

# Special Electrically Heated Platens

For specific customer applications  
in industry and trade



KOMPETENZ IN HEIZPLATTENTECHNIK + SERVICE

Special electrically heated platens are developed and manufactured for all sectors of trade and industry according to the requirements of our customers.

Elkom special electrically heated platens have produced excellent results wherever special physical requirements exist with regard to compressive load capacity, surface precision, high temperatures or specific shapes and contours.

The fields of application range from engineering ( special presses, rubber and plastics presses, laboratory presses, heating and cooling presses ) via the vehicle and aircraft industry to gear production ( temperature control of gear components ) and the food industry ( roasting lines, baguette counters ) .

Furthermore , Elkom special heating systems have been developed for the solid surface industry and for the acrylic industry.

There is no standardisation according to sizes or heating power.

We concentrate on individual, rapid development and production. The design is determined by the physical requirements.

On request our special heated platens can be manufactured with the most diverse holes, recesses or surface finishes. Combinations with vacuum or compressed-air ducts. ( e.g. In diaphragm moulding presses or foil deep-drawing plants ) can also be realised.

**The emphasis in design and production lies on reliability and long lifetime . We do only install our exclusive , patented safety heating conductor system which has proven it's quality in over 70 000 Elkom platens , which have been supplied all over the world .**

High heating powers are achieved by a "sandwich construction" of several layers of aluminium sheets with the embedded heating conductor.

**As a result , the Elkom heating system is maintenance free , reliable and resistant to shocks , vibration , compressive load etc. , and has an extremely long lifetime , even in 3-shift operation conditions.**

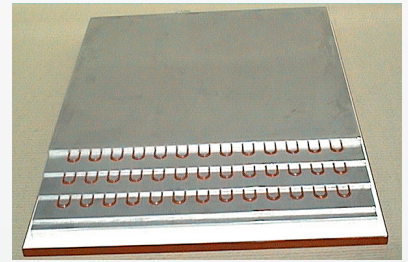
**Please contact us and notify your application problem in the greatest possible detail . The more application background we receive from you , the better we can develop and offer the fitting product that really meets your needs.**

**Your information will be kept absolutely confidential.**

## Technical data and limit values :

<b>Possible sizes :</b>	200 x 200 mm to 4000 x 2000 mm from one piece , larger areas possible with segmentation
<b>Heating power :</b>	up to 50 kW/m <sup>2</sup> . ( 5 W/cm <sup>2</sup> .)
<b>Voltage :</b>	230/400 or 400/690 V , all special voltages are possible
<b>Operating temperature :</b>	up to 250 ° C surface continuous temperature
<b>Compressive strength :</b>	up to 1200 N/cm <sup>2</sup>

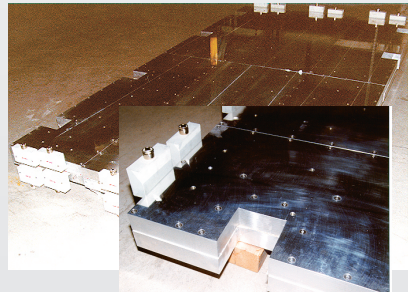
Surface finish according to customer requirements or technical necessity



Construction of an special electrically heated platen . **Our patented safety heating conductor system (DBP4239568) is embedded directly in precision cut grooves .** High heating powers are achieved by a "sandwich construction". Elkom heating platens are extremely reliable and unaffected by jolt , impact, vibration or compressive loads . Basically , no cartridge heaters or tubular heating elements susceptible to wear are used .



Example : Tool carrier heating platen for the auto industry ( interior part production) Tool weights up to 10 tons are reliably heated with a temperature of 250 ° C in 3-shift operation.



Example : Precision heating platen for the auto carpet production .  
Size : 4800 x 1700 mm  
Thickness : 60 mm  
Working temperature : 250 ° C



Example : Circular heating platen with handles for manual utilisation



Example : Shaped heating platens with radius 8000 mm



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