

Kracoe  
Szykula



Townsend<sup>INC.</sup>  
Advertising • Public Relations

Portfolio

# Kracoe Szykula & Townsend, Inc. At-A-Glance

## *Capitalized Billings \$3,500,000*

Media 40%  
Collateral 30%  
Public Relations 30%

## *Professional Memberships*

Business Marketing Association  
Aircraft Club of Detroit  
American Advertising Federation  
BPA International

## *Bank*

Citizens Bank, Bloomfield Hills, Michigan

## *Accountant*

UHY Advisors, Southfield, Michigan  
Steve Cheaney

## *Legal Counsel*

Sugameli & Sugameli PLC, Troy, Michigan  
Mike Sugameli

## *Online*

[www.ksthip.com](http://www.ksthip.com)

## Client List

Aldoa Company	<i>Metal plating chemicals</i>
Aget Manufacturing	<i>Dust/mist air cleaning equipment</i>
ArvinMeritor (project)	<i>Electronic, chassis &amp; drivetrain</i>
Avery Dennison Automotive (project)	<i>Automotive interior &amp; exterior finishes</i>
CIGNYS	<i>Multifaceted manufacturer</i>
Creform	<i>Modular material handling systems</i>
Cross Chemical Company	<i>Die casting lubricants &amp; chemicals</i>
Dallas Industries	<i>Press feeding equipment</i>
Dörken Corporation USA	<i>Fastener coatings</i>
Fairlane Products	<i>Workholding &amp; positioning components</i>
Fixtureworks	<i>Modular fixturing components</i>
GROB	<i>Machining Centers</i>
Hougen Manufacturing	<i>Holemaking tools &amp; annular cutters</i>
ITW Hosco	<i>Paint delivery systems</i>
ITW Workholding	<i>Chucks, collets, workholding devices</i>
Mayfran International	<i>Chip/coolant filtration &amp; conveyors</i>
Northrop Grumman (project)	<i>Diode lasers</i>
NTC America Laser Group	<i>Laser cutting systems</i>
Polyflex	<i>Custom totes and dunnage</i>
TD Center	<i>Metal coatings</i>
Thermoflex	<i>Custom Totes</i>
3-Dimensional Services	<i>Rapid prototyping</i>
Urgent Plastic Services	<i>Plastic rapid prototyping</i>
Valenite	<i>Cutting tools</i>
VGAGE	<i>Gaging products &amp; systems</i>

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Advertising

Kracoe  
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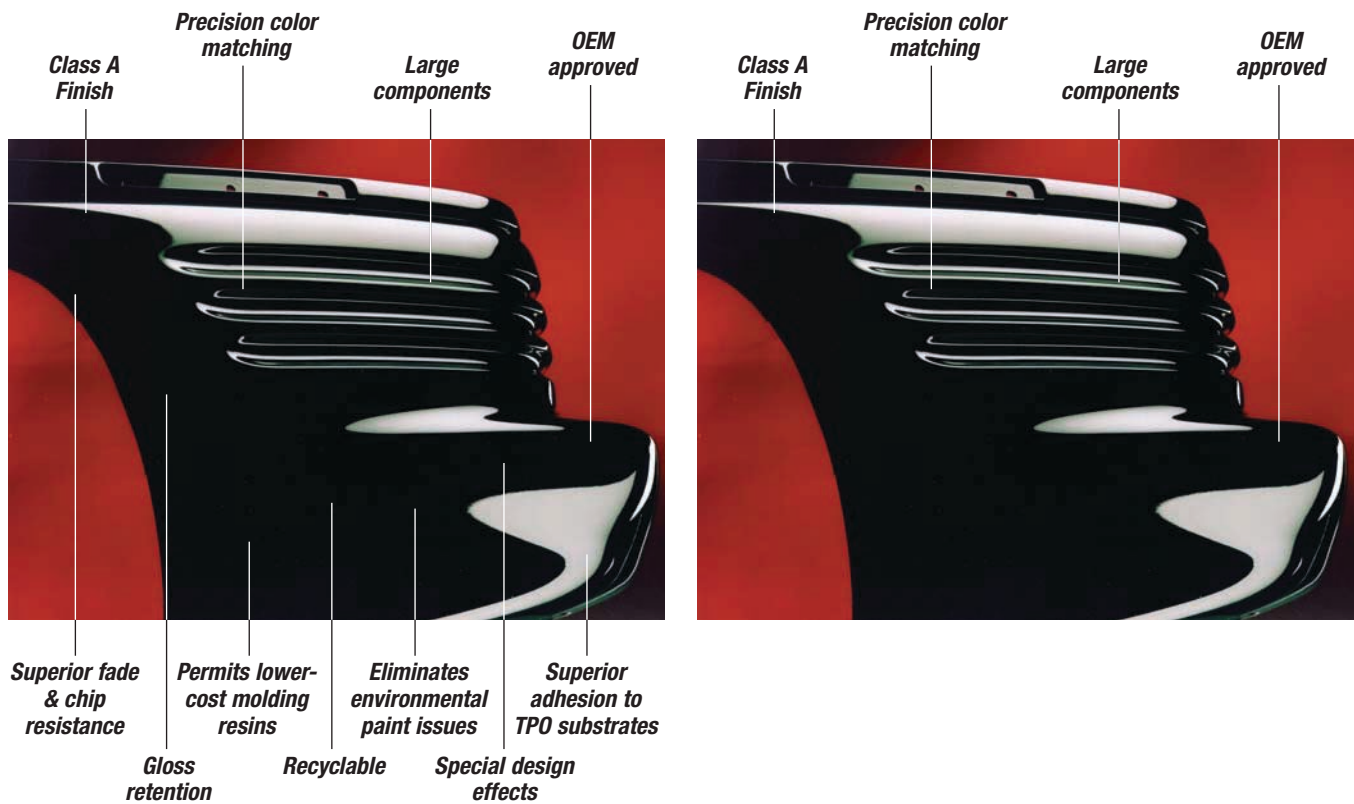
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Advertising • Public Relations

Full Page Ads

AVERY DENNISON  
**AVLOY®**  
 FORMABLE  
 PAINT FILM

**VS**

**WET  
 PAINT**



Avery Dennison Avloy® formable paint film equals or exceeds the look and performance of paint. It is engineered to be used in the injection molding process for automotive exterior plastic parts applications. Available in roll or sheet form, Avloy is an ideal product for molders who wish to produce painted or decorated parts with Class A finish — without spray paint operations and their inherent environmental issues such as sludge removal, VOC issues and masking. Avery Dennison Avloy formable paint films can be used for a wide variety of exterior applications such as: body side moldings • bumper caps • side pillars • chin spoilers • mirror housings • tail lamp housings • door handles. Choose the process that is becoming a preferred finishing process for automotive plastic components worldwide. Choose Avery Dennison Avloy.

**Industrial & Automotive Products Division**

1895 Crooks Road  
 P.O. Box 1019  
 Troy, MI 48099-1019  
 Phone: 248-458-0900  
 FAX: 248-458-0901

Trading Estate, Motherwell Way  
 Gray, Essex RM20 3XD  
 United Kingdom  
 Phone: 00 44 (0) 1708 865500  
 FAX: 00 44 (0) 1708 689771



**AVERY  
 DENNISON**



Price is only important  
until it hits the job site!



