UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 OR 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported) February 16, 2006

Brush Engineered Materials Inc.

(Exact name of registrant as specified in its charter)

Ohio	001-15885	34-1919973
(State or other jurisdiction	(Commission	(IRS Employer
of incorporation)	File Number)	Identification No.)
17876 St. Clair Avenue, Cleveland, Ohio		44110
 (Address of principal executive offices)		(Zip Code)
	Not Applicable ame or former address, if changed since last re	
·		•
k the appropriate box below if the Form 8-K fi ollowing provisions (see General Instruction A		filing obligation of the registrant under any of
Written communications pursuant to Rule 42	25 under the Securities Act (17 CFR 230.425)	
Soliciting material pursuant to Rule 14a-12 u	under the Exchange Act (17 CFR 240.14a-12)	
Pre-commencement communications pursuan	nt to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
Pre-commencement communications pursuan	nt to Rule 13e-4(c) under the Exchange Act (1	17 CFR 240.13e-4(c))

Item 7.01 Regulation FD Disclosure

On February 16, 2006, Brush Engineered Materials Inc., an Ohio corporation (the "Company"), updated the "Current Investor Update," a slide presentation on its website, a copy of which is attached hereto as Exhibit 99.1. This slide presentation shows the Company's corporate strategy and the financial results through the fourth quarter of 2005.

Item 9.01 Financial Statements and Exhibits

Exhibits:

Exhibit NumberDescription of Exhibit99.1Current Investor Update

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Brush Engineered Materials Inc.

February 16, 2006 By: Michael C. Hasychak

Michael C. Hasychak Vice President, Treasurer and Secretary

Brush Engineered Materials Inc. Profile

- Publicly traded since 1956: NYSE-listed since 1972.
- Founded 1931 as Brush Beryllium Company, recently celebrated 75th anniversary.
 - Building off earlier pioneering technical work at Brush Laboratories
 - Initial scope was development of commercial markets
- With onset of WW II and post war period, significant growth in defense and eventually, aerospace applications
- Mid-70s: major expansion of new commercial markets.
- Today, commercial markets represent 90% + of revenues

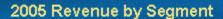


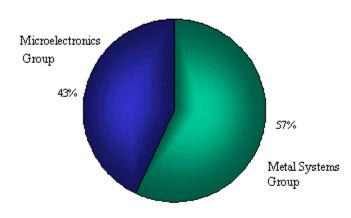
Brush Engineered Materials Inc. Profile

- A leading manufacturer of high performance engineered materials
- Operations, service centers and major office locations in North America, Europe and Asia
- Serving long-term growth oriented global markets:
 - Telecommunications and computers
 - Automotive electronics
 - Magnetic and optical data storage
 - Industrial components
 - Aerospace and defense
 - Appliance

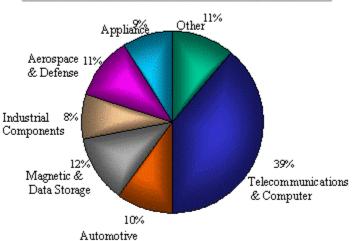


Global Leader in High Performance Engineered Materials





2005 Revenue by Market



Applications

- Handsets
- Routers **PDAs** Servers
- DVDs
- Connectors
- Note: Total 2005 revenues were \$541.3 million
- Plastic Molds
- X-Ray Windows
- Shielding
- Bushings
- Bearings
 - Notebook Computers
- Lasers
- Switches
- Fine Wire
- Relays
- Thin Film Circuits



Brush Engineered Materials Inc. "Advancing the World's Technologies"

- BEM Materials are found in a wide range of critical and demanding applications requiring:
 - Strength

- Reliability
- Thermal & electrical conductivity
- Miniaturization

- Weight reduction
- Corrosion resistance

- Reflectivity



Brush Engineered Materials Inc. End Uses



Cellular phones and other wireless communications



Notebook and network computers

Electronic components in cars and trucks



Life enhancing devices



Magnetic & Optical Data Storage

Industrial products





Investment Highlights and Strengths

- Global Leader in High Performance Engineered Materials
- Unique Status as Fully Integrated Provider of Beryllium-Containing Products
- Broad Metallurgical Capabilities in Precious and Non-precious Metals
- Global Sales and Distribution Network
- · Sales Based on End User Specifications
- Strong Value Proposition in Served Markets
- Strategic Customer Relationships
- Significant Technical Capabilities
- · Positive Long-term Market Trends
- · Strong Growth in New Products
- · High Barriers to Entry
- · Capacity to Support Profitable Market Growth
- Strong Balance Sheet



Brush Engineered Materials Inc. Organized into Two Separate Reportable Segments

Metal Systems

Alloy Products

Beryllium Products

Technical Materials, Inc.

Brush Resources Inc.

Microelectronics

Electronic Products

Williams Advanced Materials Inc.



Metal Systems Group - 2005 Sales: \$306 million

Alloy Products

\$208.2 million; 39%

- Copper and nickel-based alloy materials, most of which incorporate beryllium
- Strip products are used in electronic connectors including PDA's, wireless communications equipment, notebook and network computers and automotive electronics that require high strength, formability and electrical conductivity
- <u>Bulk products</u> are rod, bar, tube and plate products for heavy equipment and aerospace bushings and bearings, oil & gas components and plastic mold materials where strength, corrosion and wear resistance, thermal conductivity and lubricity are critical performance requirements

Technical Materials, Inc. (TMI)

\$49.9 million; 9%

- Engineered material systems, including clad, plated and electron beam welded metals used in demanding connector applications
- Combines precious and non-precious metals in strip form for use in complex electrical components for telecommunications systems, computers and automotive electronics













Metal Systems Group - 2005 Sales: \$306 million

Continued

Beryllium Products

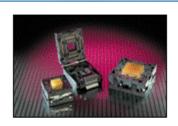
\$42.6 million; 8%

 Pure beryllium and aluminum-beryllium composites for high-performance applications, principally for medical, space and defense applications where stiffness, strength, lightweight, dimensional stability, reflectivity and x-ray/nuclear properties are critical.

Brush Resources

\$5.6 million; 1%

 Brush Resources sells beryllium hydroxide produced through its Utah operations to outside customers and to businesses within the Metal Systems Group.











Microelectronics Group - 2005 Sales: \$235 million

Williams Advanced Materials (WAM)

\$209.6 million; 38%

Precious metal and specialty alloys for high reliability applications

Products include precious and non-precious metal vapor deposition targets, frame lid assemblies, clad and precious metal preforms, high-temperature braze materials and ultra fine wire.

Industries served include magnetic and optical data

Industries served include magnetic and optical data storage media, semi-conductor, performance film and wireless photonics

Electronic Products

\$25.4 million; 5%

Products include beryllia ceramic materials, electronic packaging and thick-film circuitry Products designed to meet exacting performance requirements of target customers Industries served include wireless telecommunications, medical laser, aerospace, defense and automotive











Fully Integrated Beryllium Producer

- Beryllium and beryllium alloys are critical to many high performance applications
 - Strong

High reliability

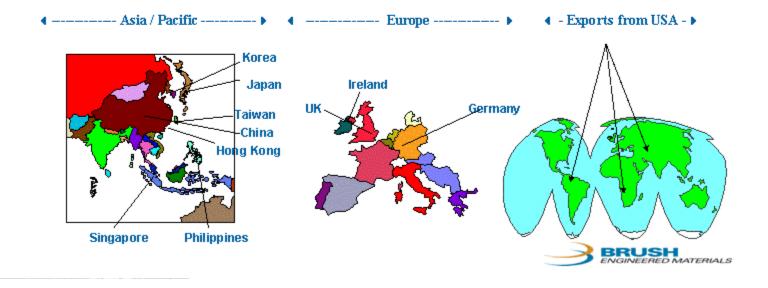
Lightweight

- Thermal and electrical conductivity
- Good formability
- Corrosion and wear resistant
- · Operate the only active bertrandite ore mine in the developed world
 - 7,500 acres in Juab County, Utah
 - Approximately 100 years of proven reserves



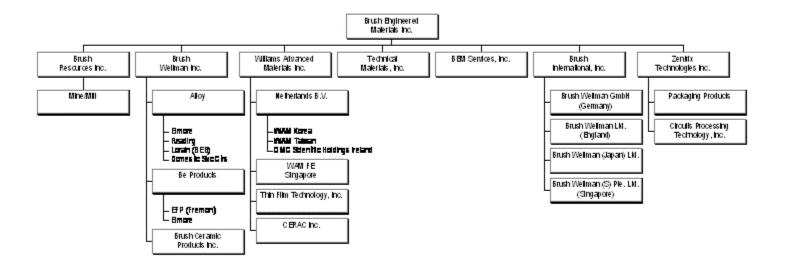
Global Sales and Distribution Network

- Operations in the U.S. and ten foreign locations
- Recent expansion to Taiwan, China and Korea
- International sales for 2005 were 33%





