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HUNGARIAN
GOVERNMENT

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INVESTING IN YOUR FUTURE

SMARTFORM BY ANFINEO

People with limited mobility due to old age, musculoskeletal or neuropathic illness, and possibly extensive paralysis spend most of their time lying in bed. The supine position carries direct health risks: tissue damage and suppository ulcers can develop very quickly at pressure points, as does the psychological strain, as limited activity also has a negative effect on patients' mental health. They may be less active in social life, uncomfortable watching TV, as well as working. When developing SMARTFORM, we set out to prevent this type of problem and to prevent it from getting worse.

If we can provide the user with a safe sitting for a longer period of time, the amount of time actively spent will increase, thus making both their biological parameters and psychological factors significantly more favorable. By making the upper body and the arm movable and usable, it also becomes suitable for performing the relevant independent tasks.

ACTIVE SITTING

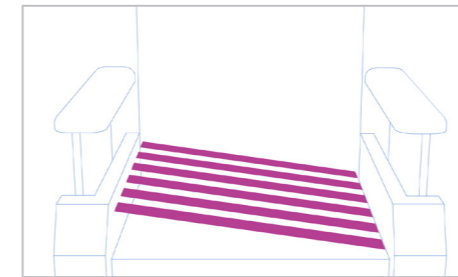
One of the biggest achievements of SMARTFORM by ANFINEO is the seat that can be controlled with a telephone application:

- the pressure rods under the seat cushion can be moved continuously or intermittently;
- with the triple rods, arranged in six rows. The three pressure rods in a row are connected by a highly flexible fiberglass-reinforced plastic slat. This provides support for the seat cushion on a free-form yet large surface area.
- the seat can be tilted in any direction, its shape can be freely formed, it can be a convex, concave or even undulating surface.
- due to the changing shape of the seat, the user is always in contact with the mattress in different areas;
- the movement is unnoticed, slow, so it does not interfere with rest or work, does not cause nausea or malaise.
- the seat can be loaded up to 130 kg.

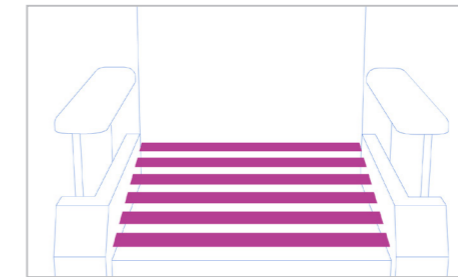
MOVEMENT PROGRAMS

The movement programs control the occasional repetitive deformation of the specially designed seat:

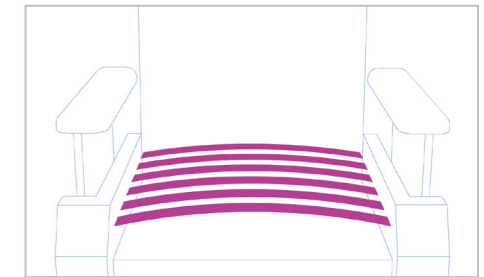
- Lateral tilt: the seat tilts to the right and left alternately.
- Back and forth tilt: the seat tilts back and forth alternately.
- Concave-convex: the seat alternates between concave and convex shapes.
- Alternate rise-descent: every second flexible slat goes up, every intermediate slat goes down, and vice versa.
- Slight undulating motion: a small amplitude of undulating motion travels through the seat.
- Wave motion: A large amplitude of wave motion travels through the seat.