## It's performance that saves you money.

Saving a few dollars means nothing if a product doesn't meet performance expectations. Good hole quality. Ease of use. Reliability. Durability. After searching for the oldest Hougen Magnetic Drill in operation we found several of our original drills still in use. That's performance and reliability. Our objective has always been to engineer and build these attributes into every Hougen product while always looking for innovations to make better holes, faster. Innovations like:

- The quill feed HMD505 lets you cut from 1" to 3" D.O.C. while maintaining a constant low profile
- The quill feed HMD150 Rescue Drill let's you drill in spaces where hand-held drills won't fit

Although Hougen products deliver reliability and durability, all products that get heavy use will require service. So when they do, our 35 service centers around North America will have your Hougen drill back, fast. No other manufacturer can match this! So when you're buying on price, think about reliability and performance, because on the job site it better be there when you need it.



P.O. Box 2005 • Flint, MI 48501-2005  
Ph: 810-635-7111 • Fax: 800-309-3299  
Hours: M-F 7A-7P EST  
E-mail: [info@hougen.com](mailto:info@hougen.com) • Online: [www.hougen.com](http://www.hougen.com)

Want to know what cutting tool value is all about?

# TURN TO BLUE.

Valenite Blue

If you're using Valenite product, you can trust that we'll continue to maintain your high level of product, we're going to go above & beyond.

We've made significant investments and will continue to improve tooling, coolants, piping & more in the coming years.

We will continue to make a number one priority to help productivity. That's the real customer rate Valenite set.

Let us prove it to you. Call 800-544-3335 or visit us at [www.valenite.com](http://www.valenite.com).

**"There's a time when satisfaction" have to be earned.**

**Bob Drummond**  
President  
Valenite

Got a lot of different cutting applications? Need some cutting tool answers?

# TURN TO BLUE.

Valenite Blue

We've introduced over 1000 new products, 7 new grades and 18 new top-form geometries in the last 12 months.

Our ongoing research and development in tooling, turning, grinding, finish & more will increase your job throughput.

We aim to provide tooling solutions for all types of manufacturing — all to package machine that produce product. For product technology support, technical support group at 800-544-3335. Click on [www.valenite.com](http://www.valenite.com).

**"We've worked out many in our own labs. Better a customer's floor. Expect it."**

**Karl Kubit**  
Product Development  
Valenite

Tired of waiting for cutting tool application support?

# TURN TO BLUE.

Valenite Blue

Our Application Engineers and ValPro™ teams are answer men.

Helping you improve your productivity and make operation as cost efficient as possible. You'll get service right where it counts the most. At the machine.

We know cutting materials. How they cut. Why they cut. What's the best cutting tool to use.

We know machines, feeds, speeds and cutting conditions.

And we make it convenient. As convenient as you. For all your door applications support call us at 800-544-3335 or visit us on the web at [www.valenite.com](http://www.valenite.com). Click on [www.valenite.com](http://www.valenite.com).

**"When we talk about applications support we're talking about engineers at your door. With answers. That's the best of this company's support."**

**Mike P.**  
Customer  
Valenite

INTRODUCING  
**Valenite**  
The New Blue

Can't get the kind of cutting tool support that you need? Want to get it?

# TURN TO BLUE.

Valenite Blue

It's all about customer support and service. Whether it's following up on an order, finding out a delivery schedule, answering an application question or setting up a classroom-training program, you can take advantage of our comprehensive customer support program. That's Valenite.

From the front lines of customer service and technical support — the folks that answer the phones and answer your questions to those that help you set up training and seminar programs for your employees, Valenite is your number one source for customer support and customer satisfaction.

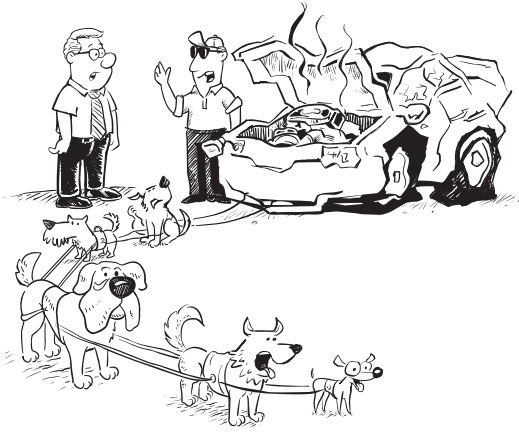
Our focus on customer service is to give real-world problems what they deserve. Real world answers.

Contact our customer service department at 800-544-3335, or visit us on the web at [www.valenite.com](http://www.valenite.com). Click on Turn to Blue.

**"The best feeling we get is when a customer of ours says, 'I got it.' That's what customer service and training is all about."**

**Diane Barlow**  
Customer Satisfaction Manager  
Valenite

INTRODUCING  
**Valenite**  
The New Blue



*"Seems to me Mr. Lerson, being cheap is one thing, but perhaps Lease Alliance would be better than dealing with the dogs from the pound."*

Lease Alliance makes the process of leasing equipment as easy as possible with simplified lease forms and quick response. We can provide turnaround in less than a day and funding within three. You won't get lost in a ream of paperwork and with leases less than \$50,000, no tax documents are required, only a simple credit check is needed.



**1-877-880-6600**

Phone: 248-203-2222



*"Hey Mr. Lerson, please call Lease Alliance for these new cost saving measures are..."*

Lease Alliance makes the process of leasing equipment as easy as possible with simplified lease forms and quick response. We can provide turnaround in less than a day and funding within three. You won't get lost in a ream of paperwork and with leases less than \$50,000, no tax documents are required, only a simple credit check is needed.

We can customize a lease to fit your business needs with step, skip and seasonal payments in lengths from 24-84 months. Lease Alliance uses the most sophisticated leasing software in the market to process your lease and more importantly to follow up with answers to any questions you might have. So whatever the equipment, you ought to consider Lease Alliance.



**1-877-880-6600**

Phone: 248-203-2222 • Fax: 248-203-2224



*"You seem to have the chipper problem solved, Mr. Lerson, but I hate to see what you come up with for the bucket truck."*

Lease Alliance makes the process of leasing equipment as easy as possible with simplified lease forms and quick response. We can provide turnaround in less than a day and funding within three. You won't get lost in a ream of paperwork and with leases less than \$50,000, no tax documents are required, only a simple credit check is needed.

We can customize a lease to fit your business needs with step, skip and seasonal payments in lengths from 24-84 months. Lease Alliance uses the most sophisticated leasing software in the market to process your lease and more importantly to follow up with answers to any questions you might have. So whatever the equipment, you ought to consider Lease Alliance.



**1-877-880-6600**

Phone: 248-203-2222 • Fax: 248-203-2224



2 DESIGN MODIFICATIONS  
 7 PARTS  
 5 MANUFACTURING PROCESSES  
 1 PROTOTYPE GRILL  
 ALL IN 13 WEEKS

Ask yourself ten questions. Do you have a design that is having difficulty answering the answers. We're experts in the challenges to solve. We design to meet, and we also do what you imagine. (Unbelievable!) Go application as well as others.

800.959.0804  
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**3Dimensional**  
 THE UNBELIEVABLE



40 PARTS  
 3 DIES  
 3 REVERSE ENGINEERING  
 5 MANUFACTURING PROCESSES  
 1 PROTOTYPE GRILL  
 ALL IN 4 WEEKS

Ask yourself ten questions. Do you have a design that is having difficulty answering the answers. We're experts in the challenges to solve. We design to meet, and we also do what you imagine. (Unbelievable!) Go application as well as others.

800.959.0804  
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**3Dimensional**  
 THE UNBELIEVABLE



3 PARTS  
 1 ASSEMBLY  
 3 TOOLS  
 1 PROTOTYPE GRILL  
 ALL IN 8 WEEKS

Ask yourself ten questions. Do you have a design that is having difficulty answering the answers. We're experts in the challenges to solve. We design to meet, and we also do what you imagine. (Unbelievable!) Go application as well as others.

