

UV Curing Lamps For Cefla—Delle Vedove

Cefla is part of a group of companies which includes Cefla Finishing (Cefla North America) and Delle Vedove (DV-Systems). Cefla's focus includes stand-alone UV curing dryers for inline flat panel and flooring. Delle Vedove known as DV-Systems in the States produces exceptional profile finishing and vacuum coating machines.

Many wood profile products use highly pigmented coatings, especially white. For white coatings thicker than 1.5 mils, a gallium-doped bulb followed by a regular mercury bulb provides optimum depth of cure together with good surface cure. Since the gallium iodide bulb provides depth of cure, it should be used before the mercury bulb.

For clear UV-curable coatings (top-coat), UVA and UVB [UV spectrum is divided into four regions: UVA (310 to 390 nm), UVB (280 to 310 nm), UVC (250 to 280 nm) and UVV (390 to 445 nm)] are the crucial output regions. Standard mercury vapor bulbs work the best for this type coating.

The bulk of the lamps we manufacture for Delle Vedove systems are gallium iodide. Unlike the screen exposure lamps we produce, Delle Vedove lamps have a longer arc. Producing lamps longer than 9-inch arc presents certain challenges to the lamp manufacturer. First and foremost is uniformity of cure. Take your standard 56-inch arc Cefla gallium UV curing lamp; if you measure along the length of the lamp you can discover radical differences in UVV intensity. All of a sudden you have curing issues; you call in the service technician and they confirm correct electrical parameters. They call in the lamp distributor and they will run a “hockey-puck” UV meter and they assure that all is well. You know it is not. Had you dealt with a lamp manufacturer such as TCS Technologies, we would be able to diagnose the problem and resolve the issue.

TCS Technologies produces a diverse lamp line for use in Cefla and Delle Vedove equipment. **Typical lamps include:**

H15K/56/5C23S1	1932	H15K/56/083/3516	Y18K/60AC/5C23S1
601100064	PM211700	400-300 GA	H15K/56AC/083/3516-G
H18K/60AC/108752	H18K/60AC+/5C24S1	Y15K/56AC/5C23S1	H15K/56AC/5C24S1
28-625-00132	28-625-00240	601100063	6254600067
1425AQX/GA	1425QX/GA	6254600024	9-52D018-000

9-52D016-000	9-52D011-000	9-52D019-000	A604042
A94111MCB	6556AC41	601100063	T923-380