Corporate Structure

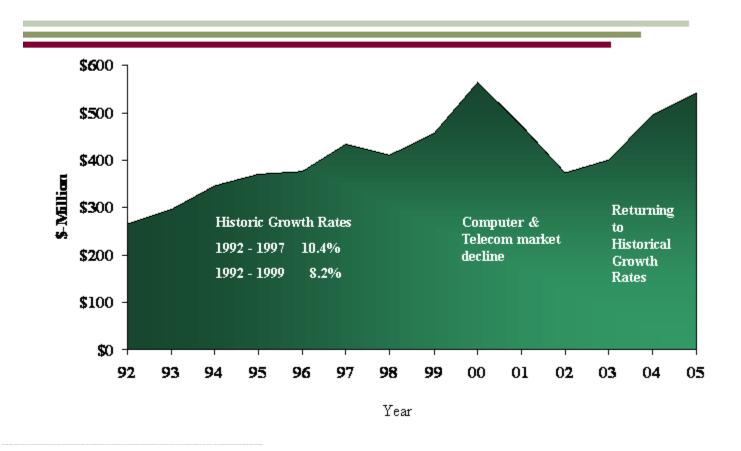


Key Financial Statistics

	2002	2003	<u>2004</u>	2005
Sales	\$372.8	\$401.1	\$496.3	\$541.3
EBIT	(22.6)	(8.9)	25.0	19.5
EPS	(2.15)	(.80)	.86	.92
G.P.%	12.9%	18.2%	22.4%	20.3%
O.P.%	(6.1%)	(2.2%)	5.0%	3.6%
Depreciation & Amort.	20.6	20.7	22.2	22.7
Capital Spending	5.4	6.3	10.1	14.2
Debt (1)	118.7	99.2	72.5	57.2
Cash	4.4	5.1	49.6	10.6
Debt/Total Cap.	43%	39%	26%	21%

⁽¹⁾ Includes in 2002, synthetic lease

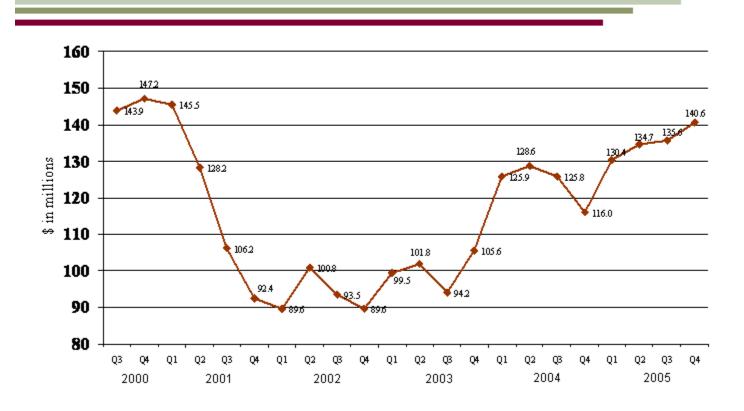
In 2001, the computer and telecom market decline drove sales back to mid-90's levels
In 2003, growth began to return to historical rates
In 2004 and 2005 growth accelerated



The decline in the telecom/computer market resulted in a 50% drop in the market segment's revenue comparing 2003 to 2000. Since 2004, this market continues to grow.

\$ in millions					
	<u>2000</u>	<u>2003</u>	2004	2005	Change _04-05
Telecom/Computer	\$277	\$139	\$206	213	\$ 7
Automotive	62	53	59	53	(6)
Industrial	62	42	43	43	0
Magnetic and Optical Data Storage	56	53	52	67	15
Defense/Aerospace	34	37	49	58	9
Appliance	19	27	33	46	13
All Other	<u>54</u>	50	<u>55</u>	<u>61</u>	6
	\$564	\$401	\$497	\$541	\$44

The 4th quarter 2005 was the twelfth consecutive quarter where sales were higher than the comparable quarter of the prior year.



Positive Market Trends

- Electronic component manufacturers are being driven by end user demands to produce products that are smaller, lighter and faster
- Increased electronic component performance characteristics require materials that have enhanced mechanical, electrical and thermal properties
- Growing opportunity for thin film physical vapor deposition (PVD) products in the LCD, data storage and semiconductor markets
- Spending and conditions in the telecommunications and computer market have improved
- Conditions have improved in the oil and gas, undersea, aerospace and heavy equipment markets.

Brush has generated year-over-year sales growth in twelve consecutive quarters

Capacity to Support Profitable Market Growth

Well-positioned to support rapid sales growth without significant incremental cash investment

- Operating with significant available excess capacity
 - \$140 million invested between 1996 and 2000
 - Alloy Products capacity utilization is currently at 50%
- · Significant productivity gains in recent years

Financial and Operational Initiatives

Our on-going performance improvement initiatives are focused on five key areas

- Expanding and diversifying the revenue base
 - New products

- New markets

- New applications

- New geographies
- · Improving margins through increased operating efficiency
 - Six Sigma and Lean Manufacturing
- · Controlling overhead costs
- Maintaining a strong balance sheet
- · Positioning for global market growth
 - Improve quality, cost, speed and service

Expand and Diversify Revenue Base

BEM continues to aggressively work to broaden its base with initiatives targeted at new products, new end use markets and new high-growth regions

New Products

- Alloy 390 Telecom & Datacom
- PM Plated Strip Telecom & Auto
- Toughmet Bushings & Bearings
- MoldMax XL Plastic Molds
- Welded Tube Oil & Gas
- Silver DVD Alloy (Silx) -DVD
- Visi-Lid Telecom & Military

New End Use Markets

- Alloy
 - Heavy Equipment
 - Pumps, Valves, Fittings
 - Oil & Gas Safety Components
- WAM.
 - Semiconductors
 - Data Storage
 - Magnetic Media
 - Thin Film
 Transistor/Liquid
 Crystal Display

New High-Growth Regions

- Singapore
- Taiwan
- Hong Kong
- Korea
- China

Improving Margins Through Increased Operating Efficiency

Lean Manufacturing and Six Sigma initiatives enabled Brush's Alloy Products business to improve operational efficiency and reduce costs from 2002 to 2005

- Increased pounds sold per employee 18%
- Increased pounds shipped 50%
- Reduced inventory¹ 41%
- · Improved yields 12%
- Reduced manufacturing overhead 20%
- Improved safety performance 43%
- Reduced unplanned equipment downtime 35%

1days of sales on hand

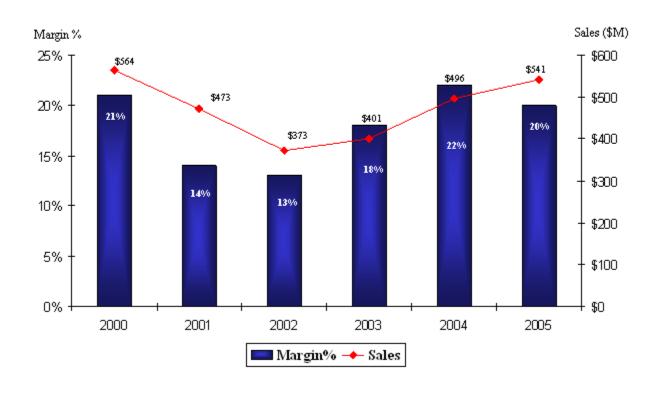
Reduce Debt Obligations

$A\ significant\ reduction\ in\ debt\ obligations\ has\ occurred.$

(\$ in millions)

	2000	_2004_	<u>2005</u>
Balance Sheet Debt & AEP Lease	\$128.4	\$ 72.5	\$57.2
*Off-balance Sheet Leases	<u>17.9</u>	<u>13.1</u>	11.8
Total	\$146.3	\$85.6	\$69.0
Debt to Debt Plus Equity	36%	26%	21%
*Note - Excludes precious metal consignment and leases of:	\$51.0	\$17.1	\$43.7

Historical Gross Margins



Segment Sales Review

\$ in millions	200	2002		2003		
_	\$_	_%_	\$_	%		
Metal Systems	\$233.6	63%	\$243.7	61%		
- Alloy	151.9	41%	162.3	40%		
- TMI	44.4	12%	41.9	11%		
- Beryllium Products	31.6	8%	35.2	9%		
- Brush Resources*	5.7	2%	4.3	1%		
Microelectronics	\$139.2	37%	\$157.3	39%		
- WAM	109.1	29%	127.8	32%		
- Electronic Products	_30.1	<u>8%</u>	29.5	<u>_7%</u>		
• TOTAL	<u>\$372.8</u>	100%	<u>\$401.0</u>	100%		

^{*}Effective 1/1/05 Brush Resources Inc. is included in Metal Systems Group. Prior years have been restated to reflect this change.