800.959.0804  
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**3Dimensional**  
 THE UNBELIEVABLE



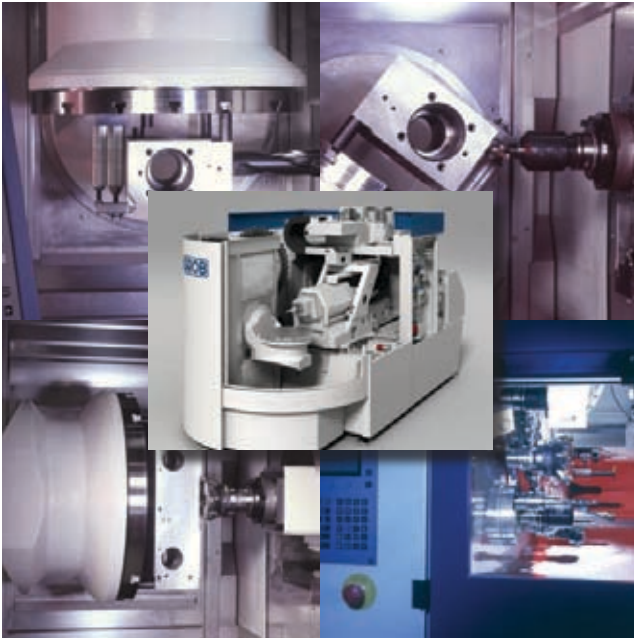
1 DESIGN  
 8 PARTS  
 6 MANUFACTURING PROCESSES  
 1 PROTOTYPE GRILL  
 ALL IN 3 WEEKS

Ask yourself ten questions. Are you behind the curve in product launch? Do you have a design that just doesn't seem to be working? If you're having difficulty answering these questions, chances are we have the answers. We're experts in bringing product ideas to reality and solving design challenges to solve. We design and build prototypes with manufacturing intent in mind, and we also do what you imagine. (Unbelievable!) Go application as well as others. Better yet, give us a call.

800.959.0804  
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**3Dimensional Services Group**  
 THE UNBELIEVABLE PROTOTYPING COMPANY

www.grobgroup.com



## NO OTHER MACHINE TOOL COMPANY HAS THE GUTS TO RUN THE

Because no other machine tool builder has the design of the new U.S. built GROB G350 five-axis machining center. The G350 spindle moves on a slide in close proximity to the bearings providing *twice* the accuracy for unsurpassed accuracy and speed. The axis movement and compact design achieves optimum pricing, immediate delivery, four available control packages, GROB's proven machine components, optional palletizing load/unload systems for 24/7 "lights out" operation and you'll have the guts to run the

Grob Systems, Inc.  
Machine Tool Division  
1070 Navajo Drive  
Bluffton, Ohio 45817  
Phone: 419.358.9015  
Email: info@grobssystem.com



www.grobgroup.com



## NO OTHER MACHINING CENTER HAS THE LIFE OF A GROB G350.

The U.S. built G350, GROB's newest horizontal machining center provides up to *10 years of performance and productivity without an overhaul*. When you compare this with other machines in its class that require overhauls after four or five years, you'll see why the G350 is an unbelievable return on your investment. Add in affordable pricing, immediate delivery, four available control packages, GROB's proven machine components, optional palletizing load/unload for 24/7 "lights out" operation and you'll see why no other machining center has the life of a GROB.

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Email: info@grobssystem.com



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INNOVATIONS, DURABILITY AND  
ULTIMATELY LOWER STAMPING COSTS.**



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Press Feeds**



**SPACESAVER Plus™  
Press Feed Line**



**Standard Feed Line**



Customers tell us Dallas press feeds are so well built they seldom need service, but when they do, it's nice to know Dallas service is available 24/7 worldwide. Ask us for details.

For example, many of Dallas lines in operation today are running heavier gauge materials than originally specified including high-strength steel, without upgrading the system. Plus, Dallas machines are fully equipped with the best quality components without the need to add a lot of options. So when you buy Dallas pressroom equipment you're meeting today's needs as well as tomorrow's.

And to keep providing the latest innovations we've recently expanded our engineering department, installed a new computer system to help control production costs/work flow and increased our in-house machining capability with the latest CNC turning and machining centers to assure optimum quality of our finished products. When you think about what Dallas has to offer... that's quite a difference.

**Give us a call and let us tell you more about... The Dallas Difference.**

**The Dallas Difference™**



103 Park Street  
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248-583-9400  
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[www.dallasindustries.com](http://www.dallasindustries.com)

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Fractional Ads

# WORK-STATIONS



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

Don't buy what you don't need. Optimize productivity by building workstations that match the tasks at hand. Make them height adjustable. Put parts bins and tool holders within easy reach. Build them for multiple workers or just one. Easily modify them. Creform... when you need to continuously improve and get lean.



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# CREFORM AGCs



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

Creform Automated Guided Carts (AGCs) follow a magnetic tape on the floor. Load limits are from 500 lb. up to 3 tons and they can run multiple courses. The Creform System lets you configure an AGC to deliver whatever you need... parts, sub-assemblies or finished goods. All simpler and with a lower investment than typical AGVs.



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# ESD COMPONENTS



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

Ergonomically present static-sensitive electronic parts and sub-assemblies to workers with structures you build using Creform ESD pipes, joints and accessories. Build flow racks, workstations, carts even AGCs with anti-static protection while minimizing floor space. Easily reconfigure them when needs change.



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# FLOW RACKS



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

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# CARTS



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

Design and build exceptionally maneuverable killing carts, push carts, hinged shelf carts sized to your needs using the Creform System of pipes, joints and accessories. Creform carts are lightweight yet strong. Add a hitch and pull them with a Creform AGC. And easily reconfigure them when needs change.



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# 42mm PIPE



WE'RE A WHOLE LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriur, dolor in hendrerit in vulputate velit esse molestie consequat, vel illum.



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We can be a resource beyond the sale of pipes, joints and components, helping you develop solutions to material handling problems and increasing worker productivity. Using the Creform System, we'll work with your team members to help implement continuous improvement and 5-S programs while eliminating non-value added waste. With over 600 Creform components available, we can help you create just about any material handling structure you might need. Workstations, flow racks, carts and automated guided vehicles... to improve your work environment. Creform. Easy to design. Easy to build. Easy to change... because lean manufacturing is never really finished.



**WE'RE A LOT MORE THAN PIPE & JOINTS... WE CAN BE YOUR LEAN MANUFACTURING PARTNER, TOO.**



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**CREFORM**<sup>®</sup>  
**MATERIAL HANDLING SYSTEM**

*IT'S HOW YOU PUT IT TOGETHER THAT SETS US APART.*

Creform's 42mm high-strength steel pipe adds strength to structures while using less bracing and joints, to help simplify them and reduce assembly time.



Bonded plastic coating is available in ivory, gray, blue as well as yellow spiral on black for guarding and ESD rated pipe in light gray.

### Column Protector absorbs impact from forklifts.



Attaching to column without additional fasteners, Protect-it minimizes damage caused by pallet racking from forklift impact. Outer wall is integrally molded to series of curved spring-like energy absorbers at front and sides. Spring clip enables protector to securely grip column and automatically adjusts width to suit variety

of sizes. Available in recognized safety colors, protector is effective down to -40°C/°F. **Konstant Inc.**

(888) 566-7826; Tech Contact: Bud Hanson

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## CUTTING • BENDING

BETENBENDER MANUFACTURING, INC.

# SHEARS and PRESS BRAKES

Versatile. Accurate. Rugged. Simple.

