

MESH FENCE Powder Coating Line



Brief description

The metal fence is first preheated to a certain temperature and then passed through a fluidized bed of plastic powder where the powder particles melt, adhere and flow out to form a smooth continuous PVC coating. It is then post-heated to complete the curing of the outer surfaces.

Main technical parameters

- Your products need to be coated: Expanded metal mesh & welded wire mesh
- Application of finished products: fence system for highway, railway & industrial factory
- Max. size of workpiece: Length: 3000mm x Height: 2500mm
- Loading capacity on hanging hook: ≤ 50kg
- Output: ≥50-60 pcs per hour
- Heating source: natural gas (Other heating are also available: LPG, oil or electricity)
- Power supply: 380V/220V 50Hz
- Consumption of natural gas: 1700-2400m³/24hrs
- Consumption of cooling water: 0.5-1.0m³/h (circulated water)
- Total installed power capacity: 45kw
- Average electricity consumption: 40kw/h
- Required size of coating factory: L42×W12×H5.0m

Process

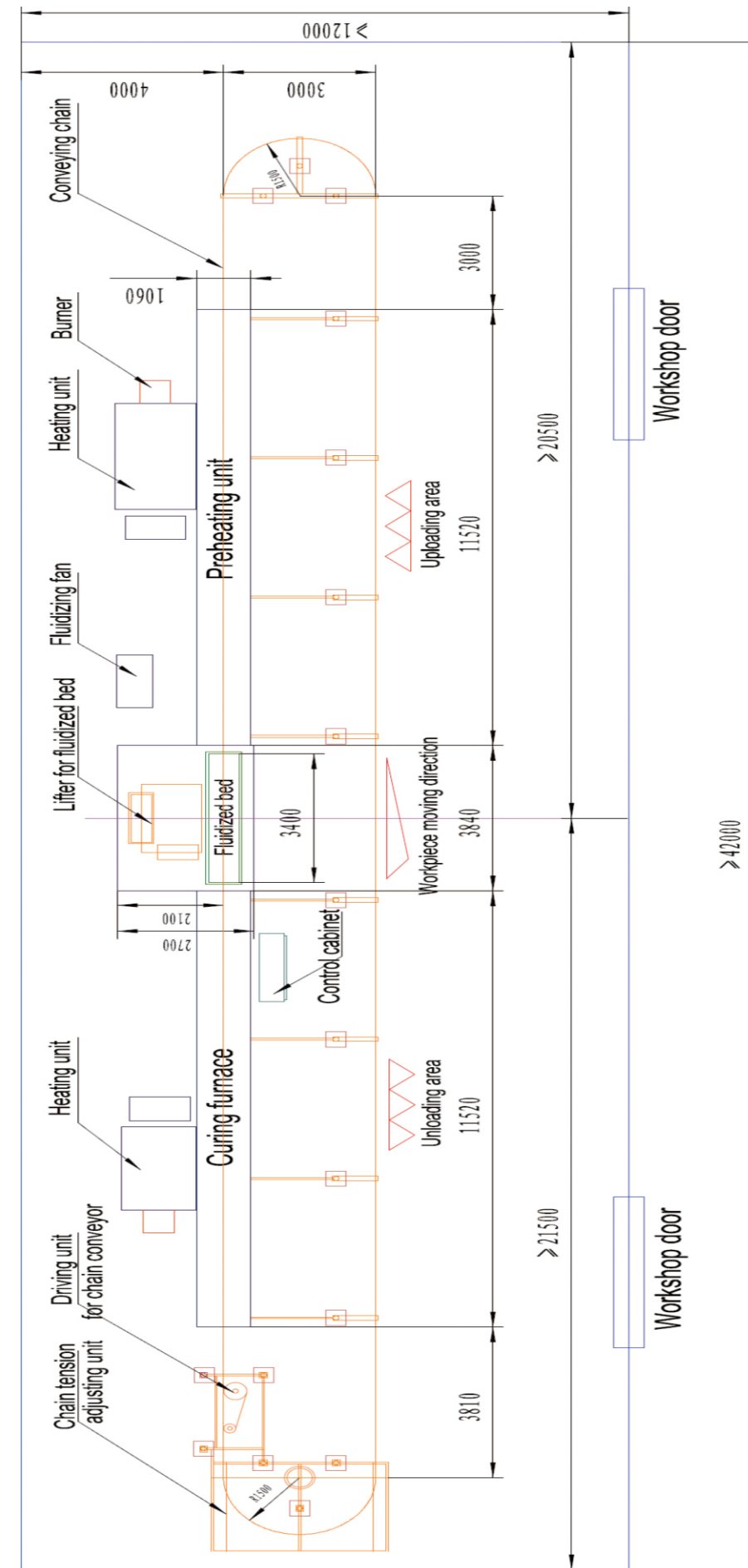
- Loading your objects on our powder coating line: room temperature
- Preheating furnace: 300-360 Celsius (4.5min)
- Fluidized bed for powder application: room temperature
- Curing furnace to melt solid powder into layer: 180-200 Celsius (3min)
- Unloading of finished products: room temperature