Segment Sales Review

\$ in millions	2004		2005		
-	_\$_	<u>%</u>	\$	<u>%</u>	
Metal Systems	\$300.7	61%	\$306.3	57%	
- Alloy	202.9	41%	208.2	39%	
- TMI	53.6	11%	49.9	9%	
 Beryllium Products 	39.5	8%	42.6	8%	
Brush Resources*	4.7	1%	5.6	1%	
Microelectronics	195.6	39%	235.0	43%	
- WAM	165.7	33%	209.6	38%	
 Electronic Products 	29.9	_6%	<u>25.4</u>	5%	
• TOTAL	<u>\$496.3</u>	100%	<u>\$541.3</u>	100%	

^{*}Effective 1/1/05 Brush Resources Inc. is included in Metal Systems Group. Prior years have been restated to reflect this change.



Segment Earnings 2001 - 2005

\$ in millions	<u>2001</u>	2002	2003	2004	<u>2005</u>
Metal Systems	\$(16.9)	\$(34.8)	\$(16.0)	\$4.5	\$6.3
Microelectronics	4.6	3.8	12.6	18.5	19.0
Other	(1.8)	8.2	(5.5)	2.0	(5.8)
Total Operating Profit	<u>\$(14.1)</u>	\$(22.8)	<u>\$(8.9)</u>	\$25.0	\$19. <u>5</u>

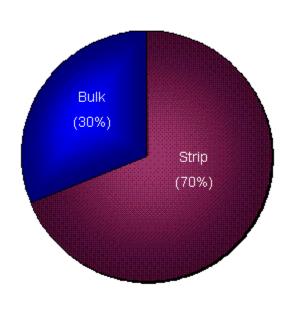


Brush Wellman Alloy Vision

Brush Wellman is the leading supplier of High Performance Copper Alloys worldwide, providing manufacturing excellence in the form of high reliability products and services to satisfy our customers' most demanding applications. We provide these services in a culture of local support and global teamwork.



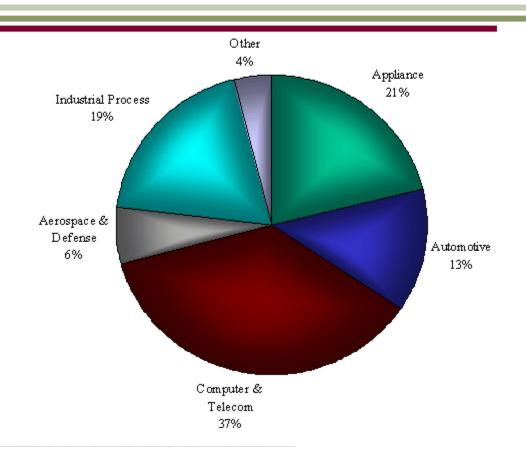
Alloy Products Markets



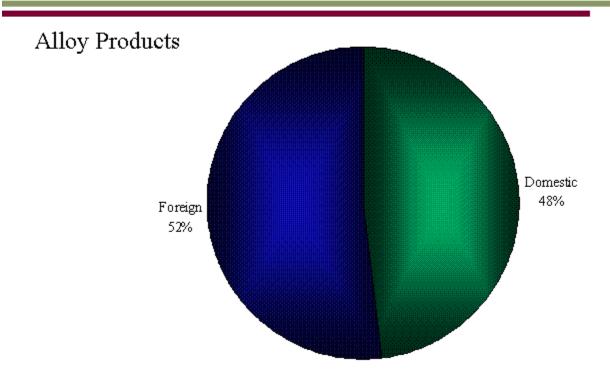
- > Strip Markets (coils)
 - Telecommunications
 - Computers
 - Automotive Electronics
 - Appliance
- > Bulk Markets (rod, bar, tube, plate)
 - Plastic injection & blow molds
 - Undersea/marine housings for telecom & instrumentation
 - Aircraft bushings & bearings
 - Oilfield well drilling, completion and production equipment
 - Heavy Equipment –Bearing and wear applications
 - Power Generation—Emerging
 - Welding Electrodes and Dies



Alloy Products Revenue by Market 2005

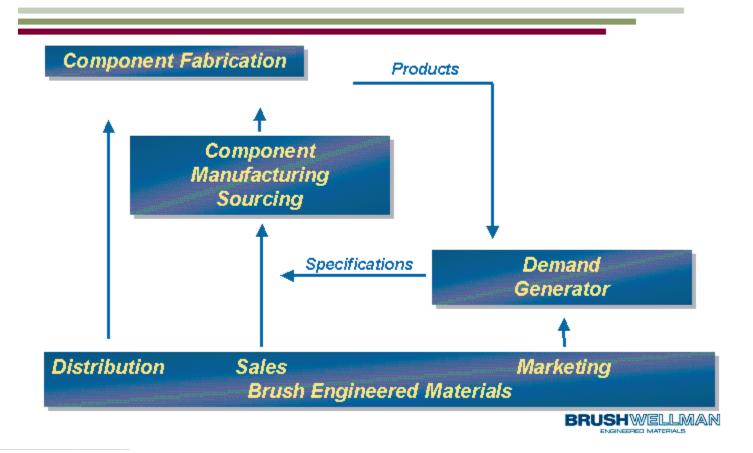


International/Domestic Revenue 2005





Sales Based on End User Specifications

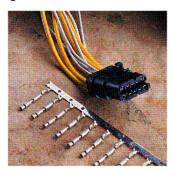


Strip Alloy Applications

(strength, conductivity, spring characteristics)

- Current Carrying Springs and Relays
- Integrated Circuit Sockets
- Electrical and Electronic Connectors
- Air Bag Sensors
- Pressure Responsive Devices
- Fire Extinguisher Sprinkler Heads









BRUSHWELLMAN

Alloy Products Strip Products - Strategy

Maintain focus on major end-use markets

 Computer Telecommunications (mobile & Infrastructure) Automotive Appliance Military Medical

Defend leadership in traditional alloy strip, rod & wire

- Reduce total cost of manufacture to allow penetration of mid-range alloy applications
- Enhance product properties to provide additional value to customers

Introduce new alloys to meet needs of targeted market opportunities

Brush 60®, ToughMet® Strip, Alloy 390™, BrushForm™ 47

Geographic Growth

Expand commercial operations in Asia Pacific



New Strip Products - 2005

- Launched Q1 2005
 - BrushFormTM 47 Electronics... numerous personal portable devices (i.e. cell phones), burn-in-test sockets, servers (further expanding property set, i.e. formability, conductivity and strength)



Strip Capacity Expansion Elmore and Reading Facilities



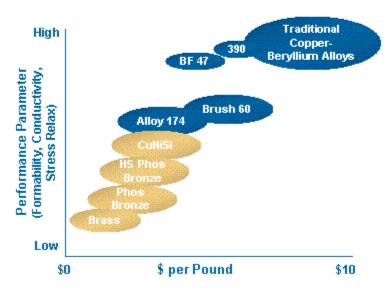
- \$140 Million (1996 1998)
- Added casting, hot rolling, annealing and cold rolling capacity at Elmore
- Added light gauge strip and mill hardening capacity at Reading
- 50% to 100% capacity increase depending upon product



Strong Value Proposition in Served Markets

Copper-beryllium alloys, while premium priced, provide best-in-class performance

Competitive Alloy Comparison



Brush Value Proposition

- Unique, high-performance materials
- · Technical design capabilities
- Outstanding service center network
- Global marketing, sales and distribution

Note: Blue denotes Brush Engineered Materials' alloys; beige represents competitive materials.



Automotive Electronics

Definition: power and signal distribution in passenger cars and light trucks - connectors, switches and relays.



Automotive Applications

Potential New Applications:

- Infotronics/telematics in car multimedia systems and mobile communication systems, navigational, global positioning, internet based services
- Powertrain electronics in vehicle networks, drive-by-wire systems, continuously variable transmission, intelligent braking
- Safety systems intelligent air bag systems, driver alertness monitoring, adaptive cruise control, frontal collision warning, intelligent highway vehicle systems, automatic emergency notification



Computer

Definition: Brush Wellman's high performance alloys are sold to the computer industry in strip and wire forms for connectors, contacts, and shielding. End use applications include servers, workstations, notebook and desktop computers, personal digital assistants (PDAs), data storage devices, and semiconductor testing sockets.