**SHEARS:** 1/8" (10GA), 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", and 1"

**HYDRAULIC PRESS BRAKES:** 50-ton to 300-ton

**WE ALSO PROVIDE KNIFE SHARPENING!**



**Retrofit Backlogues** for Shearless Press Brakes. Made to fit most machines with minimum modifications.

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E-mail: sales@betenbender.com

[www.betenbender.com](http://www.betenbender.com)

[www.jeninfo.com/11077-440](http://www.jeninfo.com/11077-440) or circle 440 on card

### Palm-Size Linux Server can be used for network testing.



Measuring 35 x 103 mm, full-function Model netstix 400xm-cf uses 400 MHz connex motherboard and includes Compact Flash as well as 10/100 Mbit Ethernet connectivity.

Occupying less than 68 cc, it comes with 64 Mbyte RAM and 16 Mbyte flash memory. **Gumstix Inc.** (888) 427-3428; Tech Contact: Don Anderson

[www.jeninfo.com/11077-434](http://www.jeninfo.com/11077-434) or circle 434 on card

### Mobile Shop Desk provides writing surface and storage for files.

Measuring 23 x 20 x 51 in., 16 ga steel desk has stand-up writing surface, shelf area fitted with pencil rest lip, 2 drawers mounted on ball bearing slides with recessed pull handles, and lower storage compartment with flush handle. Four 3 in. rubber plug-in casters support up to 500 lb. **Durham Mfg Co.** (800) 243-3774; Tech Contact: Josh Hatton

[www.jeninfo.com/11077-435](http://www.jeninfo.com/11077-435) or circle 435 on card



Over 50 42mm supporting joints, accessories and casters available. 42/28mm transition joints provide access to all Creform components.

Interior coating provides additional corrosion protection.

Build wide-span and heavy-duty flow racks, sturdy workstations, high-capacity carts or machine guarding.

### 10-Port Ethernet Switch operates from -40 to +75°C.



Model ET-10MG includes eight 10/100 Mbps RJ45 ports plus 2 Gbit combination ports for copper or fiber connections. RJ45 copper ports support autonegotiating, autocrossover, and autopolarity for plug-and-play connections. With open-source Linux and real-time network management, switch can detect and report network problems before they get out of hand. It is rated for Zone 2 hazardous locations. **Sixnet.** (518) 877-5173; Tech Contact: Mike O'Connor

[www.jeninfo.com/11077-441](http://www.jeninfo.com/11077-441) or circle 441 on card

### Manual Spray Gun optimizes transfer efficiency rates.

Compact Performance Series uses Computational Fluid Dynamics technology to model passageways and air caps to reduce turbulence and enhance atomization process. It is offered in suction, pressure, and gravity feed versions. Conventional, HVLP, and Trans-Tech Spray models have brass air caps, SS fluid tips, and needles compatible with all industrial spray coatings. **DeVilbiss.** (800) 992-4657

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**UL** **CE** **WELCO**

**WP-1000** **WPX-1**

DC 24V Driven  
1.25 to 270 ml/min Discharge Range

## OEM Peristaltic Pump

New design that eliminates the need for tools

**WELCO Co., Ltd.** <http://www.welco.net>

3-28-1 Sumiyoshi-cho, Fuchu-shi, Tokyo, 183-0034, Japan  
E-MAIL: info@welco.net  
TEL #81-42-333-7311 FAX #81-42-333-7313

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### Bearing Grease holds up under high speeds.



Biodegradable Type Isoflex LDS 18 Special A, which comprises ester oil, mineral oil, and lithium soap, acts as long-term and low-noise grease. Type Isoflex NBU 15

with pressure absorption capability is formulated with ester, synthetic hydrocarbon, and mineral oils as well as barium complex soap. Both withstand high speeds and provide resistance to corrosion, oxidation, aging, and water. **Klüber Lubrication.** (800) 447-2238 (336) 337-3482; Tech Contact: Charles Poston

[www.jeninfo.com/11077-438](http://www.jeninfo.com/11077-438) or circle 438 on card

### Lift Tables

**FREE LIT:** In-depth and comprehensive brochure introduces high-cycle lift tables that are warranted and guaranteed long-lasting for at least 1 million cycles. **Advance Lifts Inc.** (800) 843-3625



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It's more than a  
**42mm PIPE...**

...it's a  
**171% increase in capacity.**

Creform's 42mm pipe and joints, when compared to the more traditional 28mm size, open up a whole new world of structure design and build opportunities. We're dedicated to providing components to help in your continuous improvement and lean programs. Ask your Creform sales engineer for design assistance or example drawings of 42mm structures.

**CREFORM**  
MATERIAL HANDLING SYSTEM  
IT'S NOW YOU PUT IT TOGETHER THAT SETS US APART.

[www.creform.com](http://www.creform.com) • 800-839-8823

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the answer's not  
hard to find.

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We've developed workholding solutions for compressors and transmissions and expertise in automotive applications fits your process. From cylinders, we offer a complete line of workholding solutions.

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**ITW Workholding** an ISO9001:2000 Registered Company

Gear Workholding.

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the answer's not  
hard to find.

www.itworkholding.com

When it comes to workholding solutions for gear machining, N.A. Woodworth provides a wealth of technical knowledge, expertise and engineering assistance that sets us apart. Our various designs include our Universal Gear (UG) and our newly developed Pitch Line (PLD) diaphragm chucks. We have the product to fit your process. All built with precision and accuracy. Solutions for gear machining.

**N.A. Woodworth**

Workholding Worldwide  
2002 Stephenson Hwy. • Troy, MI 48063  
800-544-3823 • Fax: 248-743-4401

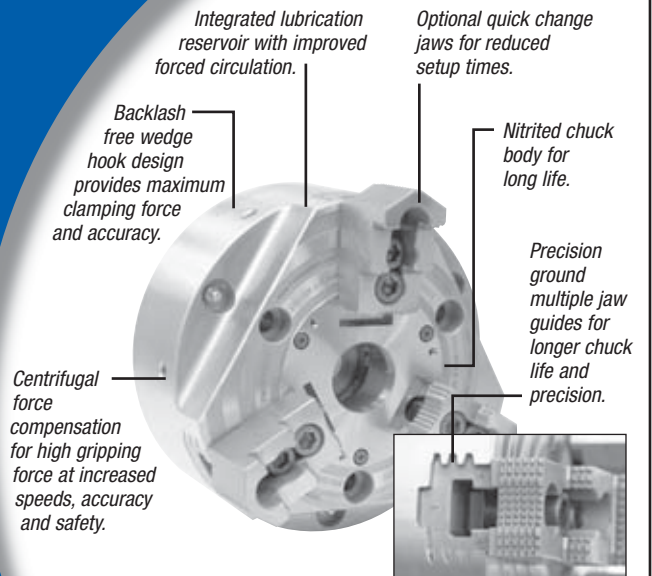
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LONGER  
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ABOUT  
LONGER  
TOOL  
LIFE...**



**IT'S  
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PIN &  
CORE  
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Tool:	Core pins
Material:	H13 die steel
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Surface Modification:	TD Coating
End Result:	10,000 shots prior to service

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...and the company that makes it happen. The numbers speak for themselves. TD Center can help prolong pin, core and die life. Our process helps reduce soldering, corrosion, erosion, wash-out, wear and heat checking. Its advanced method of hardening steel surfaces by diffusing a Vanadium Carbide layer onto and into the surface creates a non-porous, sealed adhesive bond that is far stronger than any deposited coating. TD Coatings will not chip, peel, or spall off the substrate. As the original North American supplier of the thermal diffusion process, TD Center brings the expertise, guided service and know-how to extending tool and component life in the die casting industry. Contact TD Center for answers to extending core, pin and die life.

