



LEADING IN PRODUCTION EFFICIENCY

PAINTING SOLUTIONS FOR INDUSTRY

FROM STANDARDIZED APPLICATIONS
TO CUSTOMER-SPECIFIC SOLUTIONS



PAINING SOLUTIONS WITH CHAIN ON EDGE CONVEYOR TECHNOLOGY

Automatic painting machines are self-enclosed plant systems, consisting essentially of the following elements:

1	Reception of unmachined parts
2	Conveyor technology (chain-driven)
3	Pretreatment
4	Spray booth
5	Application systems and paint supply
6	Evaporation zone
7	Oven (up to 300 °C)
8	Cooling zone
9	Supply air systems
10	Approval of painted parts



- » The “chain on edge” conveys the products through various zones
- » Painting is done with **EcoGun** automatic paint guns or **EcoBell** electrostatic high-rotation atomizers, fixed, on an **EcoRecip** lift unit or using an **EcoRP** robot
- » Oven temperatures of up to 300 °C can be achieved
- » Depending on the chain length and spindle distance, up to 10,000 products are painted per hour
- » The chain conveyor can be expanded in modular fashion

Areas of use: e.g. the glass industry, ceramic industry, plastics industry

FLATBED PAINTING MACHINE

Painting of two-dimensional pieces

The application package is integrated into a flatbed machine. In the application field, Dürr offers full service solutions:

- » Automatic spray guns or high-rotation atomizers for an ideal application of paint
- » Material supply
- » Material pressure regulator
- » Dosing systems (1K/2K)
- » Integrated workpiece identification using a light barrier
- » Incorporated transport system (doctor blade belt or paper belt) according to ATEX guidelines suitable for Zone 1 and Zone 2

Areas of use: e.g. wood industry, plastics industry

The two-dimensional painting system is suitable for coating surfaces and edges as a flow-through system.

- 1 Grinding
- 2 Cleaning
- 3 Painting process
- 4 Evaporation
- 5 Drying
- 6 Curing (with UV light)



» Two-dimensional system for painting
e.g. wood frames



LEADING IN PRODUCTION EFFICIENCY

Dürr – Leading in Production Efficiency

Five divisions, one goal: maximum production efficiency for our customers

- » **Paint and Final Assembly Systems:** paint shops and final assembly systems for the automotive industry
- » **Application Technology:** robot technologies for the automatic application of paint as well as sealants and adhesives
- » **Clean Technology Systems:** exhaust-air purification systems and energy-efficiency technology
- » **Measuring and Process Systems:** balancing systems as well as assembly, testing and filling technology
- » **Woodworking Machinery and Systems:** machinery and systems for the woodworking industry