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LAYOUT PLAN of Mesh Fence Powder Coating Line



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DIESEL HEATING PVC Coating Line



Fluidized Bed Powder Coating Plant

Fluidized Bed Powder Coating Line



Roots Blower

Lifting Device

Steel Sheet Color Coating Line

FINISHED PRODUCTS Fluidized Bed Powder Coating



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GAS HEATING PVC Coating Line



Fluidized Bed Powder Coating Line

Installation in The Plant



Gas Heating Unit

Clear view of powder box and weight balance

Conveyor hanger (load 3 pcs of mesh fence)



Finished Mesh Fence

Finished Mesh Fence

Finished Mesh Fence

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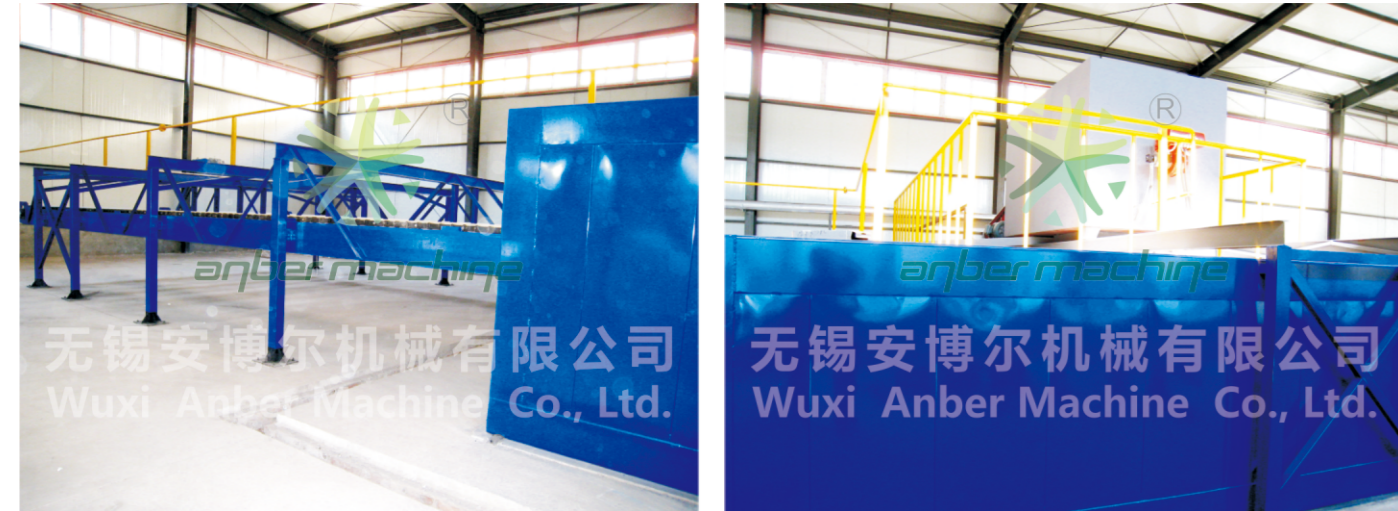


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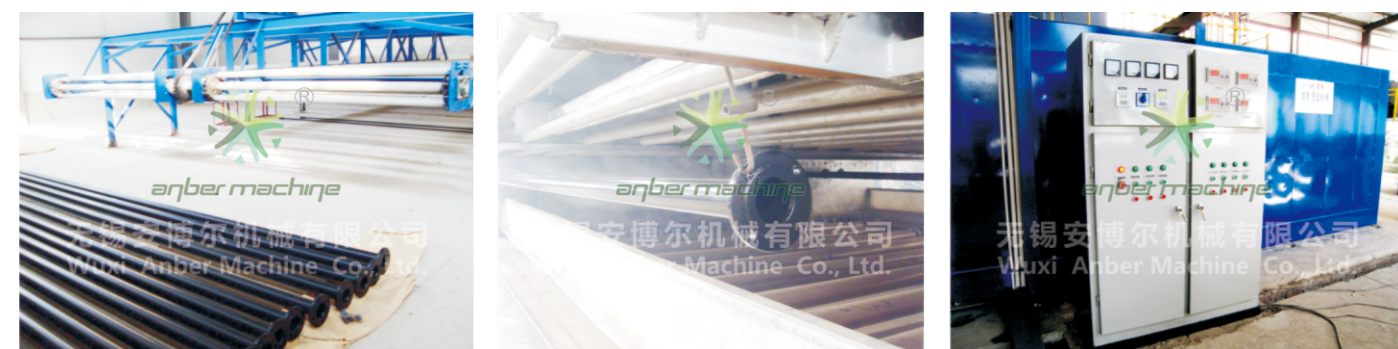
SELECTION GUIDANCE For Powder Coating Line