How can a little paint blemish cost that much? Simple. If you have just one dirt speck like this a day, five days a week, 50 weeks a year, for the average life of a paint shop, or 20 years, that can add up to a million dollars in paint repairs. Using Hosco smooth-bore, cavity-free, silicone-free stainless steel fittings in your paint delivery system, whether the system is new or an upgrade, can help avoid this problem. Ask us how you can wash your hands of dirty paint.



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\$1,000,000 PROBLEM  
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If all you're looking for in a coating is corrosion resistance, you may be missing the mark. Corrosion resistance is important, but so are other variables. Will the coating hinder assembly? Will the coating torque and tension parameters? Is the coating environmentally sound? Is it spec'd? Does your coatings' supplier provide the support and technological know-how? So many questions. One simple answer. Dörken.

Our product line includes:  
Delta-Protect<sup>®</sup> — inorganic coating system  
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Delta-Seal<sup>®</sup> — topcoat systems for a variety of metals  
Delta-Coll<sup>®</sup> — clear and black topcoats for zinc and zinc alloy electroplating

To ensure your assembly and to learn more about our Delta<sup>®</sup>MKS series of products go to [www.doerkenusa.com](http://www.doerkenusa.com). or call 734.327.4188.

HARD TO SAY

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COATING WHIZ KIDS

**If it's Delta, it's Dörken.**

Allow us to set the record straight. The Delta<sup>®</sup>MKS line of coating systems is a trademark and product of Dörken. Anyone who thinks differently, is unfortunately wrong. As specialists in micro-layer coating systems, we develop, manufacture and configure extremely effective surface protection for a variety of fastening needs.

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Delta-Seal<sup>®</sup> — topcoat systems for a variety of metals  
Delta-Coll<sup>®</sup> — clear and black topcoats for zinc and zinc alloy electroplating

Remember, if it's Delta it's Dörken. To learn more about our Delta<sup>®</sup>MKS series of products go to [www.doerkenusa.com](http://www.doerkenusa.com). or call 734.327.4188.

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WORLD-CLASS TREE HUGGERS

**Chromium VI free for 27 years.**

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Delta-Seal<sup>®</sup> — topcoat systems for a variety of metals  
Delta-Coll<sup>®</sup> — clear and black topcoats for zinc and zinc alloy electroplating

To learn more about our commitment to the environment and Delta<sup>®</sup>MKS series of products go to [www.doerkenusa.com](http://www.doerkenusa.com). or call 734.327.4188.

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ART SMART

**Good coverage.**









The true test of a high-quality fastener coating is pretty simple. But it's also an art form. The coating has to be thick enough, but not too thick. It has to lay on smooth. It has to have a pleasing appearance. Delta<sup>®</sup>MKS coatings from Dörken meet all the criteria. Dörken is an art specialist in the design, development and manufacture of micro-layer coatings systems for a variety of fastening needs.

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Delta-Tone<sup>®</sup> — non-electrolytic zinc flake basecoat system  
Delta-Seal<sup>®</sup> — topcoat systems for a variety of metals  
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Want to see the art gallery? Go to [www.doerkenusa.com](http://www.doerkenusa.com). or call 734.327.4188.


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 <p><b>TLZ FLYING OPTICS LASER SYSTEM</b></p>  <p><b>TLV HYBRID LASER SYSTEM</b></p>  <p><b>TLX HYBRID LASER SYSTEM</b></p>  <p><b>TLM 5-AXIS 3-DIMENSIONAL LASER SYSTEM</b></p>	<p><b>MON.</b></p>  <p>Mild Steel (0.080 in.)</p>	<p><b>TUES.</b></p>  <p>ABS Plastic (0.094 in.)</p>
	<p><b>WED.</b></p>  <p>Armor Plating (0.390 in.)</p>	<p><b>FRI.</b></p>  <p>Stainless Steel (0.042 in.)</p>

**IF THIS IS A TYPICAL DAY AT YOUR SHOP, WE SHOULD TAKE...**


When you're looking for flexibility and speed. The flexibility to cut thin flat sheet metal shapes the next word, flexible changing production needs the simplest. Our 3-axis laser cutting speed. With a cutting feed rate of  $\pm 0.0005$  in. per inch the standard. So whether you're cutting Monday, please on Wednesday cutting resource.




**TLV HYBRID LASER SYSTEM**



**TLM 5-AXIS 3-DIMENSIONAL LASER SYSTEM**



**TLV HYBRID LASER SYSTEM**



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**NTC America**  
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www.ntclaser.com



<p><b>MON.</b></p>  <p>Titanium (0.030 in.)</p>	<p><b>TUES.</b></p>  <p>Mild Steel (0.050 in.)</p>
<p><b>WED.</b></p>  <p>Galvanneal (0.039 in.)</p>	<p><b>FRI.</b></p>  <p>Aluminized Steel (0.046 in.)</p>

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When you're looking for flexibility and speed. The flexibility to cut thin exotic alloys the next word, flexible changing production needs the simplest to most demanding. Our 5-axis laser cutting speed. With a rapid feed rate cutting feed rate to 1,181 in. per inch of  $\pm 0.0012$  in. per inch the standard for 5-axis laser cutting. So whether you're cutting Monday, mild steel on Tuesday or Wednesday, think of NTC as your laser cutting resource.



**TLV HYBRID LASER SYSTEM**



**TLM 5-AXIS 3-DIMENSIONAL LASER SYSTEM**



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FROM 3-AXIS TO 5


- FROM 2-D
- FROM PRO
- PRODUCT
- FROM FLA
- COMPLEX
- FROM ONE
- FROM PRO
- TO SERVIC
- FROM JOB
- PRODUCT
- FROM 1.18
- $\pm 0.0012$  TO
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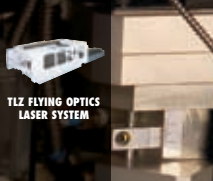


**WHAT ARE SOME OF THE MOST IMPORTANT SPECS ON AN NTC LASER SYSTEM? HOW ABOUT 6'2" & 174 LBS.**


When you buy a laser cutting system, the last thing you want to think about is service. But at some point you're going to need it. And that's why when you buy an NTC America laser cutting system, our NTC service pros come standard. Our experienced laser technicians provide the service you need when it's convenient for you, not us. Whether it's on the phone or a service call to your shop within 24 hours, our factory-trained technicians are there for you. Our service engineers go through an ongoing training regimen to ensure their skills are sharp and focused to the challenges of today's machines and today's manufacturing environments. So the next time you spec a laser cutting system, check out the most important spec. The service spec.




**TLV HYBRID LASER SYSTEM**



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**NEWS RELEASE**

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 Kracoe Szykula & Townsend, Inc.  
 2950 W. Square Lake Rd., Suite 207  
 Troy, MI 48098  
 Ph: 248.641.7500 Fax: 248.641.4779  
 Email: szykula@ksthlp.com

Product Information—For Immediate Release  
**FAIRLANE PRODUCTS INTRODUCES LINE OF  
 EXTENDED SHAFT DRIVE ROLLERS**

Fairlane Products, Inc. (Fraser, MI) has introduced a new line of rollers—rollers that lock onto a shaft to form a handling system.

Fairlane Products' extended shaft rollers are designed to lock onto shafts and come assembled with bearings on one side of the roller and is flush with the shaft.



