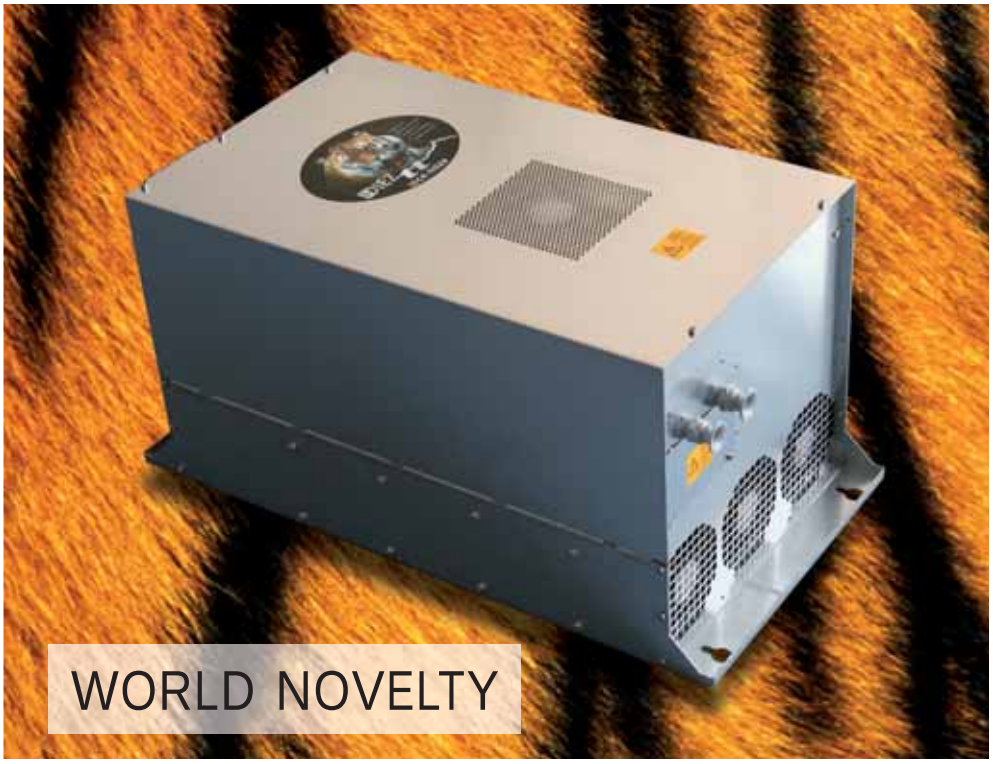
DIEZ TECK-TIGER



First fully-digital high-end electronic ballast with 32-bit processor for maximum available power

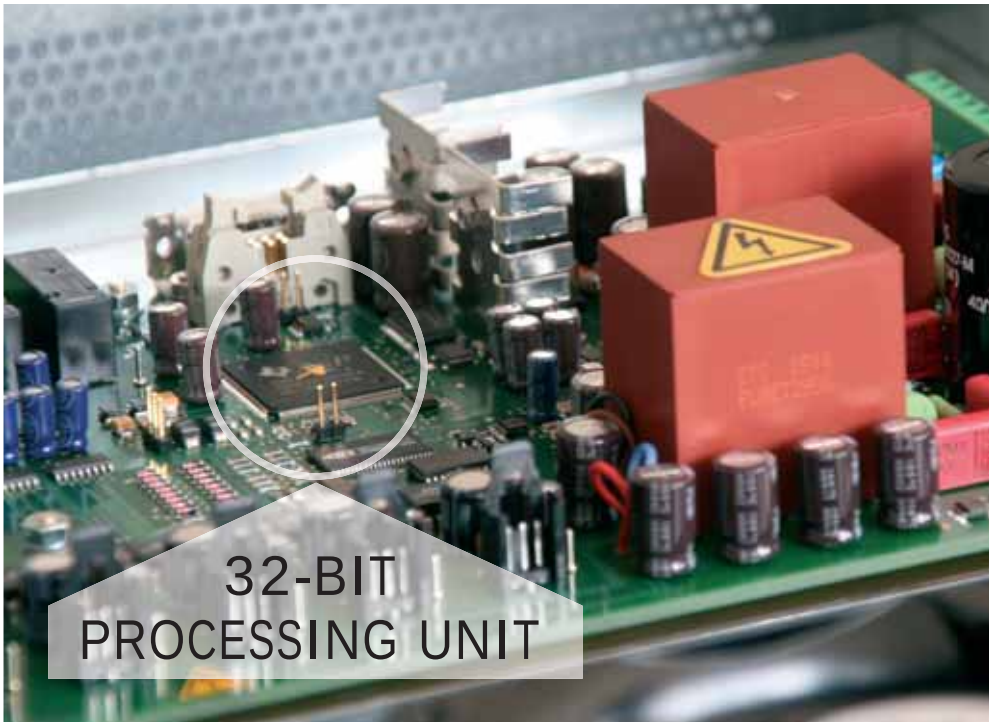
- Control rate < 10 ms
- Soft start on the network supply – lamp factor 1.0
- No dark period thanks to an operating frequency of 20 kHz
- Parameterisable
- Digital control guarantees high-precision consistency of curing results
- Convenient operation through minimal wiring in the control cabinet
- Integrated earth-fault monitoring

Compact interference-proofed design

Six-layer processing board

Radiator connection

DIEZ TECK-TIGER



Maximum security through 40.000 complete system scans per second

Magnetic engineering 50 Hz

- Output power cannot be changed without additional technology (thyristor controller or transductor)
- For lamp start, the input to the network must be designed for double current then operating at nominal value
- A slow 50 Hz network frequency means that the UV radiator undergoes 100 dark periods without radiation
- Speed of machine drive limited to 600 m/min
- High amount of wiring in the control cabinet, particularly if output power is to be controllable
- Weight (35 kW device): 250 kg

TECK-TIGER

- The 32-bit high-end processor produces sensational control rate < 10 ms!
- The mains current is never greater than during operation at nominal value, and is distributed symmetrically to the feeding network!
- There are no problems at all with the dark period thanks to the operating frequency of 20 kHz
- Speed of machine drive up to 900 m/min aspired to
- Extremely customer-friendly, minimal wiring: 3 conductors in, 2 lamp wires out
- Weight (35 kW device): just 80 kg

Further technical data for the DIEZ TECK-TIGER

- Maximum security through monitoring algorithms – monitoring for time and plausibility violations
- Secure broadband power supply for worldwide use
- Protected processor supply, including under extreme network conditions (complicated transient behaviour of neighbouring machines)
- 2 analogue inputs for radiator current and radiator power (0.2-10V:0.1-5V:0.4-20mA) – 3 analogue outputs for radiator current, radiator power and radiator voltage (0.2-10V:0.1-5V:0.4-20mA) – 3 digital inputs for freely programmable target values, 2 alarm relays freely programmable
- Medium frequency output stage protected by patent
- Waveforms for current and voltage are well-rounded, so that you avoid any electromagnetic compatibility problems
- Adjustment up to 100 setpoint step changes per second – and you save on power!

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