Your Contact Details			
Name	Country	Telephone	
E-mail	Company	Title	
Project <input type="checkbox"/> First purchase of expanded metal mesh line ;		<input type="checkbox"/> Expanding plan on expanded metal mesh line	
Workpiece need to be coated			
Name of workpiece			
Panel or Roll	<input type="checkbox"/> Panel ;	<input type="checkbox"/> Roll	
Material	<input type="checkbox"/> Steel ; <input type="checkbox"/> Galvanized Steel ; <input type="checkbox"/> Other:		
Size	Max. length(mm):	Max. width(mm):	Max. height(KG): Wire dia.(mm):
Weight (KG/ piece)			
Powder coatings	<input type="checkbox"/> PVC ; <input type="checkbox"/> PE ; <input type="checkbox"/> Others:		
Powder colour & RAL	(For example: Dark green-RAL6005)		
Coating thickness(um)	(1mm=1000um)		
Coating workshop			
Dimensions	Length(mm):	Width(mm):	Height(mm):
	No. of supporting pillar(pcs):	Distance interval(mm):	
Ground bearing capacity	Weight(kgs per square meter):		
	Ground excavation: <input type="checkbox"/> Yes, with digging depth(mm):		<input type="checkbox"/> No
	Overhead Crane: <input type="checkbox"/> Available ; <input type="checkbox"/> Not available ;		Water supply: <input type="checkbox"/> Available ; <input type="checkbox"/> Not available
Power supply	Power: V	Hz:	Available electricity capacity(Kw):
Environment requirement	Atmospheric emission: Concentration of discharged pollutants(mg/m ³):		
Detailed coating requirements			
Pretreatment	<input type="checkbox"/> Need: If need, please select: <input type="checkbox"/> Chemical , <input type="checkbox"/> Mechanical , <input type="checkbox"/> Sand blasting ; <input type="checkbox"/> No need		
Expected output	Operation schedule:	Tons per month:	hours per day; shifts operation
	Conveying speed:	meters per minute	
Heating source	<input type="checkbox"/> Natural gas, Fuel value(J/kg): (Burner brand: <input type="checkbox"/> Riello ; <input type="checkbox"/> Baltur)		
	<input type="checkbox"/> Electricity (Type: <input type="checkbox"/> Forced convection <input type="checkbox"/> Infrared radiation) ; <input type="checkbox"/> Oil-heating		
Degree of automation	<input type="checkbox"/> Full-automation (Requires vertical washer pretreatment system)		
	<input type="checkbox"/> Semi-automation (Needs manually transfer workpieces from pretreatment to powder coating line)		
Electrical control	Electrical element: <input type="checkbox"/> Schneider ; <input type="checkbox"/> Omron ; <input type="checkbox"/> ABB		
	PLC: <input type="checkbox"/> Mitsubishi ; <input type="checkbox"/> Siemens . Converter: <input type="checkbox"/> Mitsubishi ; <input type="checkbox"/> Siemens		
Controlling mode	<input type="checkbox"/> Central control ; <input type="checkbox"/> Separate control		
Facility installation & training	<input type="checkbox"/> Yes ; <input type="checkbox"/> No		
Please note that travelling and living expense for our technicians who sent to aboard will be borne by buyer. The buyer should also			
Payment	50% of total amount by T/T at the time of order confirmation Other 50% of total amount by T/T before shipment of Powder Coating Line		
Payment terms	<input type="checkbox"/> FOB ; <input type="checkbox"/> C & F ; <input type="checkbox"/> CIF		
Delivery time(days)			

METAL TUBE Powder Coating Line



Metal Tube Powder Coating Line



Metal Tube After PVC Finished Metal Tube Electric Control Cabinet

Description of pipe / tube PVC coating line

This Powder Coating Line is used to provide an anti-corrosive surface treatment for steel tubes & pipes, transportation tubes, Iron transportation tube, Steel transportation tube, underground pipeline, Natural gas tubes and so on.