For further editorial information:

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 2950 W. Square Lake Road  
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 Troy, MI 48098  
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 Fax (248) 641-4779

News Information — For Immediate Release

**CYSTIC FIBROSIS FOUNDATION  
 HONORS BUSINESSMAN**

The Metro Detroit Chapter of the Cystic Fibrosis Foundation has presented Alan P. Kracoe, Szykula & Townsend, Inc. with a special award in recognition of his business and community endeavors, in celebration of the company's 2002 CFF Celebrate Business Award. Kracoe, Szykula & Townsend, Inc. is a member of the Cystic Fibrosis Club, an event held annually in Troy, MI. Kracoe, Szykula & Townsend, Inc. is a member of the Cystic Fibrosis Club, an event held annually in Troy, MI.



**News  
 FOR IMMEDIATE RELEASE**

For further editorial information contact: Ed Szykula  
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 Troy, MI 48098 • 248.641.7500

**Hougen**

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RAPID  
PROTOTYPING...  
IT'S NOT  
JUST THE  
MACHINES,  
IT'S THE  
MINDSET.





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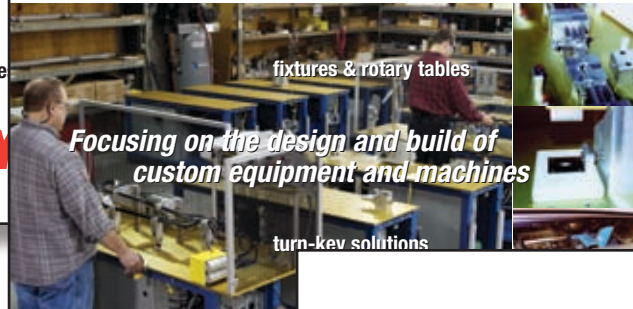
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ELECTRONICS - ESD HANDLING AND TOTES



FOOD PROCESSING - DISTRIBUTION CONTAINERS



MATERIALS HANDLING - AUTOMATION PARTS



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CO<sub>2</sub> LASER CUT



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**TL**

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GANTRY  
CO<sub>2</sub> LASER CUT



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**TLV**

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CO<sub>2</sub> LASER CUTTING S

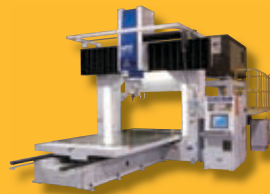


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Catalogs

## CREFORM PLASTIC JOINTS - 28MM

Plastic joints for connecting 28mm (1.1") x 1.1875" x 1.1875" (30mm) extruded metal, perforated attachment & accessories using only specially formulated Creform Adhesive ZV 201. Components are in millimeters. See Technical Section II for plastic joint data. When ordering, specify color code, see page 3-1.



**28-1000**  
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**28-1003**  
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## CREFORM ESD METAL JOINT COMPONENTS & JOINT SETS - 28MM

Identical fit to components are combined with 28-10 bolts and 28-10 nuts, see page 3-2 for form A to 10 part alternatives for 28mm. Used continuously used to assemble anti-static Creform structures. Components are in millimeters. See Technical Section II for metal part data.



**28-1100**  
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## CREFORM ACCESSORIES CHANNEL & EXTRUSIONS

Dimensions are in millimeters. When ordering, specify color code, see page 3-1.



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MEETINGS

FRIDAY AUGUST 18, 2006

**8am – 11am**

**Product Demonstration**

- See our latest tools at work on H&M and heritage machines.
- Learn techniques that can help improve your productivity.

**Product Support**

- Wiring, Turning, Drilling, Sawing, Boring and more.

**Product Manager Q&A**

- Our subject Product Managers will be on hand to answer your questions.
- Bring in your problems and we'll help you find solutions.

**Training**

- Check out our new training facilities.
- Meet the Trainer.
- Schedule training classes for your company.

**Facility Tours**

- Walk through Valenite's new Customer Center.
- Engineering, Customer Service, Product Development and more.

**11am – 1pm**

**Classic Car Show**

- Get your latest ride in all sorts of special poses.
- Enjoy touring through the classic cars and see the work behind them.
- Enjoying and seeing in the classic car shows.

**Lunch**

- Outdoor bar/BBQ.

**Entertainment**

- Live bands to entertain you with the latest tunes.

**1pm – 5pm**

**Product Demonstration**

- See our latest tools at work on H&M and heritage machines.
- Learn techniques that can help improve your productivity.

**Product Support**

- Wiring, Turning, Drilling, Sawing, Boring and more.

**Product Manager Q&A**

- Our subject Product Managers will be on hand to answer your questions.
- Bring in your problems and we'll help you find solutions.

**Training**

- Check out our new training facilities.
- Meet the Trainer.
- Schedule training classes for your company.

**Facility Tours**

- Walk through Valenite's new Customer Center.
- Engineering, Customer Service, Product Development and more.

**5pm**

**Breakout on the Boardwalk**

- Transportation will be made available to and from the Woodward Dream Cruise.



**Product Support**

- Wiring, Turning, Drilling, Sawing, Boring and more.

**Product Manager Q&A**

- Our subject Product Managers will be on hand to answer your questions.
- Bring in your problems and we'll help you find solutions.

**Training**

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**5pm**

**Breakout on the Boardwalk**

- Transportation will be made available to and from the Woodward Dream Cruise.

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August 17 & 18, 2006

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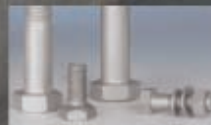
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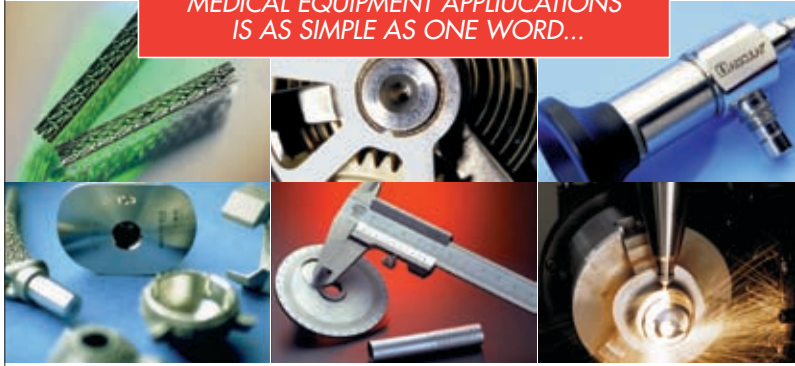
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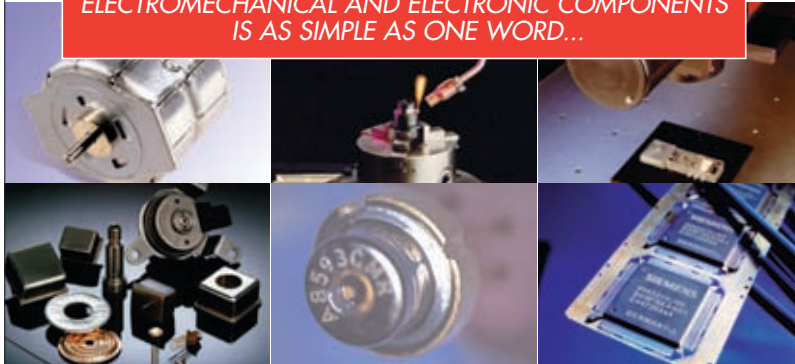
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THEY'RE GLOBAL,  
THEY'RE A LITTLE  
OUT OF THEIR  
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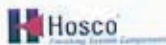
"Dirty Paint"™ is made up of 62% of all paint defects that are caused by contaminants in your paints, introduced by either the delivery system. Unless it's the patented cavity-free technology available only from HOSCO: filters, converters and dispensers, needles, hoses, seals, check valves, flares, and encapsulated ball valves — all without the vents, screens, traps, leaks and clogging where dirt and dry paint particles can accumulate. — Then think that in a HOSCO run your paint. From the ball valve to the cap, HOSCO cavity-free finishing system components, for manual and automatic applications, provide a smooth, consistent flow, and there's no place for dirt to hide. Not even under the balls.



