and polished cut.

Ortho planning services

Smilemaker is **compatible with all open orthodontic planning software** that is capable of producing STL and PTS/XYZ outputs.

If you do not do in-house CAD design yourself, we've got you covered with our convenient **orthodontic planning services** available through our **VOXELTEK.live** platform.

Smilemaker is a fully automated production device designed for the fabrication of dental clear aligners and retainers. Based on the patent pending Autoforming™ technology, Smilemaker unites individual steps of the conventional production process in a single benchtop size machine.

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Model printing, thermoforming and laser trimming now is a 100% automated process with Smilemaker.

Your in-house aligner production unit.



Technical specifications

| | | | |
|---|--|-----------------------------|-----------------------------------|
| <i>Technology</i> | Autoforming™ | <i>Laser source</i> | CO2 |
| <i>Accepted file formats</i> | STL (models), PTS/XYZ (trimline) | <i>Laser power</i> | 35W |
| <i>Print platform diameter</i> | 90 mm | <i>Power supply</i> | 100-240V / 50Hz |
| <i>Compatible sheets</i> | Smilemaker multilayer sheets Popular 3rd party sheets | <i>Peak power</i> | 2200W |
| <i>Compatible sheet thicknesses</i> | 0.5 - 2.0 mm | <i>Machine dimensions</i> | 820 x 320 x 650 mm |
| <i>Modeling material type</i> | Smilemaker model v1.1 | <i>Machine weight</i> | 70 kg |
| <i>Modeling material cartridge weight</i> | 0.75 kg | <i>Packaging dimensions</i> | 1200 x 800 x 1000 mm (EUR pallet) |
| <i>Compatible sheet formats</i> | 120/125mm, circular and rectangular | <i>Shipping weight</i> | 130 kg |
| <i>Sheet storage unit capacity</i> | Up to 50 sheets | <i>Warranty</i> | Standard 1 year, extendable |

Productivity mode

Productivity mode is a semi-automatic operation mode on the Smilemaker clear aligner printer. In productivity mode, one or more external 3D printers are used to produce the thermoforming models that are then hand-loaded into the Smilemaker for thermoforming and laser trimming. In productivity mode, Smilemaker performs as a fully-fledged laser aligner cutter device. This operation mode allows for an increased daily output of aligners and retainers.

Daily output - Normal operation (automatic) **Up to 30-35 aligners / day**

Daily output - Productivity mode (semi-automatic) **Up to 80 aligners / day**



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A clear future ahead.

The global clear aligners market is projected to experience significant growth in the coming years, with a forecast to reach \$45+ billion by 2032, market insights reports show.

This growth is driven by technological advancements, increasing awareness of dental aesthetics, and a preference for discreet and comfortable orthodontic treatments.

Clear aligner orthodontics remain to be a pivotal field of dental care in the coming years.

There is such a difference clear aligners can bring to people's lives. Clear aligners have helped over 10 million people by improving their oral health, self-esteem and confidence.

Now it's time to improve the life of many millions more by bringing inexpensive and great quality clear aligner orthodontics to them.

This is the mission of the all-new Autoforming™ technology



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