Process of fluidized bed coating line

Manual feeding → Pre-heating → Auto powder immersion → Curing → Coated workpiece cooling → Manual discharging

Manual shaping correction → Quality control → Final package

Composition of complete anti corrosion pipe coating line

- (1) Auto electrical pre-heating & curing furnace;
- (2) Auto coating powder up-and-down device, vibration generator, fluidized bed;
- (3) Hanging delivery system, special hanger for workpiece;
- (4) Power supply control equipment, auto program control.

ROLL MESH Powder Coating Line



Roll Mesh Powder Coating Line



Mesh Decoiler Roll Mesh PVC Coating Machine Mesh Finishing

Main technical parameters

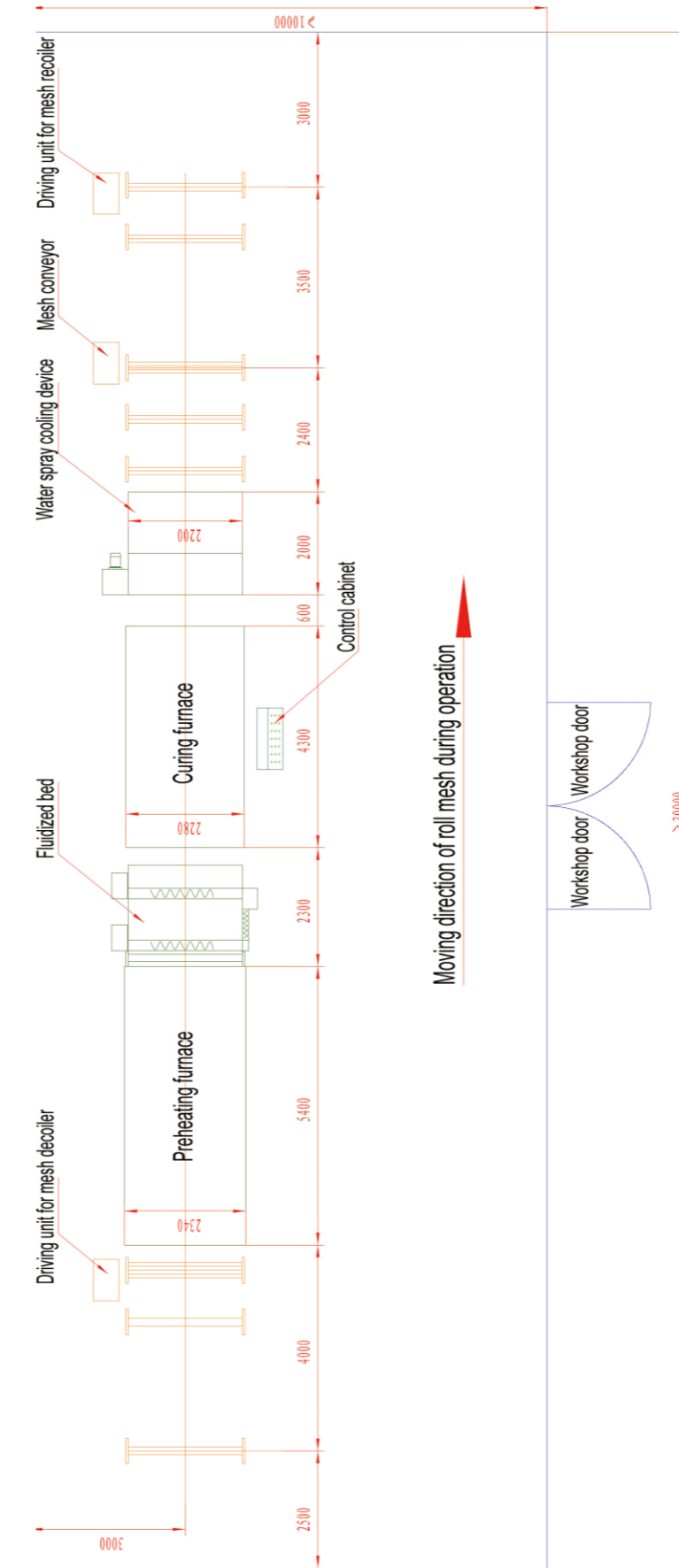
1. Your products need to be coated: Welded wire mesh in coil
2. Application of finished products: fence system for highway, railway & industrial factory
3. Max. size of workpiece: Length: 30000mm × Width: 1800mm
4. Output: ≥3-5m per minute
5. Heating source: natural gas (Other heating are also available: LPG, oil or electricity)
6. Power supply: 380V/220V 50Hz
7. Consumption of natural gas: 1500-1800m³/24hrs
8. Consumption of cooling water: 0.5-1.0m³/h (circulated water)
9. Required size of coating factory: L30×W10×H5.0m