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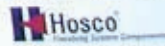
You're going with the big guns, now convert to ours. — All the cavity-free finishing system components from HOSCO. The patented cavity-free design means no internal pinholes, traps, or clogging where dirt and dry paint can accumulate. — And, in addition, our finishing system is made up of stainless steel ball valves, check valves, flares, and encapsulated ball valves — all without the vents, screens, traps, leaks and clogging where dirt and dry paint particles can accumulate. — Then think that in a HOSCO run your paint. From the ball valve to the cap, HOSCO cavity-free finishing system components, for manual and automatic applications, provide a smooth, consistent flow, and there's no place for dirt to hide. Not even under the balls.



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One of the advantages of being part of a large, multi-faceted company is the ability to call upon a wealth of resources to satisfy customer needs — sometimes working across division lines to produce complete systems that solve customer issues and save customer dollars.

A disadvantage of large, multi-faceted companies is that they sometimes tend to lose the personal touch that is so important to customer satisfaction.

Here at Meritor, we definitely *don't* want that to happen. That's why we encourage you to communicate with your local Meritor representative — and with us — regarding any questions and/or concerns you may have.

We began this newsletter with the vision that it would be a two-way communication. That's why we named it **back@you** — and that's why we include space in every issue for your comments and questions. Our first few issues have been successful in that they have generated much feedback from you — our readers. By your telephone calls, letters, e-mail messages and your conversations with our local representatives, we know that you're reading our newsletter and want more information. Please keep corresponding with us. If you have a question, comment, suggestion, or even a concern, please let us know. ■

Brenda Meerschaert,  
Editor

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## North America's First "No Clutch Pedal" Automated Mechanical Transmission

Meritor Automotive and ZF Friedrichshafen AG finalized a joint venture agreement on Sept. 1, 1999. The joint venture, named ZF Meritor LLC, will produce technologically-advanced medium- and heavy-duty transmission systems and components for original equipment manufacturers and the aftermarket, in the United States, Canada and Mexico.

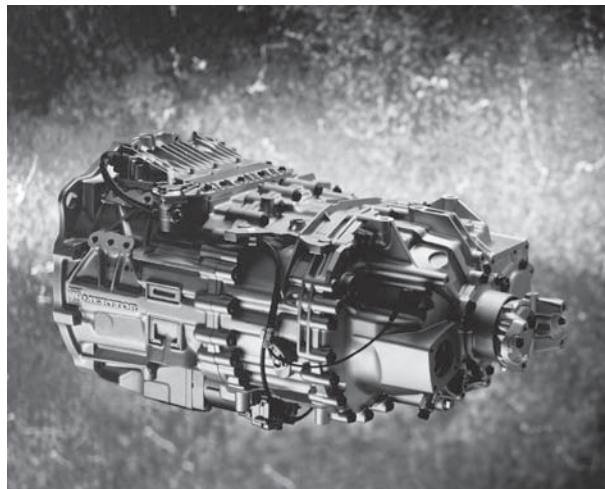
The joint venture combines the strengths of Meritor's marketing and distribution capabilities and existing line of transmission products with ZF's technological expertise to engineer advanced truck transmission components and systems. Sales and service of the complete product range will originate and be managed on behalf of the joint venture by Meritor's

100-person sales department, which includes its North American field operations and aftermarket teams.

According to Rick Martello, ZF Meritor President, "The combination of ZF's technical expertise, along with Meritor's marketing and distribution know-how, will provide the industry with a broader scope of state-of-the-art products and services — while this venture supports our business objective to be the best single-source supplier of commercial transmissions in North America."

The first product from the joint venture — the FreedomLine™ transmission — was announced on Nov. 2, 1999. Offered in 12- and 16-speed versions, FreedomLine transmissions are the first fully-automated mechanical heavy truck transmissions without a clutch pedal and will be available on North American OEM production vehicles in fall 2000.

"Our new FreedomLine is the next evolutionary step in the industry because it offers freedom from shifting, freedom from clutching, freedom from extensive driver training, freedom from clutch and linkage adjustment, and freedom from wear and tear," Martello said, noting that the impact of these freedoms on both maintenance and the driver. "FreedomLine ensures perfect shifts all the time. By eliminating wear-and-tear associated with clutching, operators should experience lower total maintenance costs." ■



**FreedomLine™ transmission - fully automated mechanical heavy truck transmission. Available through North American OEMs in fall 2000.**

## Meritor "Steers" Customers Right

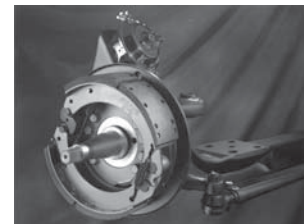
Meritor has launched a new line of heavy-duty front non-drive axles that offer the tightest turning radius in the industry, easier steering in hard braking situations, less weight, and design features that simplify maintenance. The new axles are available in gross axle weight ratings (GAWR) of 10,000 to 20,000 pounds (4,536 to 9,072 kg).

This new front axle series features a modular design which allows for parts interchangeability with the company's current front axle line. Steering knuckles, beams and wheel end equipment are interchangeable for increased parts availability, reduced parts inventory and

simplified service. Both conventional and unitized wheel ends are available.

Standard features include a wider 71.5-inch kingpin inclination; 3.74-inch and 5.0-inch axle beam drops; low friction bushings; induction hardened keystone steering arms; and double draw keys. Options available with the unitized wheel end models include an integral steering knuckle, tie rod arm and brake spider, and an integral steering knuckle thrust bearing and seal.

Six axle models in the new series available with both conventional and unitized wheel ends, are designated MFS-10-1015/16-N, MFS-10-2015, MFS-12-1015/16-N, MFS-12-2015.



**New modular heavy-duty front non-drive steer axles from Meritor.**

An additional six conventional axles are designated MFS-13-1015/16-N, MFS-14-1015-N, MFS-16-1015-N, MFS-18-1017-N, MFS-20-1017-N. The axles are now available through all North American original equipment manufacturers. ■

**For more information, call 800-535-5560 or contact your Meritor representative.**



# HOUGEN **EDGE**

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## ***ELIMINATING BARRICADE TO EFFICIENT GUIDE RAIL INSTALLATION***

Elderlee, Inc., of Oaks Corners, NY, is a leading manufacturer of highway and bridge rail components, in addition to its role as installation contractor for these products throughout the state of New York. But, a recent change in guide rail design and its subsequent hindrance to field installations had company officials seeking a solution.



Elderlee's Construction Manager, Bob Shipley, explains — "New designs have increased the size of the guide rail's box beam," says Shipley, "from a 3" x 5" tube to a full 6" x 6" square. Mounting the box beam to posts requires on-site installation, drilling 1" diameter holes through two sides of the tubing, across the 3" dimension using a magnetic base drill. With the switch to 6" square tubing, beyond the drills' stroke and depth capacity, we had a problem. We contacted Hougen for help."

The solution was the Hougen® Portable Magnetic Drills Model 10914, specially modified to provide a 6" stroke and to use Hougen's "11,000-Series" Rotabroach® Annular Cutters, which have a longer arbor/shank, thus a longer reach, than the cutter series the drills typically use.

Again, Mr. Shipley relates the significance of this development. "Specifications for a guide rail may dictate post spacing every eight feet," he says. "For a one-tenth of a mile rail section (528 ft.) that would mean approximately 66 posts, and at every post and rail mounting, we have to drill 24 holes for a four-rail guide rail. That means over 1,500 holes through the 3/16" or 1/4" walls. Without the extended reach provided by the magnetic drill, each rail would have to be drilled through one side, flipped over, marked with layout lines, and drilled through the second wall."