Computer Applications

Examples of specific end-use product applications

- Fingerstock shielding used in servers and data storage
- Power connectors used in server power supplies manufactured by Sun, HP, Compaq, and Intel
- Microprocessor socket connectors
- PDA ID connector and battery contacts
- · High speed backplane connector system for data storage and server systems

Examples of future target product applications

- Microprocessor Burn-in and Test Sockets (BiTS)
- Power connectors for multi-chip module interfaces as well as backpanel power applications in high end servers
- High pin count and high density flex circuit interface connectors for high resolution flat panel displays

 BRUSHWELLMAN

Telecommunications

Definition: Brush Wellman's high performance alloys are sold to the telecommunications industry in strip and wire forms for connectors, contacts, shielding, switches and relays. End use applications include wireless base stations, cell phones, pagers, telecom switching equipment, transmission equipment, communication networks, and personal communication devices.



Telecommunication Applications

Examples of specific end-use product applications

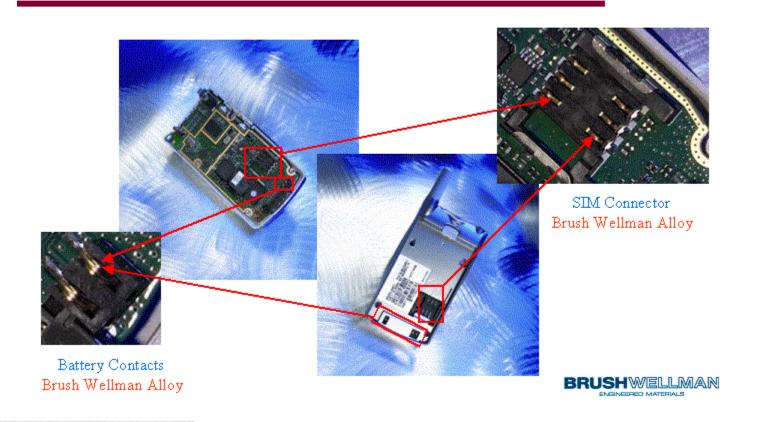
- Handheld and portable device battery contacts, antenna clips, I.O. connectors, board to board connectors, SIM card connectors & display connectors
- · Category 6 modular jacks for connecting data networks
- Shielding gaskets and clips for EMI protection
- · Coaxial connectors for base stations and other telecommunications infrastructure applications
- VHDM connector system used in backpanel connector systems for Gigabit Ethernet switches and routers
- · Circular connectors for military, industrial, and commercial applications

Examples of future target product applications

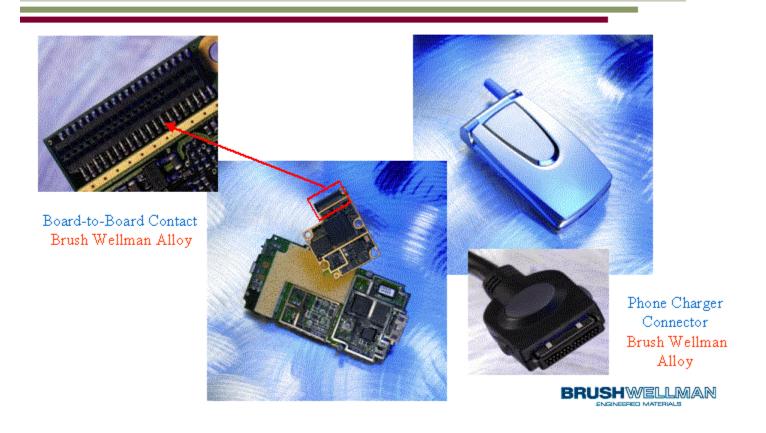
- · Category 6A modular jacks for data networks
- Low profile board to board connectors for wireless handsets and high speed mezzanine connectors for network switches and routers



Cell Phone Connector Applications Rear of Circuit Board

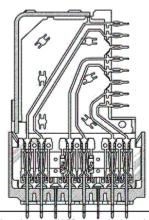


Cell Phone Connector Applications Front of Circuit Board



Level 3 (PCB to PCB) Enabling Technologies





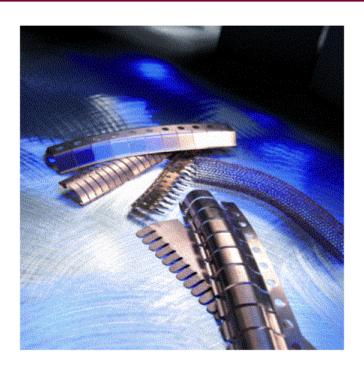
- + Move from single to differential pairs
- + Increased signal speeds
- + High pin count
- + Ground strips can be added between rows
- Weight
- Trace layout problems due to high density





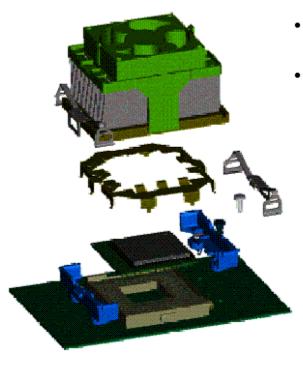


EMI Shielding





EMI Shielding

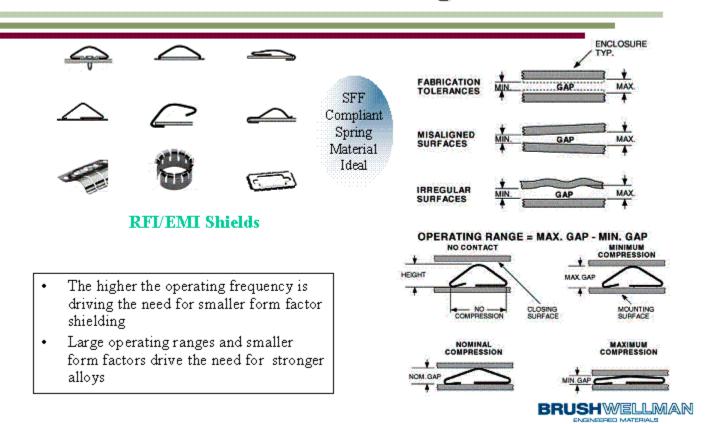


- P4 processor uses an EMI shield for hi-end applications
- Shield is located between the processor and the heat sink exposing it to elevated temperatures

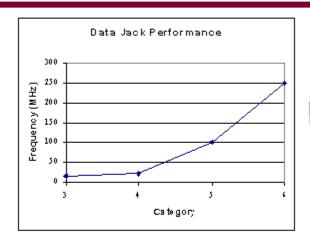
Hi Temperature Exposure



EMI Shielding



Modular Jacks Level 6 (system to System) Enabling Technologies



Hi Reliability Jacks Use HPAs



Cat 6 data jacks

- Normal force
- Impedance
- IDC height
- Return loss
- Cross talk
- Round vs. rectangular
- Attenuation
- Reliability

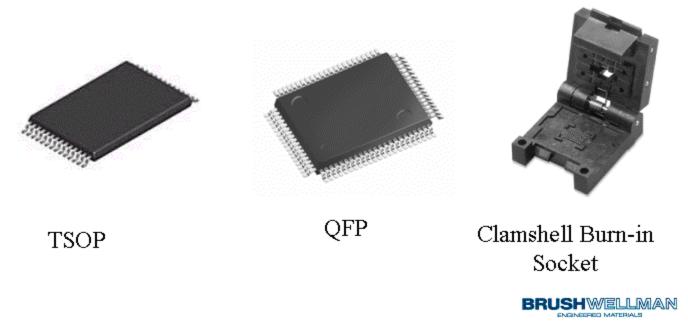


96 Port Cat 5 patch panel (SRP \$396)



Level 2 Interconnects

Clamshell Sockets - typically used for TSOP (thin small outline package) and QFP (quad flat package).



Level 2 Interconnects

LIF Sockets - typically used for DIP (dual in-line package) and SOJ (small outline J-Lead).



