

# 15.0 Environmental Performance since 1970

## Relevant Environmental Measures .....

**1970** Change from spray to powder paint through the installation of powder coating facility

**1973** Installation of oil and petrol precipitator

**1974** Change to lead free powder types

**1980** Change to a combined energy fuelling system (gas/oil) for the central heating

**1984** Skimmer in spray booth upgraded

**1990** Change to cadmium free powder types

## ..... and the corresponding results

**1970** 80 % of metal parts are powder coated:  
Reduction in the emissions of solvents:  
Controlled disposal of sewage:  
Improved corrosion protection

**1973** Controlled drainage of surface water

**1974** Emissions of hazardous substances reduced

**1980** Reduction in hazardous emissions through  
change to environmentally friendly energy source:  
Usage of fuel oil only during peak time in  
winter

**1984** Waste disposal cycles are increased:  
With the use of skimmer technology paint  
residues are dried:  
Waste disposal costs are minimised

**1990** Use of non poisonous powder types:  
Environmentally friendly disposal of powder  
residues made possible:  
Emissions of hazardous substances reduced:  
Working environment improved

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**1991** Development of a waste disposal concept

**1995** Installation of a pyrolysis reactor:  
Change to TIGC-free powder types

**2001** Installation of a new powder coating facility

**2002** Roof of the research atrium is closed

**2003** Installation of EMS according to DIN EN ISO  
14001 and EMAS II

## ..... and the corresponding results

**1991** Disposal costs minimised:  
Fractioning of recyclables:  
Ground protection using sub soil foliation:  
Drainage of surface water made safer

**1995** No more need for chemical paint removal:  
No more contact with dangerous chemicals:  
Hazardous emissions containing solvents . . .  
discontinued:  
Powder paints used containing no poisonous .  
additives

**2001** Lower consumption of fresh water:  
Used process water converted to VE water;;  
Reduction in hazardous emissions:  
Efficiency improved with direct gas heating

**2002** Reduction in sound emissions

**2004** With the introduction of EMS environmental . . .  
aims are  
established and implemented