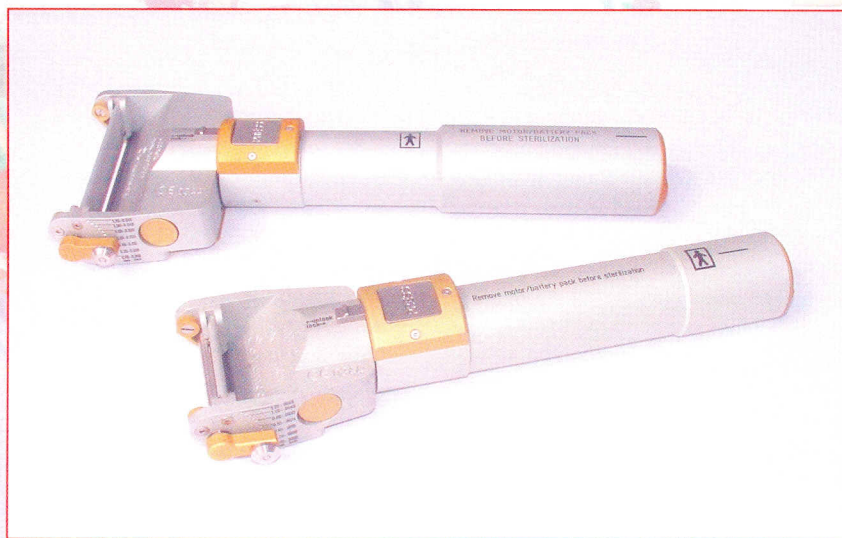
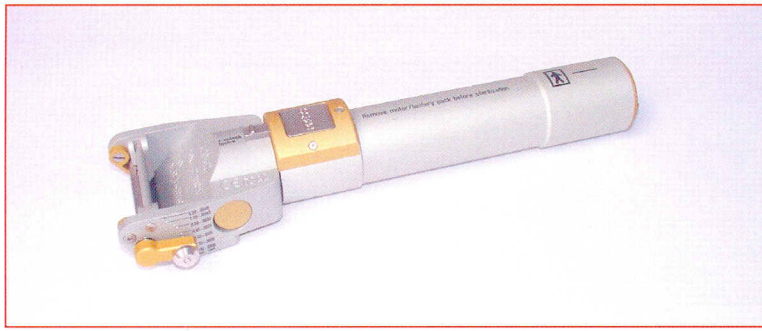


## The Humecca D42 and D80 cordless dermatomes

small and manoeuvrable skin cutting instruments



Result of cooperation between



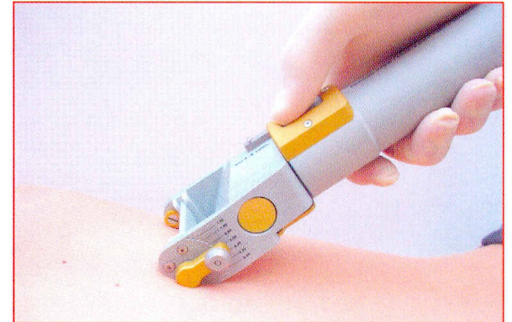
D42 dermatome with small diameter grip for 1200 mAh battery



D42 dermatome with clamp for 36 mm graft width



D80 dermatome with larger diameter grip and high capacity 2400mAh battery



Correct position of dermatome during cutting

## D42 and D80 dermatomes

Humecca designed two cordless dermatomes, the D42 and the D80. The D42 is the result of an attempt to design a small and lightweight battery operated dermatome. The head of the dermatome is 64 mm only and it cuts a graft width of max. 42 mm, which can be reduced to 36 and 30 mm by means of width reducing clamps (other cutting widths are optional). Through the use of lightweight materials, the total weight was limited to 1010 grams only, which is quite exceptional for a battery-operated dermatome.

This very manoeuvrable instrument is an excellent tool in paediatric and general plastic surgery, especially for primary excision and harvesting grafts from curved surfaces. The cordless design assures optimum mobility. Besides it facilitates to harvest the 42x42 mm grafts required for Humecca's MEEK technique.

The small diameter grip of this dermatome holds a rechargeable 7.4 Volts Li-Ion battery with a capacity of 1200 mAh for approx. 45 minutes non-stop cutting.

The larger D80 dermatome was developed for more general use. It cuts a width of max. 80 mm, which can be reduced to 65, 50 and 35 mm by means of width reducing clamps. The D80 dermatome has a wider head (104 mm) and the larger grip holds a very powerful 2400 mAh Li-Ion battery for more than 75 minutes non-stop cutting! (These are averages, as the actual cutting time obviously depends on graft thickness, type of tissue to be cut and the general condition of the battery).