DIP



SOJ



SOJ Burn-in Socket



Level 2 Interconnects

Contact Design Types:

Pogo Pin

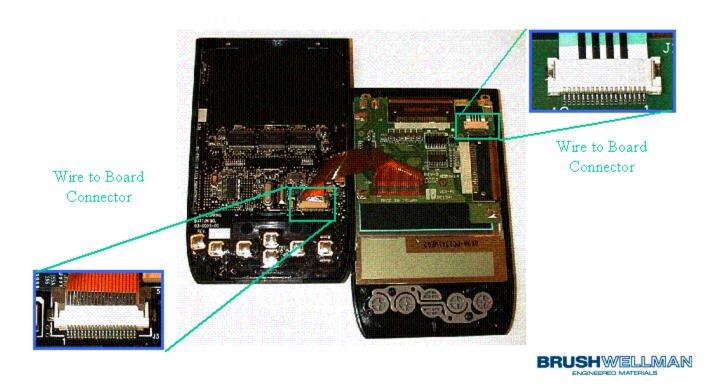
 Made using high performance alloys materials for the spring and contact body

Cantilever Beams

 Made using high performance alloys where careful attention is given to stamping to get good edge quality



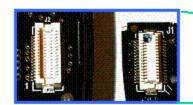
Connectors in PDAs

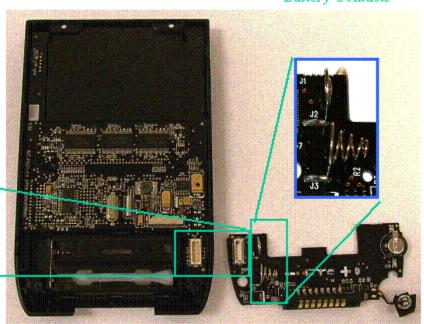


Main PCB from Back

Battery Contacts



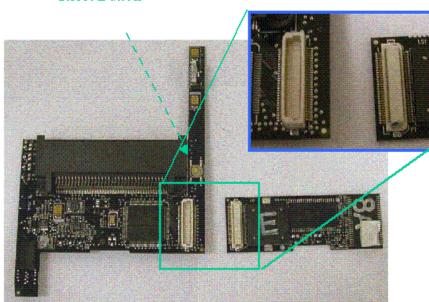






Main PCB from Front

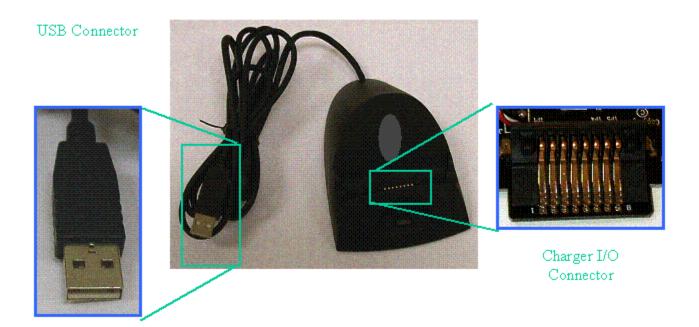
Reset Button



Board to Board Connector



Desktop Charger





Bulk Alloy Applications

(strength, corrosion resistance, non-galling, conductivity)

- Aircraft Bushings
- Heavy Equipment Bearing and Wear Applications
- Oilfield well drilling, completion and production equipment
- Plastic Injection & Blow Molds
- Power Generation
- Tooling for Metalworking
- Undersea/Marine Housings for Telecom & Instrumentation
- Welding Electrodes & Dies











BRUSHWELLMAN

Alloy Products Bulk Products - Strategy

Maintain focus on traditional end-use markets

Aerospace Oil & Gas Plastics
 Power Generation Resistance Welding Undersea

- Introduce new alloys or product forms to meet needs of targeted market opportunities.
 - New Plastic Mold Alloy Systems
 - ToughMet® and improved ToughMet® products (TS Tempers, ring-rolled)
 - Alloy 310 RWMA class 3
 - Niche market bronzes with unfilled demand
- Focus on new non-traditional growth markets
 - Bearings, Condensers, Heat Exchangers, Heavy Equipment & Mining, Marine,
 Offshore & Downhole power cables, Oil & Gas well completions, and Pumps
- · Geographic Growth
 - Expand commercial operations in Asia Pacific, improve customer awareness and distribution
 BRUSHWELLMAN

New Bulk Products - 2005

Developed in 2004 Launched Q1 2005

 ToughMet® AT110 Ring Rolled Forging - Heavy Equipment Applications...larger bushing applications in heavy mining equipment & well-head control equipment

Developed & Launched Q1 2005

 Alloy 25 CuBe rod, tube and forged rings with improved properties for subsea oil & gas well-head equipment

Developed & Launched Q2 2005

 ToughMet 3 TS 160U Rod for bearings and bushings on modern jet aircraft and for oil & gas subsea drilling, completion and production equipment

Developed & Launched Q4 2005 Launch

TS 160U Tube for modern aircraft bushings and bearings

Developed & Targeted for Q1 2006

ToughMet 3 AT flat plates/sheets for thrust washer/bearing applications



MoldMAX® Alloys for the Plastics Industry



Brush Wellman engineers use infrared imaging at the customers facility to pinpoint where MoldMAX® will provide the maximum benefit.

Value Proposition

- Provides molders with 20-40% increase in productivity
- Capital avoidance due to increased productivity
- Enables improved quality of molded parts
- ROI < 3 months

Technical advantages

- Hardness of steel with the thermal conductivity of copper
- · Fast machining rates
- High polishability



Lorain Casting Facility Spinodal and EquacastTM Technology-Winning!

High performance copper based engineered materials:

- Strength and hardness found in CuBe products
- · Thermal conductivity

The value proposition differentiates:

- · Corrosion resistance
- Superb tribological properties (low friction coefficient, excellent wear resistance) adding value in reliability, uptime, and maintenance savings
- Machinability and design simplicity adding cost benefits to offset increased material costs
- Casting capability including size, shapes, tubes and quality
- No EH&S issues

Developing applications in markets where we are strong:

Mold Tooling, Aircraft Parts, Drilling Equipment

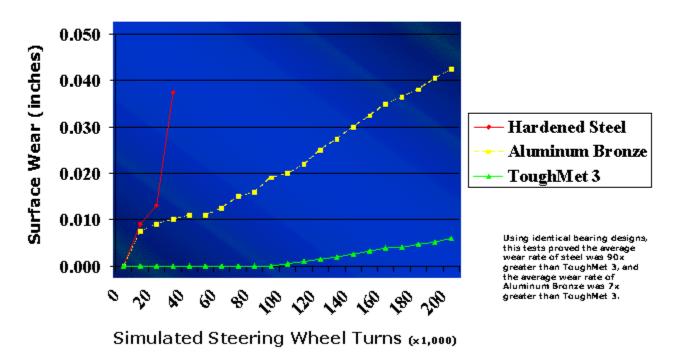
Developing markets/applications where technology is strong:

Oil Well Completion Equipment, Mining, Heavy Equipment, Hydraulic Systems, Marine Hardware, Engine Bearings, Semiconductor Fabrication

> Lorain Technology: Expanding Brush Wellman's market and application reach



ToughMet® Outlasts Conventional Bearing Materials in 300-ton Mining Truck Steering Test

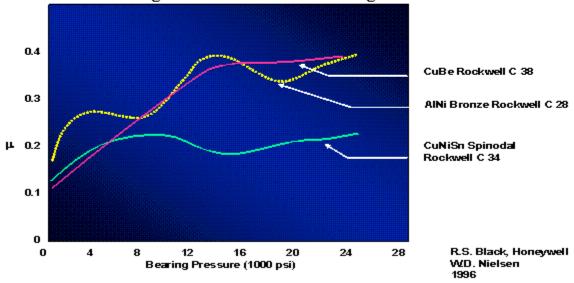




ToughMet® Industrial Components Results:

ToughMet® Alloy Bushings Provide Superior PowerEfficiency Performance

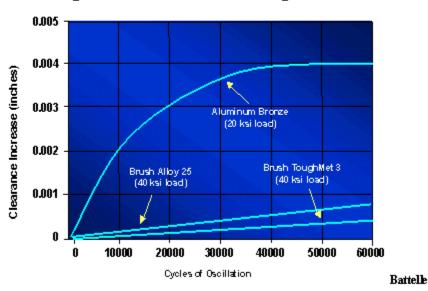
in a Comparison of Dynamic Coefficient of Friction μ vs Bearing Pressure for Three Bearing Materials





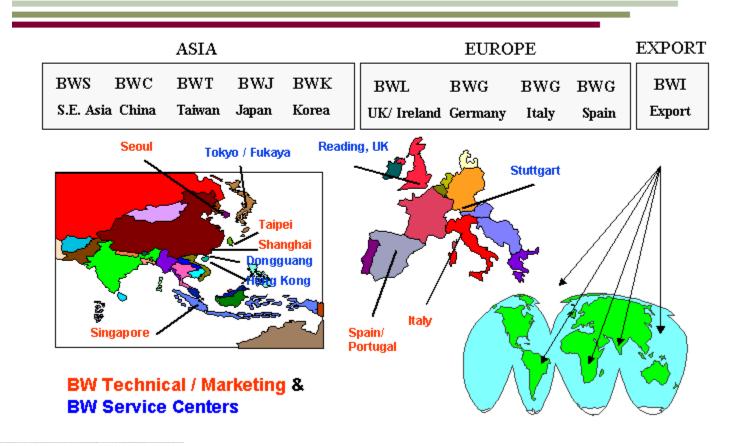
Significantly Higher Durability has been Confirmed for ToughMet®

Comparative Sleeve Bearing Wear Tests.





Brush International Inc.



