

# HPSL Spot

High Performance Semiconductor Lighting



LED

## LED lighting system for dental instruments



## Product use

- ✓ Spot with high luminous efficacy
- ✓ Favorable contrast and brightness in the work area
- ✓ Temperature color possible by replacing the HPSL spot
- ✓ Long life(100x more than a halogen lamp)
- ✓ Low power consumption – therefore low self-heating
- ✓ Microbially through nanocoating

### Description

HPSL SPOT®s are innovative LED-based illuminants, compatible with high-pressure halogen lamps for dental medical contra-angle handpieces, motors and turbines from various manufacturers. The applied and patented Heat-Transmit technology significantly increases the efficiency and reliability of the LED component. Low self-heating, long life and mechanical robustness, but also flexibility in color selection are just a few of the positive features of this product.

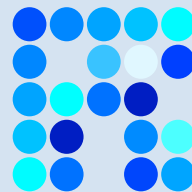
The construction of the HPSL SPOT® takes into account the targeted avoidance of undercuts, cavities and gaps within the spot. This makes cleaning and disinfecting particularly easy. A thin, invisible and chemically inert FC coating additionally reduces the adhesion of dirt and prevents oxidation of the electrical contacts.



Coating facilities  
Dosing systems  
2K-Dosing system  
Jet vents  
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UV-Oven  
Inspection systems  
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#### Connection compatibility

HPSL SPOT®s are compatible with high pressure halogen lamps from the following manufactures:

Kompatibilität	EPSYS HPSL SPOT®	Halogen-Äquivalent (Vergleich)	Anschlussprofil
KaVo® Motor Intra K-Lux KaVo Motor KL KaVo Turbine Multiflex®-Kupplung			
Sirona® SL-Motor Sirona/Siemens Turbinenkupplung			
BienAir® Mikromotor – <b>symmetrischer Aufbau, Lampe kann umgepolt werden</b>			
BienAir Turbine			
NSK® PTL CL			
NSK Turbine KL (Multiflex) NSK Turbine SL (Sirona)			

#### Technical Data:

HPSL SPOT®	Daylight	New-White
Max. Spannung [V]	3,7	3,7
Empfohlene Arbeitsspannung [V]	3,5	3,5
Strom bei Arbeitsspannung [mA]	ca. 70-80	ca. 70-80
Farbtemperatur [K] im Nahfeld (max. 5 cm)	ca. 4.500	ca. 3.500
Ausbreitungswinkel [°]	25 +/-5	45 +/-5
Lichtstärke (cd) @ 3,5V	12,9	6,2
Max. Temperatur (Stromlos) [°C]	Bis 110	Bis 110

#### Notes

- HPSL SPOT®s can only be operated with DC voltage. When mounting, pay attention to correct polarity. If there is no function, remove HPSL SPOT®, turn 180° around its own axis (reverse polarity) and replace.
- Voltage setting: Observe the recommended working voltage. The specified upper voltage limit may not be exceeded. You will find the adjustment of the light operating voltage from the operating instructions of the respective manufacturer or ask our technical advisor. Voltage measuring adapter can be loaned on request.
- The cleaning is done with a soft brush or cloth using usual medicine cleaners or disinfectants in processing concentration. HPSL SPOT® must never be cleaned in an ultrasonic bath. The semiconductor chip can be damaged irreversibly.
- Concentrated cleaners, organic or inorganic solvents can damage the HPSL SPOT® surface.
- All components and substances used in the HPSL SPOT®
- Safety note: Do not point the light beam directly at the eye. Danger of retinal damage. Beware of reflective surfaces.

EPSYS is a producer of manufacturing equipment and accessories for the process protective coating, drying and control. EPSYS offers the complete set-up and integration of the required components for assembly protection.

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