

SKIN TRANSPLANTATION gives people a second chance

Innovative products in the field of burn surgery

MEEK Micrografting - Cordless dermatomes & blades - Meshers & V-Carriers - Cost-effective devices - Skin Stretcher

Humeca was established in 1981 in The Netherlands and is an innovative specialist in skin grafting technology- in particular in the field of burns surgery. Our products are used daily in more than 70 countries worldwide. We work together with 52 specialized local dealers and deal with hospitals and burn centers directly. With our revolutionary products, we provide medical experts with materials and equipment for optimum treatment of their patients and offer them the highest level of support and service. Humeca is an ISO and CE certified company. The focus and ambition to help every burn victim worldwide is important to be the leading burn specialist in the world.

Vision

Provide medical experts with materials and equipment for the optimum treatment of their patients. And offer these patients the chance on a renewed life where the quality of life has improved in comparison with a treatment with existing technologies.

Mission

Humeca has the focus and ambition to help every burn victim in the world, therefore we develop innovative products and make them available for all doctors worldwide.

MEEK Micrografting *a magical method that save lives*



Every doctor will admit, burn wound treatment involves multiple challenges. There is a great risk of infections and poor epithelialization and the lack of autograft donor sites is a limiting factor in achieving wound closure in cases of extensive skin defects.

Unique MEEK features

- Very small donor sites required;
- Large expansion ratios, up to 1:9, possible;
- Any small skin fragments can be used so no precious donor skin is wasted;
- Fast and uniform epithelialization due to close graft islands;
- Excellent graft take due to correctly orientated graft islands;
- Failure of a few islands does not affect overall graft take;
- Cosmetic results comparable with mesh grafts of a lower expansion;
- Grafts very easy to manipulate.

Cordless dermatomes & blades *wonderfully easy and accurate*



Humeca designed two cordless, battery operated dermatomes. A small one, the D42 and a larger one, the D80. The D42, a very maneuverable instrument, is an excellent tool in pediatric and general plastic surgery, especially for primary excision and harvesting grafts from curved surfaces. It also facilitates to harvest the 42x42 mm (1.65x1.65") grafts required for Humeca's MEEK technique, speeding up the procedure. The larger D80 dermatome was developed for more general use.

Cordless dermatomes features

- Extremely small head of D42 allows precision cutting, especially in problematic zones and pediatric surgery.
- Cordless, battery operated and lightweight design offers optimum maneuverability and mobility.

- Precise thickness of the graft from 0.0 to 1.2 mm (0.000 – 0.048") in 0.1 mm (0.008") increments.
- Graft width of 42 mm (1.65") assures optimum performance in combination with the MEEK technique.
- The use of width-reducing clamps on the dermatome head allow cutting of smaller graft widths.
- Battery and motor of the instrument are not sterilized, thus guaranteeing optimum durability.
- Thickness adjustment can be fixed to prevent accidental change of graft thickness during cutting.
- Safe and quick blade replacement.
- Powerful Li-Ion batteries with no memory effect allow long time cutting without intermediate charging.

Humeca also supplies blades that are compatible with:

- Aesculap® / B.Braun® cordless dermatomes;
- Padgett® dermatomes type B,C and S;

Mesher & V-Carriers

effective meshing with or without carriers



The Humeca mesher is provided with a unique spring mechanism that prevents the blades from excessive pressure on the carrier during cutting, thus increasing the life time of the blades. The mesher can be adjusted in two positions: one to fit V10- or Zimmer® carriers and one to fit V15- or

Aesculap® / B.Braun® carriers. During cutting, the carrier is guided both at the left and the right side to assure straight movement and exact connection of the grooves of a second carrier if applied. up the procedure. The larger D80 dermatome was developed for more general use.

Mesher features

- Robust and durable construction;
- Compatible with Humeca® V-carriers of all types (V10 and V15);
- Compatible with Zimmer® and Aesculap® / B. Braun® carriers;
- Spring mechanism prevents blades damage;
- Continuous rotational drive; no intermittent pulling of a ratchet;
- Measures lwxhx: 220x212x183 mm (8.7x8.3x7.2");
- Weight: 4.4 kg (9.7 lb);
- Cutting axis can easily be replaced;
- Individual blades can be replaced;
- Compact st. steel sterilization case available, lwxhx: 277x232x197 mm (10.9x9.1x7.8").

Cost-Effective Devices

simple, efficient, accessible



Specifically designed for effective surgery in developing countries. Based on experiences with surgery in third world countries and in close cooperation with experts in the field of tropical medicine, Humeca introduces a line of portable, economical and simple skin grafting devices. This product line offers the surgeon a low-

cost alternative to the more elaborate mechanical equipment used in burn treatment, especially when only small grafts are needed. Due to an attractively priced and durable, yet efficient construction, these devices are very suitable for the use in outdoor clinics and third world countries.

SOBER Dermatome features

- Robust construction;
- Wide availability of blades;
- No lateral movements are required;
- Accessible to low-resource health systems;
- Sustainable;
- Simple yet effective in use;
- Minimal maintenance.

SOBER Mesher features

- Expansion ratio 1:2.5;
- No additional disposables (carriers) required;
- No sharp blades axle;
- Small size and light-weight construction;
- Graft length is unlimited;
- Simple in use and low-maintenance;
- Accessible to low-resource health systems.

ECON Mesher features

- Expansion ratio 1:2.5 or 1:4;
- No additional disposables (carriers) required;
- No sharp blades axle;
- Graft length is unlimited;
- Simple in use and low-maintenance;
- Accessible to low-resource health systems.

Skin Stretcher

effective wound closure in a one-step procedure



Despite many developments and improvements in burn wound treatment, burn scars frequently result in a poor functional and cosmetic outcome for the patients. Although many reconstructive techniques have been described to improve burn scars, scar excision followed by direct wound closure can offer a favourable outcome, as it results in a smaller scar. Closing a large skin defect after burn scar excision can be difficult and therefore large burn scar excision is often performed in a multiple-step procedure (serial excision).

Skin Stretcher features

- Effective wound closure;
- One step procedure;
- Smaller scars;
- Developed in close cooperation with the Red Cross Hospital Beverwijk.



Life stories

read about Margreth and Jayan on our website www.humeca.com