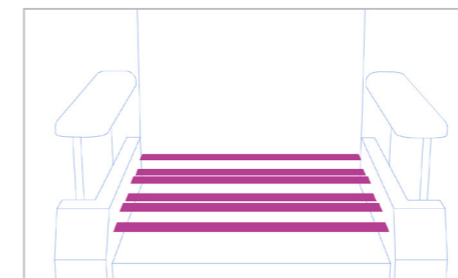
1. Lateral tilt



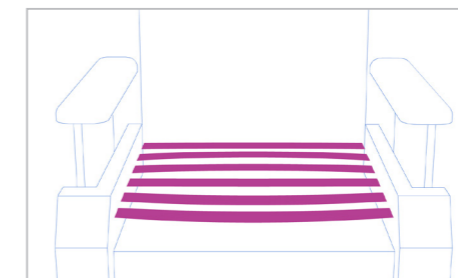
2. Back and forth tilt



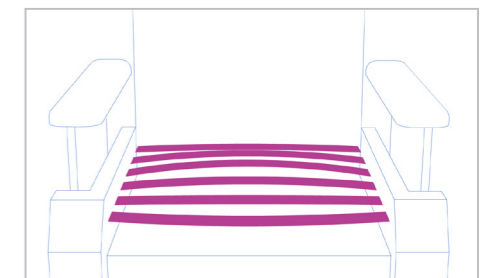
3. Concave-convex



4. Alternate rise-descent



5. Slight undulating motion

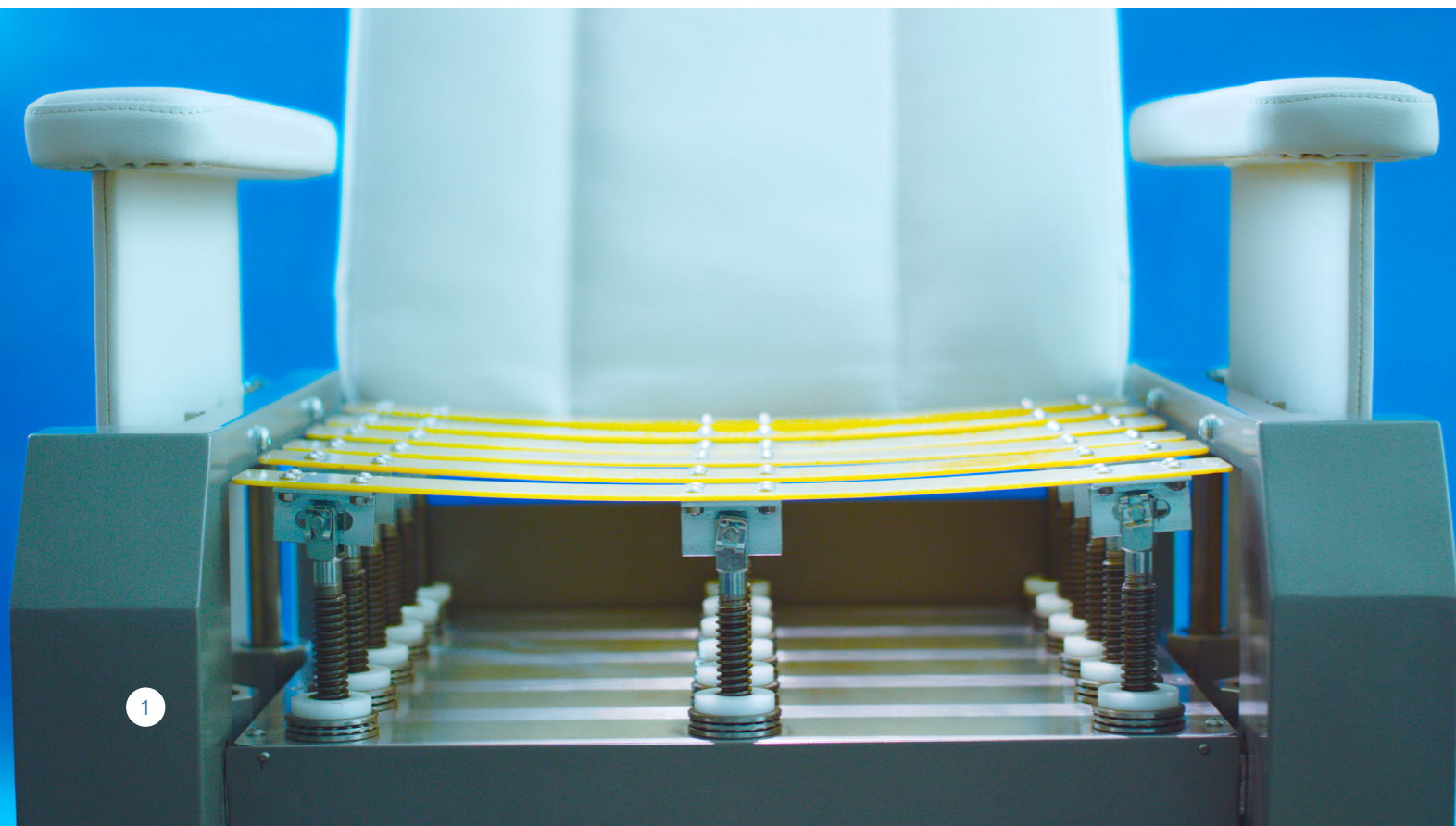
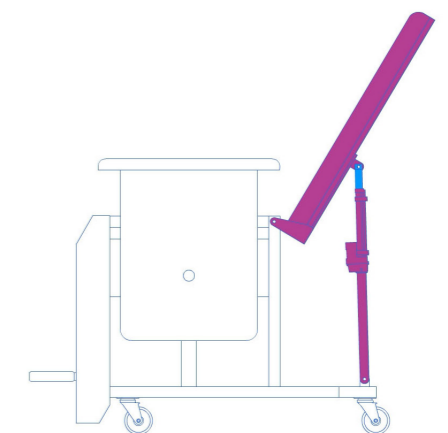


6. Wave motion

TILTING BACKREST

This feature was especially important to us when designing the furniture, as we wanted to achieve a posture-close body position. Adequate support for the dorsal section is key not only for supine but also for other articular, disc injuries.

- By adjusting the backrest between 90 and 120 °, the optimal sitting position can be achieved;
- the high backrest also provides support for the head;
- In the semi-sitting, half-lying position, we recommend using the footrest unit, which can be purchased as an accessory, instead of the movable footrest. This ensures that the legs are supported on a horizontal, large surface.



THE SMARTFORM APPLICATION

SMARTFORM by ANFINEO can be controlled using an application installed on a mobile phone, so even patients can control its operation. The operator can currently select the most suitable one from 6 movement programs and start it at the touch of a button. In the future, we would like to make more mobility programs available to users, which can be downloaded from the device's website (www.anfineo.com). Software updates can be inserted into the furniture on the SD card after downloading. The following options are available to the user in the android application related to furniture:

Selecting a seat movement program:

- Lateral tilt
- Back and forth tilt
- Concave-convex
- Alternate rise-descent
- Slight undulating motion
- Wave motion

In the application we also have the possibility to make static settings:

- Angle adjustment of the backrest between 90 and 120 °.
- Seat height adjustment: between -4 and +4 cm.
- Height adjustment of the footrest: between -6 and + 6cm.