Brush Wellman Beryllium Products

Products

Beryllium Metal - One of the lightest metals known

 Family of vacuum hot and hot/cold isostatically pressed powder-derived metals

AlBeMet™

- Family of lightweight alloy composites

 Extruded, rolled sheet and hot isostatically pressed powder-derived metals



Brush Wellman Beryllium Products

Products - Cont.

E-Materials

- Family of low expansion, lightweight electronic packaging materials
- Composites of beryllium metal and beryllium oxide

Beryllium Oxide/

Chemicals

- Ceramic-grade beryllium oxide powder
- Specialty beryllium-containing chemicals

Brush Wellman Beryllium Products

Facilities

Elmore, Ohio Fremont, California



Key Product Attributes

- ➤ Be/AlBeMetTM
 - –Light Weight (Density)
 - -High Stiffness (Elastic Modulus)
 - -High Thermal Conductance/Capacity
 - -Low Thermal Expansion
- > Be
 - -Transparent to X-Rays
 - -Neutron Reflector

BRUSHWELLMAN

Brush Wellman Beryllium Products

Primary Competition... Alternative Materials

Organic Composites (e.g. Carbon epoxy)

Silicon carbide

Metal Matrix Composites (e.g. Al - silicon carbide)

Pyrolytic graphite

Aluminum (high strength grades)



Major Defense/Aerospace Applications for Brush Wellman Beryllium Products

Optics

Optical substrate and support structure for visual and infrared target acquisition systems (fighter aircraft, helicopters, unmanned aerial vehicles, tanks), surveillance systems and astronomical telescopes.

<u>Satellites</u>

Structures and sensors for defense and commercial telecommunications satellites.

Electronics

Electronic packaging for defense avionics, radar and electronic countermeasures systems for helicopters and fighter aircraft. Applications include circuit boards, covers and packages.

BRUSHWELLMAN

Major Commercial Applications for Brush Wellman Beryllium Products

X-ray Windows

Radiographic tube components for * medical diagnostic (x-ray, mammography, CAT-scan), * industrial and * scientific equipment.

Optical Scanners

Mirrors for laser scanners used in reprographic and other high-performance laser applications.

Motion control

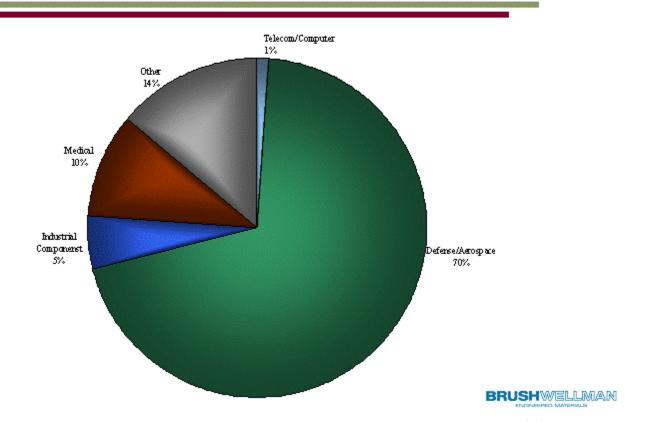
Structural components for high-precision semiconductor processing and industrial robotic equipment

Acoustics

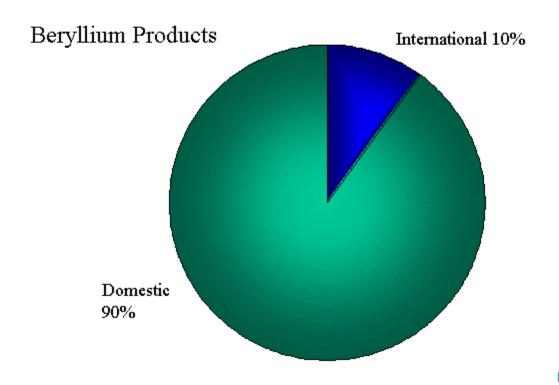
High performance speaker components



Revenue by Market 2005



International/Domestic Revenue 2005





Major Applications, New Products and Platforms

Beryllium Products

<u>Product</u> <u>Market</u>

New AlBeMet Products Defense

Fabricated Products Defense

Acoustics Speakers



TMI - From a Customer Perspective

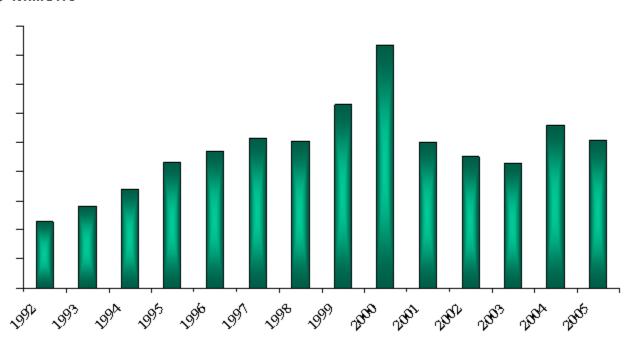


- WHAT TMI provides our customers the ability to demand varied performance (electrical, thermal, or mechanical) from a metal surface area or section.
- WHO We provide this "service" to the telecommunication, automotive, computer, semiconductor and other industries.
- HOW By offering various forms of strip metal products: clad metals, plated metals, electron beam welded, solder plated, reflowed or printed-on, milled and/or skived metal strip or various combinations of the above.

Sales Growth



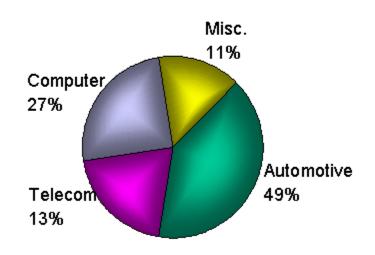
\$ Millions



Our Major Markets



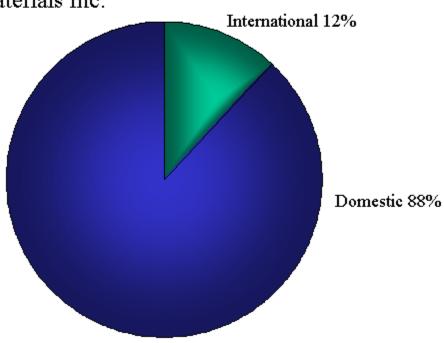
- > Automotive
- > Telecommunications
- > Computer
- > Jewelry
- > Semiconductor
- > Appliances
- Medical
- > Aircraft



International/Domestic Revenue 2005

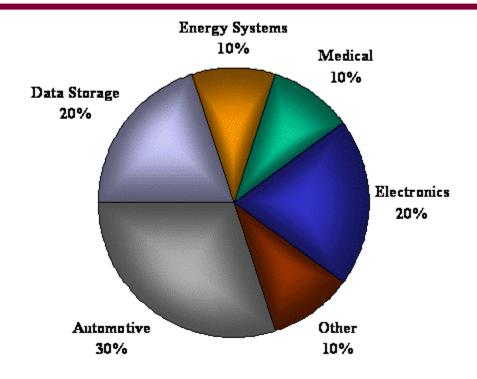


Technical Materials Inc.



Major Applications, New Products and Platforms





Our Major Applications





Leadframe



Air Bag Sensor

- Capacitors
- > Coins and Tokens
- Connectors
- Contact Probes
- Fuses
- Leadframes
- Micro Motor
- Microwave
- Potentiometers
- Relays
- Sensors
- Solder Clips
- » Switches



Connectors



Electroplating



- > Precious and non-precious metals
- > Overall and selective stripe capabilities
- > Combination with current TMI technologies

Stripe Plating Application



Cellular Phone Battery Contact



- > Base Material: BeCu
- Overall Ni plating
- Selective Au (one side)
- Selective SnPb (both sides)

Competitive Advantage



- > Quality
 - ISO 9001:2000 / ISO 14001
 - State-of-the-art equipment
 - Vision Systems / PLC Systems for consistent quality
- Design Support
 - Technical knowledge
 - Engineering expertise
- > Overall Capabilities
 - Slitting and leveling
 - Inlay / Electron-Beam Welding / Solder / Milling / Skiving / Plating
 - Any combination of the above processes
 - Large coil handling capability

Strategic Concept



- > Total capability under one roof
- Make it easy for our customers to get what they need to satisfy their customers' requirements
- Make our customers competitive with reliable products
- Solve problems for our customers with engineered strip metal solutions
- Explore and develop new markets and geographic regions for manufacturing (China).

Growth in Electroplating



- > Precious and non-precious metals
- Overall and selective stripe plating capabilities
- Combination with other TMI technologies
- Proprietary closed contact plating technology
- > Building additional lines to further increase capacity

New Products & Platforms by Market 👯



Technical Materials Inc.