Process

De-coiler → Pre-heating furnace → Auto powder coating in fluidized bed → Curing furnace → Coated workpiece cooling → Water cooling → Manual discharging of finished coil

Manual shaping correction → Quality control → Final package

LAYOUT PLAN of Roll Mesh Powder Coating Line



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HIGHWAY GUARDRAILS Powder Coating Line



Description of highway guardrails fluidized bed coating line

This powder coating line is used to provide an anticorrosive surface treatment for highway guardrails, guardrail fence, guardrail barrier, highway guardrail fence, highway guardrail barrier. As one kind of safety security, the finished products are great to be fencing for highway, railway, airport and so on.

Process flow of highway guardrails powder coating line

Manual feeding → Pre-heating → Auto powder immersion → Curing → Coated workpiece cooling → Manual discharging → Quality control → Final package

Composition of a complete powder coating line

- (1) Auto electrical pre-heating & curing furnace;
- (2) Auto coating powder up-and-down device, vibration generator, fluidized bed;
- (3) Hanging delivery system, special hanger for workpiece;
- (4) Power supply control equipment, auto program control.

FLUIDIZED BED Powder Coating Line

WHAT IS powder coating

Powder coating is an advanced method of applying a decorative and protective finish to a wide range of materials and products that are used by both industries and consumers. Its working principle of applying powder coating, called the fluidized bed method, is by heating the substrate and then dipping it into an aerated, powder-filled bed. The powder sticks and melts to the hot object. Further heating is required to finish curing the coating. This method is generally used when the desired thickness of coating is required, most cases it can exceed 300 micrometres. This is how most fence system are coated. Powder coating is the fastest-growing finishing technology in China representing over 10% of all industrial finishing applications.

WHAT ARE its advantages

More Durable
Powder coating gives consumers, businesses, and industry one of the most economical, longest-lasting, and most colour-durable quality finishes available. Powder coated surfaces are more resistant to chipping, scratching, fading, and wearing than other finishes. Colour selection is virtually unlimited with high and low gloss, metallic, and clear finishes available. And colours stay bright and vibrant longer.

Protects the Environment
Powder coating is also highly protective of our environment. While liquid finishes contain solvents which have pollutants known as volatile organic compounds (VOCs), powder coating contains no solvents and releases negligible amounts, if any, of VOCs into the atmosphere. Thus, there is no longer a need for finishers to buy costly pollution control equipment. In addition, most powder coating overspray that does not adhere to the part can be retrieved and reused, virtually eliminating the waste commonly found in liquid finishing processes.

Saves Money
Elimination of VOCs and reduction of wastes saves money and helps companies comply more easily with Government environmental legislation. In fact, one of the major elements in expanding the market for powder coating has been the implementation over the past 10 years of stringent air pollution control legislation.

WHERE IS powder coating used

Thousands of products and parts are currently powder coated:

Appliances
The appliance industry benefits from powder coating on front and side panels of ranges and refrigerators, washer tops and lids, dryer drums, air-conditioner cabinets, water heaters, dishwasher racks, and cavities of microwave ovens. Powder coating has also replaced porcelain enamel on many washer and dryer parts.

Automotive
The automotive industry uses powder coating on wheels, bumpers, hubcaps, door handles, decorative trim and accent parts, truck beds, radiators, filters, and numerous engine parts. A clean powder topcoat has been developed to protect auto bodies.

Architecture/Building
The architectural and building market powder coats aluminium extrusions used on frames for windows and doors and modular furniture. Many highway and building projects use powder coating on light poles, guard rails, signs, posts, and fencing.

Everyday Products
There are also innumerable everyday uses for powder coated products such as lighting fixtures, antennas, and electrical components. Farmers have powder coated tractors and farm equipment. Fitness buffs use golf clubs and golf carts, ski poles and bindings, snowmobiles, bicycles, and exercise equipment that are powder coated. Shop owners have powder coated display racks, shelves, store fixtures, and vending machines. Office workers use metal furniture, computer cabinets, mechanical pencils and pens, thumbtacks, and other desk accessories that are powder coated. Parents have powder coated baby strollers, cribs, metal toys, and wagons. And home owners have lawn mowers, barbecue grills, patio furniture, garden tools, electronic components, bathroom scales, tool boxes, and fire extinguishers which benefit from a powder coated finish.