

## Gema Powder Coating Systems - Superior By All Measures



### POWDER COATING OVERVIEW

Powder coating is increasingly accepted as the preferred finishing process for many applications. Increasingly stringent environmental regulations, rising costs in all areas, and demands by consumers for better quality and more durable products are among the challenges facing today's finisher. Powder coatings provides a solution to these challenges and others.

Powder coating is the technique of applying dry paint to the component. The powdered paint is normally applied by using a powder feed system and gun to electro statically charge and spray the powder onto the part. For some applications, the part being coated is dipped into a fluidised bed of powder.

The coated part is then heated in an oven, or via infra red panels, to melt and cure the paint. During the curing process a chemical cross-linking reaction is triggered and it is this chemical reaction which gives the powder coatings many of its desirable properties. The final cured coating is the same as a 2-pack wet paint.

Powder Coating gives a dry, clean, durable coating, and is environmentally friendly. Unlike liquid paint finishing where solvents are used, powder does not release Volatile Organic Compounds into the atmosphere. Unlike wet spraying, in many cases the over sprayed powder can be recycled for re-use. Powder coating itself generally requires a lesser degree of skill than wet painting.

Powder coating can produce much thicker coating than convectional liquid coatings without running or sagging. Additionally a wide range of effects are easily accomplished which would be impossible to achieve with other coating processes.

Capital equipment and operating costs for powder coating lines are generally less than for conventional wet spray lines. With one of the world's largest installed bases of powder application equipment, Gema brings the confidence and expertise that comes with being the global leader in powder coating equipment. Gema continue to explore new ways to guarantee customers cost effectiveness and quality.

Gema have revolutionised the industry with products like the OptiFlex 2 manual and Opti automatic powder coating systems, advanced booth systems like the Magic Cylinder and Magic Compact, time saving products like the Colour Change Centre, and the dependability of the ZA Reciprocator. The Surface Finishing Equipment Group brings our customers the decisive advantages in powder coating technology. We have vast experience in the supply and installation of their full range of powder coating equipment.

Gema's technology, quality, and research, coupled with the local backup and support of The Surface Finishing Equipment Group has brought our customers the decisive advantages in powder coating technology.

