

SKIN TRANSPLANTATION

We care



Innovative products in the field of burn surgery

MEEK Micrografting

Dermatomes and blades

Meshers and V-Carriers

Humeca

our company at a glance

We are an ISO 13485 certified medical technology company operating in over 70 countries globally. Our focus lies within the field of burns and skin grafting. We design and manufacture surgical tools necessary for medical experts to treat burn wounds at different stages in the operating theatre, i.e. from harvesting, to processing and eventually transplantation of skin grafts.

All of this is made possible by close collaborations with distributors in each country as well as direct contact with surgical teams in operating theatres and trade-fairs. We continuously gather clinical feedback, which enables our team to provide the level of support and service our customers – and your patients – deserve. We strive to help every burn victim in the world, together.

Our vision

To bring back quality of life for burn victims by placing the best possible toolset in the hands of skilled medical experts.

Our ambition

We have the ambition to help every burn victim in the world, together with our network of medical experts and distributors.

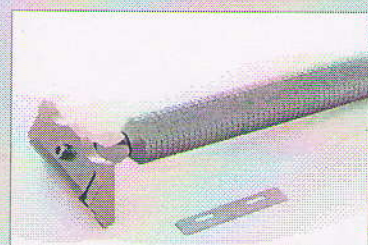
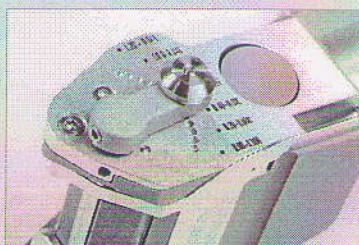
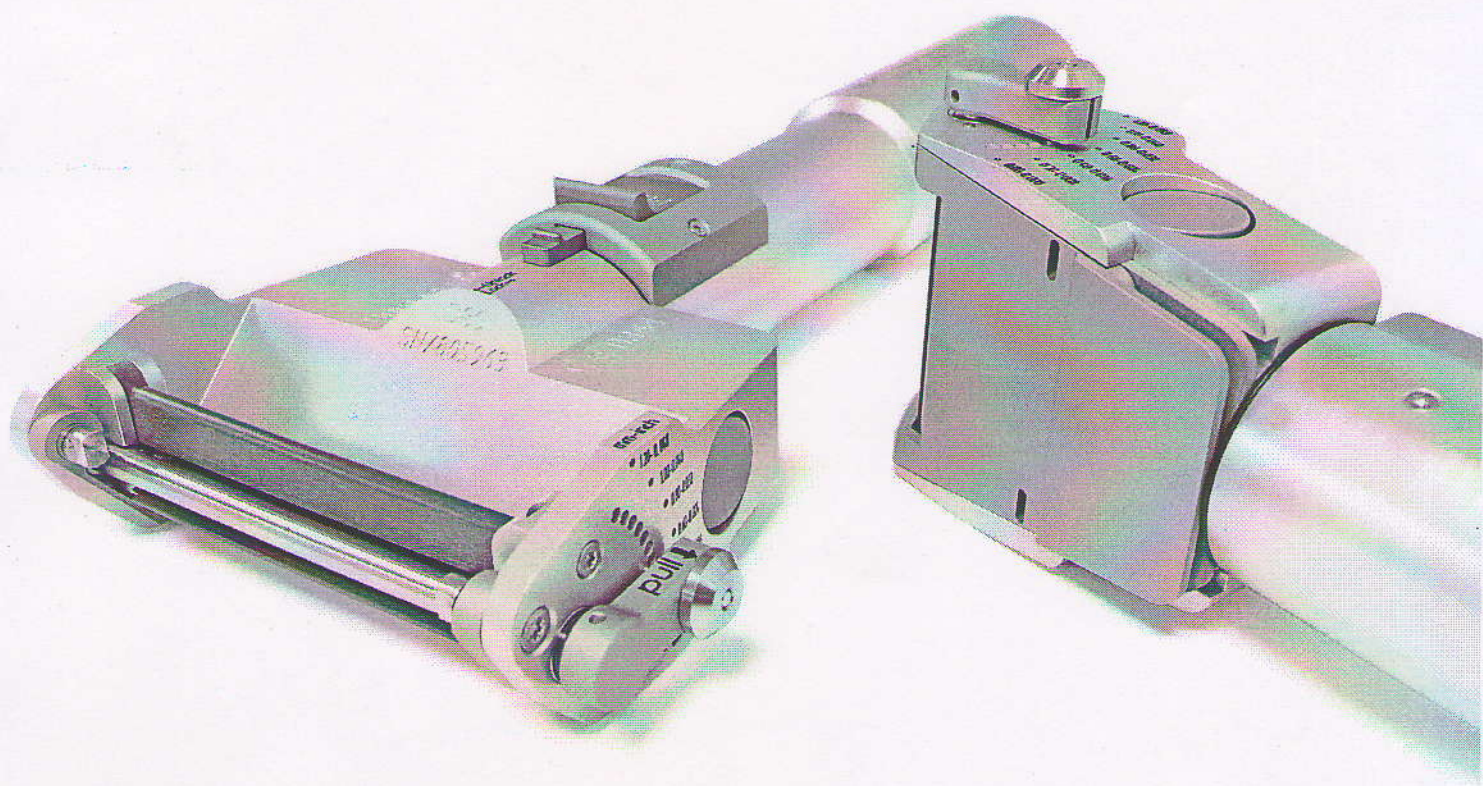
Our history