- Surgical devices
- Digital cameras & hi-res copier leadframes
- Micromotor components for consumer electronics
- Resistors and fuses for automotive applications
- Disk drive suspension materials
- · Coatings for automotive

Summary



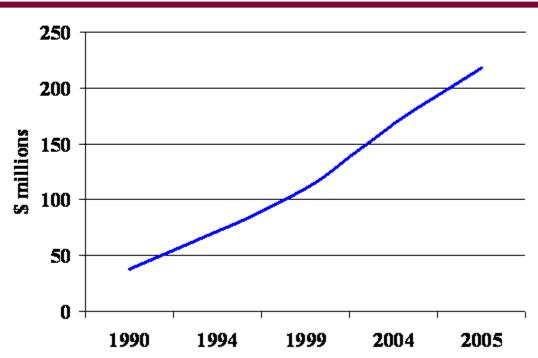
- From 1992-2000 TMI sales more than quadrupled.
- 2001 and 2003 proved to be extremely difficult years due to major served markets being severely depressed; however, TMI remained profitable all three years.
- > 2004 sales improved only to be followed by a drop-off in 2005. In both years product mix impacted overall profitability.
- > We have added major new technical capabilities using state-of-the-art equipment in precious metal electroplating to better serve worldwide customer demand (both technical & capacity).
- > We are ISO 9001:2000 and ISO 14001 registered.
- > We will add additional Plating technology and capacity to service market demand as required.
- > We are making further inroads into new markets (disc drives) and other markets (consumer, medical, appliance, energy) in order to broaden our served market base and will have a much different served market profile by the year 2007.

What We Do

Williams Advanced Materials develops, manufactures and markets materials and services of unique value for the Data Storage, Wireless/Photonics, Semiconductor, Optics, Hybrid Microelectronics and Performance Coating industries. We also support emerging technologies such as TFT/LCD, MRAM and Nanotechnology. Williams products are primarily based on specialty metal products used in high reliability and performance applications.

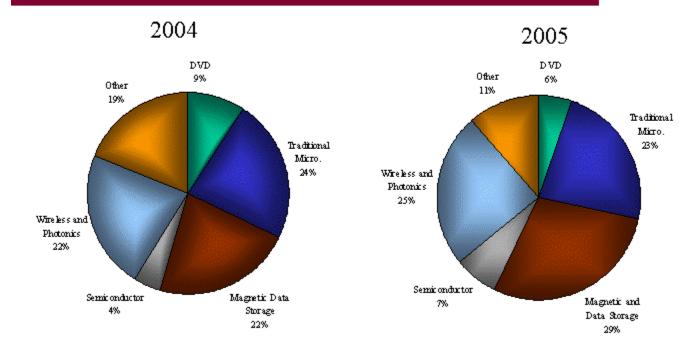


Sales History



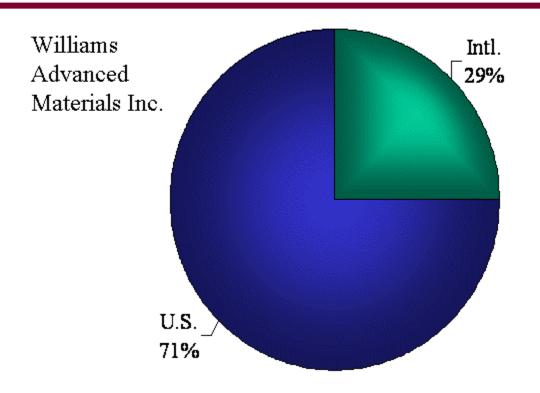


Revenue by Market



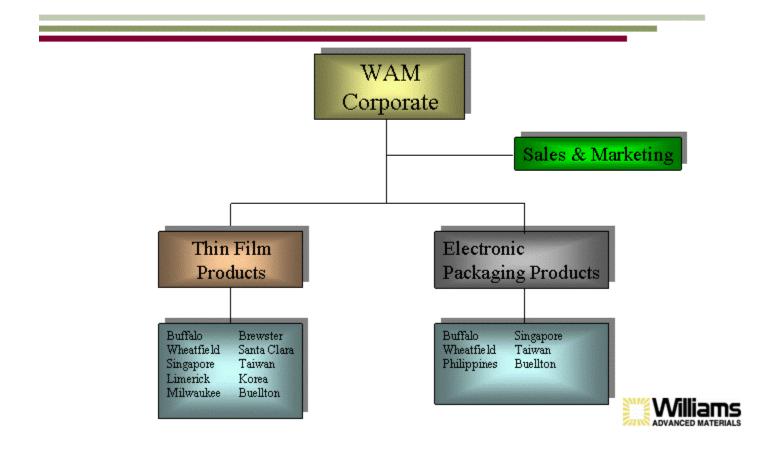


International/Domestic Revenue 2005





WAM Business Structure



WAM Headquarters



Buffalo, NY USA - Manufacturing Facility

 100,000 Sq. Ft. overall, 6,500 Sq. Ft. of cleanroom, state-of-the-art machining/milling/rolling/stamping/ cladding centers, target bonding, hydrostatic wire extrusion, high purity refining/recycling, metals casting, automated plating, full analytical capabilities, product Research & Development.



Specialty Alloys Operations



- Wheatfield, NY USA- Williams Specialty Alloys
 - 30,000 Sq. Ft. with volume vacuum casting, rolling, annealing, powder atomizing and machining. 10 acres for expansion.



Williams Thin Film Products Operations



- Brewster, NY USA
 - 35,000 Sq. Ft. with vacuum melting, hot-pressing, milling, hot & cold rolling automated machining and target bonding capabilities.
 - Acreage to more than double our facility as needed.



Far East Operations



Singapore - WAM Far East Pte. Ltd.

 Target bonding, bonding wire production, Combo-Lids[®]. assembly



Subic Bay, Philippines

 Combo-Lids®, low-cost lids and preform - assembly, inspection and packaging.



Taoyuan County, Taiwan - WAM Taiwan

· Target bonding, evaporation materials & bonding wire.



European Operation



- Limerick, Ireland OMC Scientific, Ltd.
 - Subsidiary of WAM
 - Provides precision parts cleaning and reconditioning services for film Physical Vapor Deposition (PVD) customers in Europe.
 - Unique technology applied to opportunities in North America and Asia.
 - Efforts focused in the semiconductor, magnetic media and other technology based markets.

Thin Film Technology (TFT)



- Buellton, CA
 - Subsidiary of WAM
 - Thin film coating and substrate patterning.
 - Visi-Lid™ supply chain management.
 - Capabilities: Electron Beam Evaporation, DC/RF Magnetron Sputtering, Photolithography (Substrate Patterning), Dicing, Tooling design, In House Machine shop

CERAC



- Milwaukee, WI
 - Subsidiary of WAM
 - Physical Vapor Deposition (PVD) materials for opthalmic, optic and performance applications.
 - Specialty Inorganic Materials
 - Unique technologies in chemical and powder processing



Target Bonding Centers

- Localized debonding/ bonding of PVD targets to backing plates:
 - Buffalo, NY
 - Brewster, NY
 - Santa Clara, CA
 - Limerick, Ireland
 - Singapore
 - Taiwan









Global Service and Support

• Regional Offices (Sales and Applications Engineering support)

Buffalo, NY Tokyo, Japan

Brewster, NY Taoyuan, Taiwan

Boston, MA Singapore

Tucson, AZ Manila, Philippines Santa Clara, CA London, England

Buellton, CA Seoul, Korea

Milwaukee, WI Limerick, Ireland

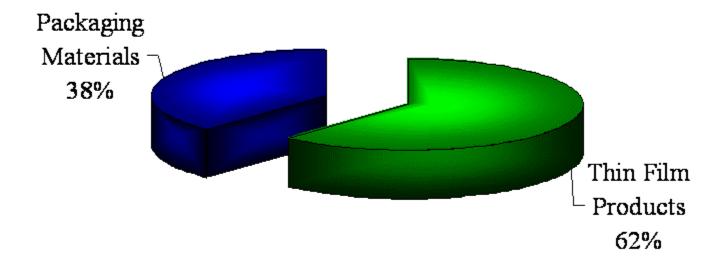
Worldwide Representatives

Florida Italy France
India China Germany

Sweden Israel



Product Mix





Thin Film Products

PVD Materials Buffalo - Precious Metal (PM) Targets Brewster Non-PM Targets Milwaukee · Vacuum Cast Wheatfield · Hot Press Singapore HIP Materials EVAPro[™] Evaporation Materials WAM Taiwan - Localized Target Bonding **Chamber Services** Santa Clara - Shield Cleaning and conditioning Ireland - PM Refining and Upgrading - Logistics Support

End Product Examples Utilizing Thin Film Deposition Materials



Packaging Materials

- FLA/Combo-Lid®
- Seam Seal/MicrolidTM
- Preforms
- · Clad Materials
- · Braze Materials
- Ni Alloys
- Dental
- Coating, patterning and Visi-Lid™ (TFT)
- Packages (Zentrix)





