



BECdirectultra
precision at work



BECdirectultra

no compromises



The All-rounder

Enjoy full flexibility with the lightweight BECdirectultra from BECKTRONIC. The precision stencil is directly connected to a stainless steel flat profile frame and combines the advantages of a quick-tensioning and frame stencils in one product. Suitable for all electronic production and printing processes.

What this means for you:

- Significantly lower profile height (10 mm) compared with classic frames
- Low stencil weight of about 2.2 kg (depending on the stencil thickness)
- Multiple re-usability of the flat profile frame
- Can be used for any printing process: SMD (Ultra Fine Pitch, Fine Pitch, power components), glue printing, LTCC applications, step stencils
- Precision directly bonded with stainless steel flat profile frames (30/10 mm)

Key facts:

- Stencils available in all material thicknesses (30 μ m to 600 μ m)
- Stencil formats:
584 x 584 mm (23" x 23")
736 x 584 mm (29" x 23")
- Maximum squeegee area:
524 x 524 mm
676 x 524 mm



BECdirectultra vs. Frame stencil

BECdirectultra stands out against classic frame stencils through functionality and design as well as easy handling in daily use. Thanks to the innovative manufacturing process, the directly-bonded precision stencil offers a high-quality surface tension optimally adapted to the printing processes. Printing the finest structures with BECdirectultra is child's play.

Advantages over frame stencils:

- Significantly reduced space requirement: 66% less storage area in comparison with frame stencils
- The highest possible surface tension (> 50 N/cm²) for perfect printing results even with the finest structures
- No mesh weaknesses
- No loss of quality with long storage times
- Resource conserving: no screen filler or protective lacquer necessary
- Cost reduction by means of optimized manufacturing process combined with the re-usability of the frame
- All stencil finishing processes for further surface optimization available on request



vs. Quick-tensioning stencil

From the storage cabinet into the printer: With BECdirecultra self-tensioning frames become history. The directly-bonded precision stencil in the stainless steel flat profile frame reduces set-up times. Especially when it comes to very thin stencil thickness below 100 μm BECdirecultra scores: Tearing out of hole perforations is a thing of the past. Precise prints even with the finest structures point to the future.

Advantages compared to quick-tensioning stencils:

- The highest surface tension ($> 50\text{N/cm}^2$) for optimized printing processes
- Outstanding separating and release behaviour of the pastes for the best printing results even for the finest structures (0201, 01005, 03015, ...)
- 100 % more kink-resistance than any quick-tensioning stencil
- No risk of injury due to sharp edges
- Simple and safe handling and storage
- No tearing out of hole perforations
- Maintenance free and robust, self-tensioning frame not necessary
- Over 50 % lower overall weight
- All stencil finishing processes for further surface optimization available on request

BECdirectultra for OEMs

Why go new ways? There is nothing to be said against it and everything to commend it! BECdirectultra guarantees higher, more sustainable and process-optimized quality. The significantly higher surface tension provides better printing results. High durability, short set-up times and a long service life characterize this innovative product. Due to the reduced overall weight and the space-saving flat profile, day-to-day handling is significantly easier and noticeably faster.

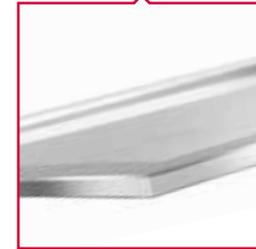
for EMS

Never change a running system? BECdirectultra can be used in parallel with conventional fixed framed and existing clamping systems. The alternative system opens the market for higher quality prints and finer structures. Process errors are significantly reduced by simplified setting-up and simpler infrastructure.

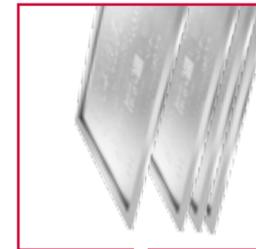
Advantages at a glance:



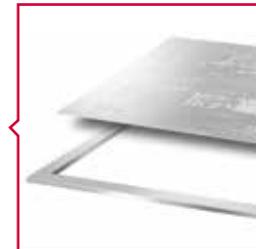
The highest possible surface tension.



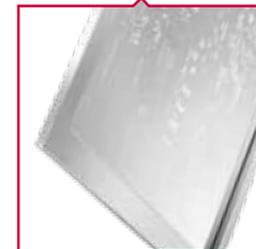
Compared with 30 mm x 30 mm frame, significantly narrower.



Significantly less space requirement for storage.



Multiple re-use, fewer set-ups.



Low stencil weight.



BECKTRONIC - comprehensive advice and short delivery times



Standard delivery times of one day – no additional fee or express surcharge

Free 4 hours express service – for quick-tensioning and prototype stencils

(for orders received before 3 pm)

BECKTRONIC
perfect. stencils.

We are happy to advise you free of charge and without obligation. Please call us on **+49 (0) 2743 9204-0**

www.becktronic.de