

mutzhas

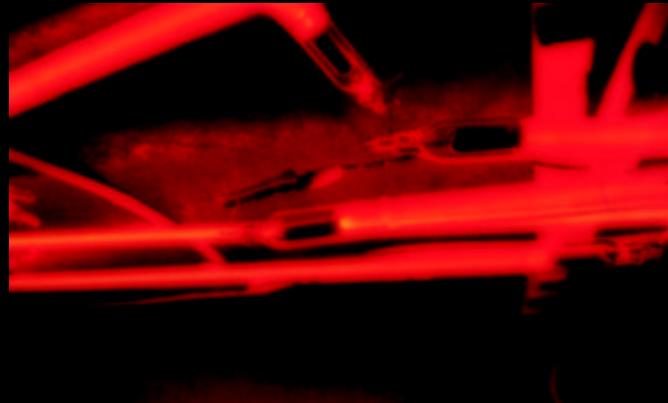
## Neon Lighting Concepts for Properties and Adverts.

### LIGHTS

Electric light is one of the standards by which modern society defines itself. It provides safety in darkness. It makes production possible at any time. It secures jobs. After all, it was lamps that first made human labour possible on a round-the-clock basis: down the mines, in jets flying across the night sky and at computer workstations. Shop window products shown in the right light simply look better. Meanwhile, at home, lamps create both atmosphere and a sense of well-being.

Mutzhas produces lighting in all its facets — individually tailored to any application and from a single integrated source. We run our own business; the tools are ours; the technology is ours; our standards of quality are unrivalled. The result? Lamps made to your specifications and quality criteria. Just tell us what you want in terms of design and performance and we will provide it.

Mutzhas. Showing things in a whole new light!



### NEON

Neon light is unsurpassed in terms of effect, is incomparable in its spectrum of colours and has unlimited design possibilities. Illuminating in every sense of the word, Mutzhas neon lights create space for new ideas.



### PERFORMANCE

With Mutzhas, you have a top-notch glass blowing plant for fluorescent lights. Just tell us your specifications and leave it to us. Our expertise combined with modern engineering ensures the highest quality — from production to installation. Our millimetre-precise fluorescent lights (made in a special annealing furnace) are now setting the standards in the world of lighting. We provide fluorescent lighting solutions and we produce to your individual design requirements.



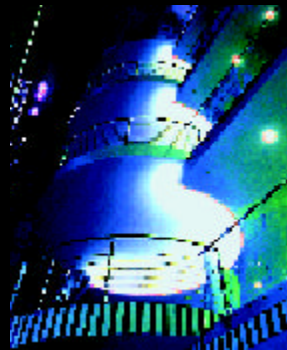
Creatively, professionally and on schedule.

### SERVICE

The examples shown here are typical for Mutzhas handcrafting — whatever the shape, whatever the colour. The special tube production process ensures that the lighting systems can be repaired and renewed if necessary. Which is good for the user and good for the environment. Our Fast Repair Service will also impress you. Because at Mutzhas service still means service. We think you and your customers will come to appreciate both the quality of



our products and of our service.



### LUMAX - SLIMLINE

The fluorescent light concept for lighting engineers, architects and interior designers.

Lumax® Slimline fluorescent tubes give rooms and buildings a whole new lease on life. Illuminate your property in a truly favourable light.

Use Lumax® Slimline to achieve varying light effects. Your architecture becomes a theatre backdrop of its own, creating a unique atmosphere. The possibilities are simply unlimited. Lighten up your being, lighten up your premises, with fluorescent tubes from Lumax!





#### COMPANY HISTORY

"Mutzhas Neon" began trading in Munich/Germany over seventy years ago. Production of special fluorescent tubes at the Essen plant started in 1968 with workers from the then Osram plant. Over the years, Mutzhas Essen has established its own profile as a producer of special lights whilst maintaining excellent relations with the Osram Group in Augsburg.

Two products worth singling out here:

- (1) the low energy cost-saving lighting system deployed since 1996 with great success in escalators and
- (2) the patented Slimline System for electronic control gear (with an efficiency rate of 100 lumen per watt).

Since 1998, Mutzhas and Hansen Technology have been collaborating on a research project into the operating behaviour of fluorescent lights with coated filament electrodes. The first results were impressive and are already in practical use.



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