Humeca was established in 1981 and initially served as a mechanical engineering firm. This quickly changed when Humeca was approached by medical staff of a burn center in the Netherlands. The medical experts had been pondering on reviving a skin grafting technique long lost. The technique in question was the Meek-Wall technique, originally developed by dr. Meek in 1954 with the purpose of using as little donor skin as possible to cover an as large as possible burn wound. Back then, the technique involved many manual steps in order to cut skin in equally sized islands, individually glue them onto one gauze and then transplant them onto the wound. Despite positive results, the Meek-Wall technique was shelved when mesh grafting, a more convenient method of skin grafting at the time, was on the rise in 1964.

Humeca did its homework and started development of a machine which could simplify many steps of the Meek-Wall technique. The year 1993 marked the release of the modified MEEK technique. Not only was a machine designed to precisely cut skin grafts into identical individual skin islands but were gauzes pre-folded to fully control the distance between those skin islands. This technique enables us to precisely determine the expansion ratio and results in a uniform distribution of the skin islands on the wound bed.

After entering the field of burns, other products followed, such as cordless electric dermatomes and disposable blades in 2002 as well as meshers and disposable V-carriers in 2007.

Dermatomes and blades



The D80 and D42 dermatomes can harvest skin grafts with widths of 80 mm and 42 mm respectively. Both dermatomes are cordless, battery operated and come with enough power to smoothly harvest skin tissue. The larger D80 dermatome is a general-purpose dermatome and an excellent choice when large skin grafts need to be harvested. The D42 was made to be paired with the MEEK technique during which skin grafts of 42 mm x 42 mm (1.65" x 1.65") are needed. Incidentally due to its smaller size, the D42 dermatome can more easily harvest skin grafts from harder to reach donor sites. Disposable blades for both the D80 and D42 dermatomes ensure you'll never have to worry about dull blades.

In collaboration with the Dutch surgeon dr. Willem Nugteren, the Sober dermatome was developed. The Sober dermatome is a manual dermatome with a safety razor design. The Sober dermatome allows harvest of a 30 mm (1.25") wide and 0.25 mm (0.010") thick skin graft.

Additionally, Humeca supplies dermatome blades compatible with the following dermatomes:

- Acculan® 3Ti dermatome
- Padgett® B, C and S dermatomes
- Zimmer® 8801 and 8821 dermatomes

Features

D80 and D42 dermatomes

- Two configurations.
- Powerful Li-ion batteries ensure no cords will get in your way during use.
- Smooth harvesting due to blade movement reaching 7000 strokes per minute (unloaded).
- Width reducing clamps to tailor the harvested width of the skin graft.
- Depth setting easily adjustable and securely locks in place.
- User-friendly design to safely and quickly swap disposable blades.

Sober dermatome

- Lightweight anodized aluminium
- Integrated tool for blade replacement
- Cutting width: 30 mm (1.25")
- Cutting thickness: 0.25 mm (0.010")
- Dimensions [lxwxh]: 142 x 46 x 24 mm (5.59" x 1.81" x 0.94")
- Weight: 105 g

Blades

- Dimensions
D42 [lxwxh]: 50 x 18.8 x 0.38 mm (1.97" x 0.74" x 0.015")
D80 [lxwxh]: 90 x 18.8 x 0.38 mm (3.54" x 0.74" x 0.015")
Sober [lxwxh]: 38 x 8 x 0.254 mm (1.50" x 0.31" x 0.010")
- Stainless steel
- Symmetric design, double facet grinded blades
- Individually sterile packed in peel pouch.

Blades for non-Humeca dermatomes

- Stainless steel
- Individually sterile packed in peel pouch
- Humeca dermatome blades for Aesculap® / Acculan® are compatible with the Acculan® 3Ti dermatome. Equivalent Aesculap® blade part number GB228R.
- Humeca dermatome blades for Padgett® are compatible with the Padgett® B, C and S dermatome. Equivalent Padgett® blade part number 3539252.
- Humeca dermatome blades for Zimmer® are compatible with the Zimmer® 8801 and 8821 dermatome. Equivalent Zimmer® blade part number 00-8800-000-10.
- Dimensions [lxwxh]:
Aesculap® / Acculan®: 81 x 18.8 x 0.4 mm (3.19" x 0.74" x 0.016")
Padgett®: 111 x 32.5 x 1.44 mm (4.37" x 1.28" x 0.06")
Zimmer®: 106 x 32.2 x 1.9 mm (4.17" x 1.27" x 0.07")