

# Representative Uses of OMAX<sup>®</sup> Systems by Manufacturers

An increasing number of Original Equipment Manufacturers are using the OMAX system to produce components for their own manufactured products. Many of these manufacturers feel that the speed and flexibility of the OMAX system provides them with a competitive advantage in their industries and are not willing to provide detailed information about their applications. However, the following list provides a general summary of representative uses of the OMAX system by OEMs.

## **Aerospace applications include:**

- custom control panels and structural components for special purpose aircraft such as crop dusters and float planes
- rough trimming of turbine blades on jet engines
- aluminum skin, struts, seats, shim stock, brake components, titanium & exotic metals used in manufacturing landing gear

*Examples: Praxair, 4-Flight, Anoroc, Arrowhead, Metalcraft, A-Line, AIM*

## **Automotive applications include:**

- flanges for custom exhaust systems
- specialty metal gaskets for antique automobiles
- specialty clutch components for racing cars
- specialty brake disks and components for racing cars
- custom skid plates for off-road motorcycles
- intricate decorative brackets and fittings for custom cars & motorcycles
- copper head gaskets for racing engines
- short run production for the model shops
- JIT inventory control for piece parts on High Performance Radiators
- custom motorcycle bodies

*Examples: MoFoCo, Hussey Copper, Federal Mogul, Jerico Performance Products (Hi-Performance NASCAR Transmissions), Rolls Royce, Ron Davis Racing, Amen Chassis Works*

## **Medical applications include:**

- blanking out surgical instruments from special steel alloys
- cutting artificial limb components from carbon fiber composites
- manufacturing carbon braces and orthopedic appliances
- making prototype medical devices for test and evaluation
- model shop prototyping
- water only applications; cutting thin plastic used as dividers in cases that hold medical instruments before, during and after sterilization

*Examples: Johnson & Johnson, Westar Medical, Von Zybern Medical, Carr Metals, Hill Rom Corporation, Lab Engineering & Manufacturing, Inc., Seattle Orthopedic, Boston Scientific, Weck Closure Systems, Ernie's Tool Time*

## **Glass applications include:**

- special shaped window panels for cabinets and doors
- lens blanks (up to 2" thick) from glass and quartz
- glass components used in the electronic and medical industry
- optical laser parts for various high tech industries
- custom glass panels for the space shuttle
- replacement glass for antique autos
- art deco mirror designs

*Examples: Heraeus Amersil, Decorative Cabinet Panels, Machined Glass Specialists, Abrisa, Angie's Art Glass, Marino Engineering, Classic Auto Supply Company Inc., Rothe Joint Venture*



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## **Specialty Lenses**

- laminated lenses for adjusting color on HD-TV systems

*Examples: Colorlink, Boston Scientific, Sawyer Crystal*

## **Food Processing Equipment applications include:**

- components (primarily from stainless steel and plastic) for food processing lines
- guards, enclosures, food handling and packaging equipment
- custom food processing equipment
- orange juice manufacturing equipment
- specialty liquid filling equipment

*Examples: Bogner Industries, Brown International, Pack West, Waldrop, R&D Machine*

## **Electrical Equipment applications include:**

- custom and short run electrical enclosures and control panels
- custom designed elevator control panels
- components for portable generators

*Examples: Harris Electronics, Freiburg, Kauffman*

## **Semi-Conductor applications include:**

- quartz cutting equipment
- stainless steel parts for semi-conductor manufacturing

*Examples: Double R Machine, ADA*

## **Recreational Equipment applications include:**

- cutting composite cross bow limbs for cross bows and archery bows
- custom triggers for firearms and rifles
- motorcycle and ATV skid plates

*Examples: Horton Manufacturing, Timney, DH Gibbs*

## **Architectural Products applications include:**

- components for architectural trim and window systems
- custom designs in vinyl, stone and marble flooring and wall coverings
- sign letters in marble, glass, steel, aluminum, brass, plastics. etc.

*Examples: Drawn Metals Co, Leed Himmel Industries, Inc., L&M Architectural, Gomez and Associates, Dream Weaver Designs*

## **Musical Instruments applications include:**

- blank out valve components for instruments such as saxophones and clarinets
- intricate designs from material such as mother of pearl for custom guitar inlays

*Examples: United Musical Instrument*

## **Film Industry applications include:**

- cutting rigging components and props for movies
- some of the stylized weapons used in the film "Men in Black" were made with the OMAX
- equipment for camera travels (i.e., rails, motion systems for cameras)

*Examples: Milco, Filmaire*



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## **Gasket applications include:**

- copper head gaskets for racing engines
- metal and rubber gaskets for various industries.

*Examples: West Coast Gasket, Hussey Copper*

## **Model and R & D Shops applications include:**

- making architectural models to producing test fixtures and prototype components for automobiles and R&D labs
- short-run production

*Examples: General Motors Tech Center, Kodak, Xerox, Jet Propulsion Labs, Massachusetts Institute of Technology, General Electric, Lexmark Printers, Electrolux Home Products, Rolls Royce*

## **High Production Manufacturing applications include:**

- manufacture cross bow limbs
- punch die buttons
- small aerospace specialty parts and lenses (sights for rifles)

*Examples: Horton Manufacturing, Dayton Progress, Marino Engineering, AIM*

## **Industrial Processing Equipment applications include:**

- centrifuges
- Vapor Deposition Process (VDP) Targets
- profile knife blades for woodworking
- profile knives for recycling composite roof tiles
- profile knives for wood molding

*Examples: Barret Centrifuges Inc., Pure Tech, The Cayce Company, QualTech, Owens Tool, Sumatech*

## **Machine Tool applications include:**

- manufacture punch die buttons and strippers

*Examples: Amada, AIM*

## **Plastics Manufacturing applications include:**

- polyurethane products for a variety of industries

*Examples: Tulsa Plastics, Gallagher*

## **Elevator Manufacturer applications include:**

- manufacture elevators for high end homes, and smaller commercial applications such as nursing homes
- manufacture architectural components and metal fittings for elevators

*Example: Waupaca Elevator*

## **Wood Stove Manufacturer applications include:**

- used in lieu of plasma for their product line requiring a better quality edge surface and on short-run production of occasional one-off unit.

*Example: Country Flame Technologies*



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