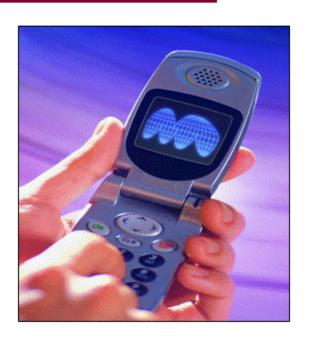
New Product and Technology Development

- Visi-LidTM A transparent lid for Photonics applications
- AMAT Target designs and enhancements for semiconductor wafer fabrication
- Silver Alloys for HD-DVD and Blue Ray Disc manufacturing
- UBM Grade™ materials for Flip Chip applications
- Expanded refining/chamber services supporting the thin film materials business
- TFT-LCD materials/services
- Magnetic Media materials
- · Nanotechnology Materials



Key Markets – Wireless and Photonics

 Thin Film and Packaging materials for varied wireless and photonic applications including RF Power Amplifiers, HBT's, SAW Devices, Light Emitting Diodes (LEDs), Laser Recorders and Micro Electro Mechanical Systems (MEMS)





Key Markets – Semiconductor Wafer Fabrication

- Thin film materials and chamber services for silicon wafer and UBM (Under Bump Metallization) technologies.
- Numerous commercial and military microelectronic applications.

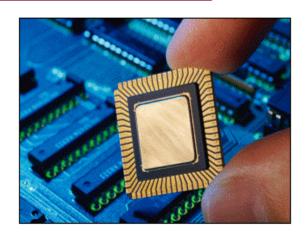




Williams

Key Markets – Semiconductor Packaging

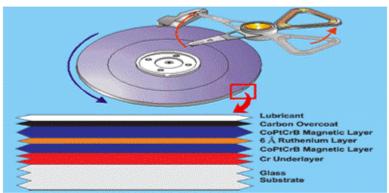
- High reliability semiconductor packaging materials.
- Applications focused in space, military and satellite market segments.





Key Markets – Magnetic Head and Media

- Thin film materials for both the read/write head and disc platter.
- Chamber Services complement materials offering.
- Applications growing into many commercial and mobile electronic products.



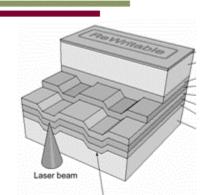
LMR (Longitudinal Magnetic Recording) Media



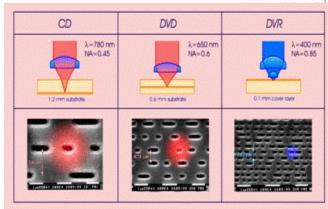


Optical Media

 DVD - Sil-XTM and Sil-XLTM patent pending alloys

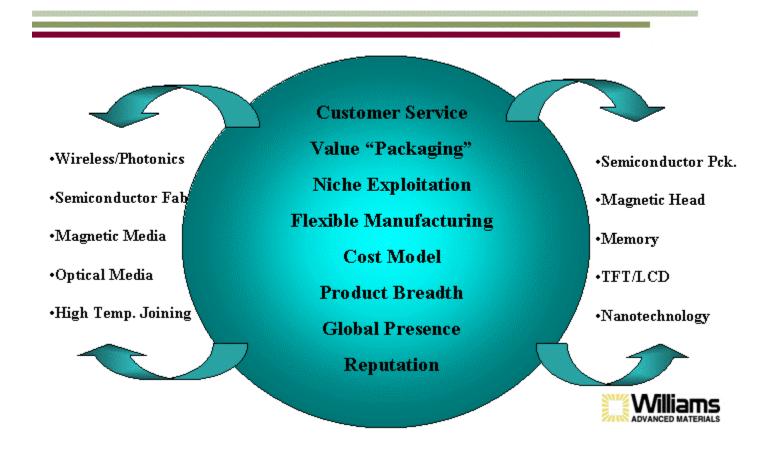


 HD-DVD & BluRay -Al and Ag Alloys





Distinctive Competencies



New Platforms by Market

New Thin Film Materials and Designs for:

- Magnetic Media
- · Semiconductor Wafer Fabrication
- Under Bump Metallization (UBM) for Flip Chip
- · Wireless and Photonics



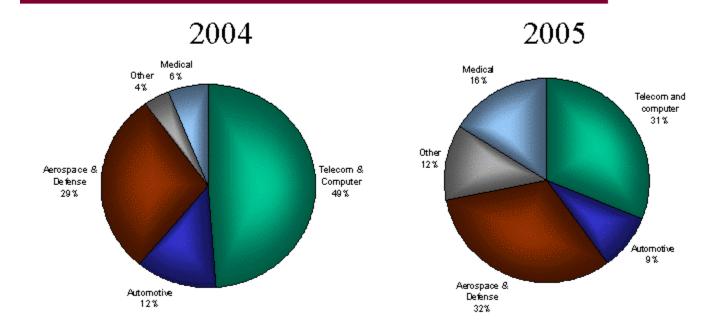
Our focus is on materials, circuitry, subassemblies and packaging for the wireless and fiber-optic telecom market, military, medical and automotive applications

- Signal amplifiers transmit signals through air (wireless) or optical fiber media by boosting signal strength while maintaining integrity. Thermal management and reliability properties are of paramount importance.
- Signal amplifiers are critical active components located in base stations for wireless (cellular) and in regenerator stations along fiber-optic (Internet) links.

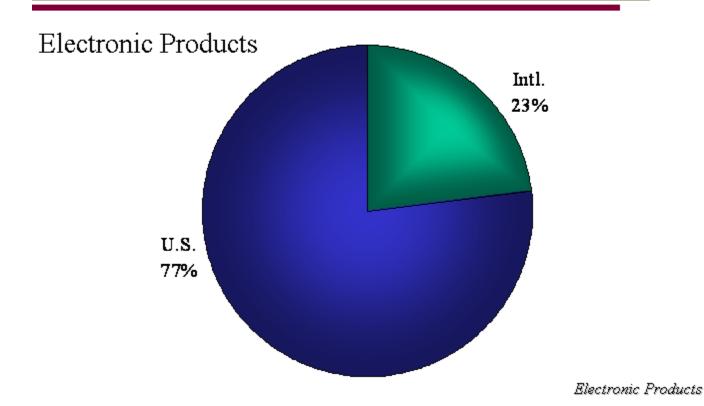
Our Overall Strategy

- Vertically integrate materials to subsystem assembly, providing customized solutions
- > Meet the Customer's needs
 - Materials or subassemblies
- Fast Flexible Manufacturing Systems
 - Responsive to market needs

Revenue by Market



International/Domestic Revenue 2005



Business Groups

- » Packaging
 - Electronic Packaging Products
- > Circuitry
 - Circuits Processing Technology
- > Materials
 - Brush Ceramic Products

Electronic Packaging Products

- Located in Newburyport, Massachusetts
- > Products
 - RF Power Packages for base stations in cellular phone
 & wireless data networks, for cellular handsets, for
 military radar applications and for digital TV
 - Automotive Components for ignition systems in cars and trucks
 - Power Circuit Assemblies for DC motor controls

Circuits Processing Technology (CPT)

- Located in Oceanside, California
- > Products
 - High Frequency Military and Aerospace Circuitry used in military radar and missile guidance
 - High Frequency Wireless circuitry for satellite communications, flight hardware and other telecom applications
 - Fiber Optic Package components for amplifiers in fiber optic networks
 - Medical equipment and implant circuitry

Brush Ceramic Products

- Located in Tucson, Arizona
- > Products
 - Ceramic substrates used in commercial and military packaging applications
 - Ceramic laser bores for gas lasers used in medical and industrial applications
 - Machined ceramic components used in military, oil and gas, semiconductor and microwave applications

New Products & Platforms by Market

Electronic Products

- BW 1000 Substrate sales started this year
- · E-materials Packaging applications
- Luxtel reflectors development program in final stages.
- · High Conductivity ceramic packages began shipping
- Thirteen new package outlines

Beryllium Health and Safety

Brush has continued to make progress on issues related to beryllium health and safety

- Improved worker protection programs in place
- · Rates of sensitization down among new workers
- Strong focus on regulations related to beryllium exposure

Litigation

	Total Cases Pending	Total Plaintiffs (including spouses)
12/31/02	33	70
12/31/03	15	33
12/31/04	12	56
12/31/05	13	54

Litigation

- In Q-4 2005, two cases were voluntarily dismissed.
 No new cases were filed.
 - Our caseload and number of plaintiffs will vary from quarter to quarter depending on new cases, additional plaintiffs, settlements, dismissals, amendments to complaints, etc.
- The Company believes it has substantial defenses in pending cases