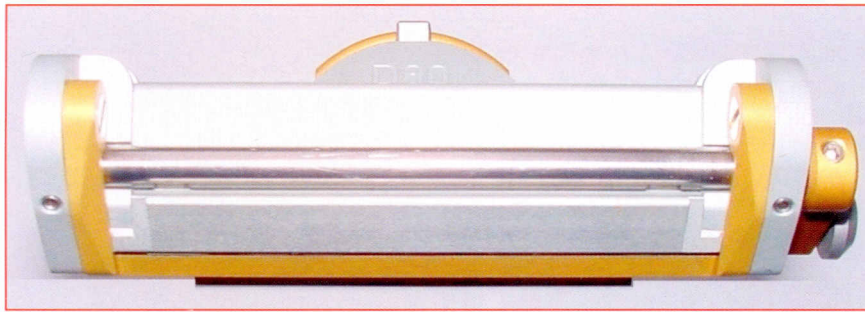
If desired, the D42 dermatome can be supplied with larger grip and powerful battery too, but standard version is with 1200 mAh battery, which capacity is considered to be more than enough for such a small dermatome.

The blades of the dermatomes are precision grinded in a double facet shape for minimum resistance and uniform graft thickness. The blade moves at a maximum speed of over 7000 strokes per minute (unloaded). This assures smooth cutting operation and enables also very thin grafting.

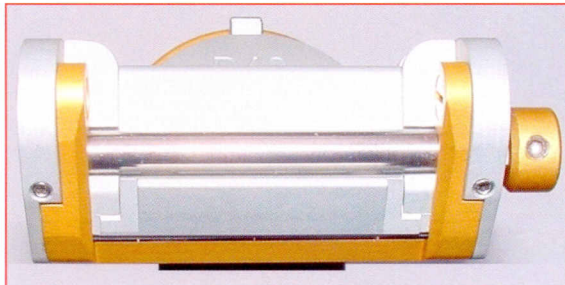
Graft thickness varies from 0.0-1.2 mm (0.000–0.048 inch) and is adjusted by means of an adjusting lever with readings on a thickness scale (in mm and inches). The lever is fixed at positions corresponding with thickness increments of approx. 0.1 mm (0.008 inch). Fixation of the lever prevents accidental change of graft thickness during cutting.

The battery and motor cartridges are not sterilized. To prevent accidental sterilization of these cartridges, a special autoclave case was developed that can only contain the dermatome when the cartridges are removed. Before use, the non-sterile cartridges are connected to each other and put into the power shaft of the dermatome by means of a sterile clamp and a sterile funnel to avoid bacterial contamination of the outside surface of the instrument.

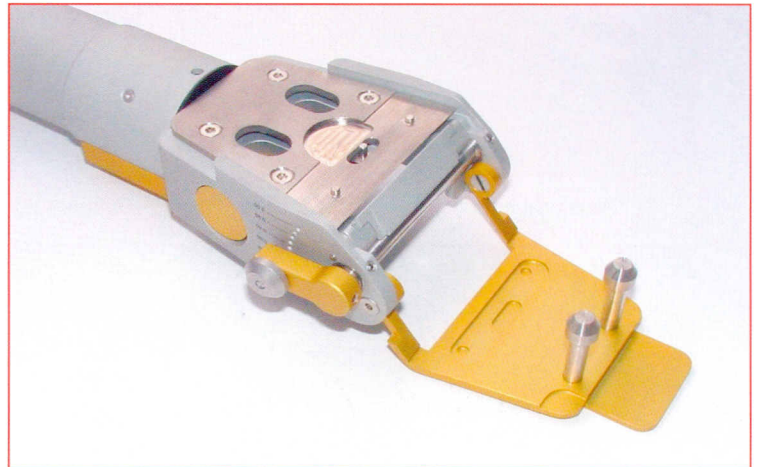
The batteries are fully charged in about 2½ hours. They are protected against short-circuiting, over-charge, over-discharge and overheating by means of a protection circuit board (PCB).



Pictures on the left side show the head of the D80 and D42 dermatome on a 1:1 scale



Picture below shows a D42 dermatome with blade cover completely opened for easy access to the blade compartment



## D42 and D80: features

- Extremely small head of D42 allows precision cutting, especially in problematic zones and paediatric surgery.
- Cordless, battery operated and lightweight design offers optimum manoeuvrability 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 assures optimum performance in combination with the MEEK technique.
- The use of width-reducing clamps on the dermatome head allows 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 without memory effect and very low leakage on the shelf allow long time cutting without the need for intermediate charging.

## D42 and D80: technical data

<b>Dermatome</b>		<b>Charger for 2400 mAh battery</b>	
Total weight D42, small / large grip	1.010 / 1.140 g	Loadable capacity / charge current	1000-13000 mAh / 1000 mA
Total weight D80, large grip	1.354 g	Power supply primary	100-240V / 50-60Hz
Weight motor cartridge	325 g	Nominal output voltage	7,4 VDC
Weight battery cartr. 1200 / 2400 mAh	170 / 255 g	Time to charge empty battery	2,4 h
Length dermatome with small / large grip	272 / 295 mm	<b>Charger for 1200 mAh battery</b>	
Width head type D42 / D80	64 / 104 mm	Loadable capacity / charge current	max. 3000 mAh / 500 mA
Maximum diameter small / large grip	40 / 45 mm	Power supply primary	100-240V / 50-60Hz
Cutting width D42 / D80	42 / 80 mm	Nominal output voltage range	5-8,4 VDC
Cutting width using clamps D42	36 and 30 mm	Time to charge empty battery	2,4 h
Cutting width using clamps D80	65, 50 and 35 mm	<b>Disposable blades</b>	
Graft thickness / increments (mm)	0.1-1.2 / 0.1 mm	Type	Double facet grinded
Graft thickness / increments (inches)	0.000 – 0.048 / 0.0004 “	Width / Thickness	19 / 0,38 mm
Stroke of blade	3,0 mm	Length D42 / D80	50 / 90 mm
Motor capacity / rpm	15 W / 7.030 min <sup>-1</sup>	<b>Autoclave case</b>	
<b>Battery</b>		Dimensions for D80 (lxwxh)	375x130x52 mm
Voltage / capacity battery pack, small	7.4V / 1200 mAh	Dimensions for D42 (lxwxh)	375x90x52 mm
Voltage / capacity battery pack, large	7.4V / 2400 mAh	Weight of case for D42 / D80	725 / 900 g
Battery chemistry	Li-Ion		

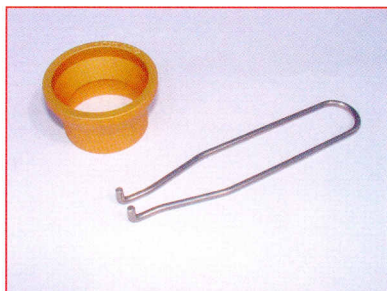
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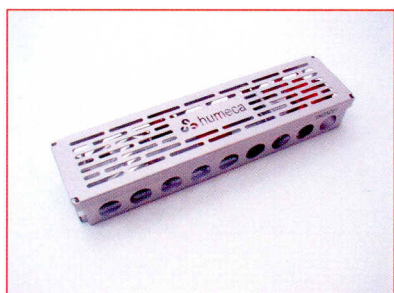
Motor/battery cartridge



Sterile funnel with clamp



Blade and box of 10 pcs.



Autoclave case



Width reducing clamp



Charger and support unit

### Equipment

4.D42STS	D42 dermatome, complete set, 1200mAh Li-Ion battery (standard)
4.D42STSx	D42 dermatome, complete set, 2400mAh Li-Ion battery
4.D80STS	D80 dermatome, complete set, 2400mAh Li-Ion battery (standard)
4.D42	D42 dermatome without battery- and motor cartridge with small grip for 1200mAh battery
4.D42x	D42 dermatome without battery- and motor cartridge with large grip for 2400mAh battery
4.D80	D80 dermatome without battery- and motor cartridge with large grip for 2400mAh battery
4.9C94142	Dermatome charger for Li-Ion batteries
4.SU01	Dermatome charger support unit
4.BC7.4V2400	Dermatome battery cartridge 7.4V, 2400 mAh
4.BC7.4V1200	Dermatome battery cartridge 7.4V, 1200 mAh
4.MCX15	Dermatome motor cartridge
4.D42CL30	D42 width reducing clamp 30 mm.
4.D42CL36	D42 width reducing clamp 36 mm.
4.D80CL35	D80 width reducing clamp 35 mm.
4.D80CL50	D80 width reducing clamp 50 mm.
4.D80CL65	D80 width reducing clamp 65 mm.
4.D42AC1	D42 sterilization case
4.D80AC1	D80 sterilization case
4.SCL	Sterile clamp
4.SF01	Sterile funnel for small diameter grip
4.SF02	Sterile funnel for large diameter grip

### Disposables

5.D42BL10	D42 dermatome blades, box 10 pcs.
5.D80BL10	D80 dermatome blades, box 10 pcs.
2.JG598	Oil for surgical instruments, bottle 50 ml



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