Typically, the Hougen Model 10914 magnetic-base drill, provides a 3" depth of cut and hole diameter capacity to 2-1/16" even though it weighs just 44 lbs.

The second element of the guide rail drilling solution is the use of the annular cutters, and in particular, the "11,000-Series" tools. The concept and geometry of the annular cutters, meaning they're hollow, were developed by Hougen over 40 years ago. Because they are hollow and cut only at the periphery of the hole, they require less power and force to drill holes than traditional holemaking tools such as twist drills or spade drills. It was this reduction in power requirements that allowed Hougen to develop the first lightweight drill more than 25 years ago — when other

"portable" magnetic drills weighed twice as much.

Usually, the 10914 unit uses "12,000-Series" annular cutters, but because they are only available in standard sizes up to 3" depths, the drill was modified to use "11,000-Series" cutters. Typically reserved for holemaking in sheet metal and plate stock to 1/2" thick, the cutters and



their arbor assembly provide additional length which, in conjunction with the added stroke of the drill, provided the reach Elderlee needed.

"In responding to our special requirements," Mr. Shipley notes, "Hougen and its distributor, Hanes Supply, developed the solution that will keep our guide rail projects on schedule. Plus, our field installation crews have all indicated a strong preference for the performance and ease of use the Hougen drill and cutters provide." ●

**NEWS FOR THE PRESS ROOM INDUSTRY**

**The New Dallas Phone System**

We have recently installed a new and improved Dallas phone system, designed to better serve our customers and prospects. We've provided the directory below so you can easily reach the people you may need to call most often. All extensions in the new system also have voice mail, which you will find especially convenient for after business hours.

**248-583-9400**  
**FAX: 248-583-9402**  
**www.dallasindustries.com**

**Sales Department**

Brian Landry ext. 107  
 Sam Manzella ext. 109  
 Larry Adams ext. 111

**Parts Department**

Aaron Demers ext. 110

**Technical Service & Support**

Brad Claes ext. 108  
 Pager 800-815-9034  
 Barry Bryan ext. 129  
 Chris Mitchell ext. 129



**In a family way...expecting  
 CONTINUED GROWTH**



*For over 44 years, this Michigan-based forming, fabricating and assembly shop has been an industry leader... thanks to hard work, customer service and its press feed technology partner.*

It's one of the oldest dreams in America. Start your own business, be your own boss, do things your way, the right way. For Clem Zmyslowski, that dream started in 1956 with the founding of Radar Industries, Inc. (Roseville, MI). A couple of presses, some welding equipment, a handful of metalworking machines, all jammed into a 4,000 square foot building.

Today, Radar Industries occupies two manufacturing facilities plus a centralized distribution center, totaling over 250,000 square feet. With more than 30 presses, including 20

automatic line-fed systems for forming, hardware and structural components such as hood hinges, door reinforcements and anchors, transmission pressure plates, spring retainers, hub plates and differential covers. The industries they serve are the automotive heavy truck, off-road and construction, appliance and lawn/garden equipment.

Now, Mr. Zmyslowski's family shares the dream - his five children own the business - and three continue his work there. David Zmyslowski is President, Mark Zmyslowski is Executive Vice President and daughter

Nancy Bordato is Director of Purchasing. According to Mark, his father's "principles of integrity, commitment to customer service and his philosophy of always asking 'What have I done today to make tomorrow better?' are largely responsible for our growth and wide-spread customer base."

Zmyslowski notes also that much of the success Radar Industries has earned is attributable to its recognition, acceptance and acquisition of advanced technologies as a means to continuously improve quality and productivity.

Continued on next page

Kracoe  
Szykula



Townsend<sup>INC.</sup>  
Advertising • Public Relations

Logos & Identity



BrightStar  
International



## U.S. LETTERHEAD

Trim Size: 8-1/2" x 11"

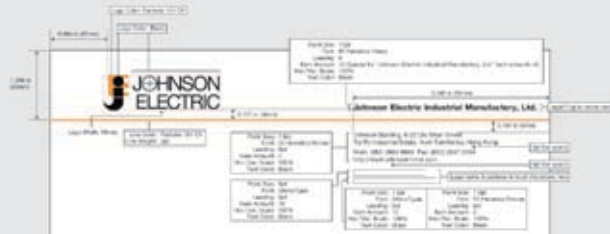
**Recommended Paper Stocks:**  
Neenah Bond, pure white, light  
cookie finish, 24 lb. bond, 25%  
rag content; or Gilbert Bond,  
pure white, light cookie finish,  
24 lb. bond, 25% rag content.

**Optional Paper Stocks:**  
Gilbert Recycled, white, wove  
(cookie) finish, 24 lb. bond, 25%  
cotton; or Strathmore Writing,  
white, wove finish, 24 lb., 25%  
cotton; or recycled equivalent  
stock.

**Second Sheet:**  
Same as Letterhead but blank.

**Printing:**  
Lithography only. Do not use  
thermography or engraving.

**Color:**  
Symbol prints Johnson Electric  
Orange (PMS 151) and Black.  
Logotype and copy print black.  
Rule prints PMS 151.



## LOGO STANDARDS

**T**his manual is a useful  
tool designed to help  
you manage the  
implementation of the  
Johnson Electric logo and  
identity. Much thought and

consideration has been given to  
the proper usage of our  
corporate logo. All positioning,  
alignment, spacing and scale of  
the symbol and logotype are an  
integrated element and must

always be used together and in  
precisely the same spatial  
relationship. **Do not modify the  
logo in any way.**

### CORPORATE LOGOS



The logo art is printed in Orange for  
For black & white printing, the



The Johnson Gate logo follows the same  
Gate set

CORP

Excellence

LETTERHEAD

ENVELOPES

BUSINESS CARDS

SIGNAGE

TRADE SHOWS

PRESENTATIONS

International  
Identity  
Standards

**Corporate Identity**

responsibility to protect and promote the application of our corporate identity. This manual and the accompanying logotype (in PMS and black) are a result of the company's commitment to graphic presentations of the company name, particularly as it appears on printed matter. It provides the rules and standards for establishing materials that carry our name.

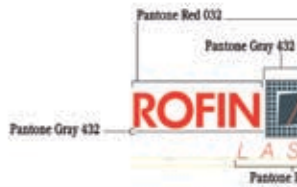
The objective of this guide is to aid in linking the Johnson Electric logo to a leadership position in the minds of customers and industry influencers. Within our chosen markets, the Johnson Electric logo would be an easily recognizable symbol. Adherence to common and consistent standards will communicate that Johnson Electric is a well-organized and disciplined company.



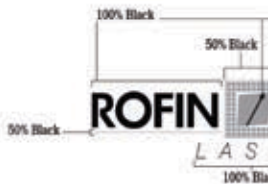
Our corporate identity represents one of our greatest assets, — a visual image that strongly influences how we are perceived by various publics, as well as by ourselves. As a corporation, we have the continuing responsibility to protect and promote that image through proper application of our corporate identity/logo.

This manual is a resource for Rofin-Sinar employees involved with graphic presentations of the Company name, particularly as it appears on printed matter. It provides the rules and standards for establishing materials that carry our name. The end of this booklet provides reproducible logo types that can be used in both black & white and color. A 3 1/2" disk is also available for use with Windows-based programs. All typography except for logo is to be set in Helvetica. No typography is to be set in bold face, except when noted. Careful consideration must be given to placement of centering, flush right and flush left — again, please follow template. All address and phone information typography is to be printed in black.

**For Color Reproduction**

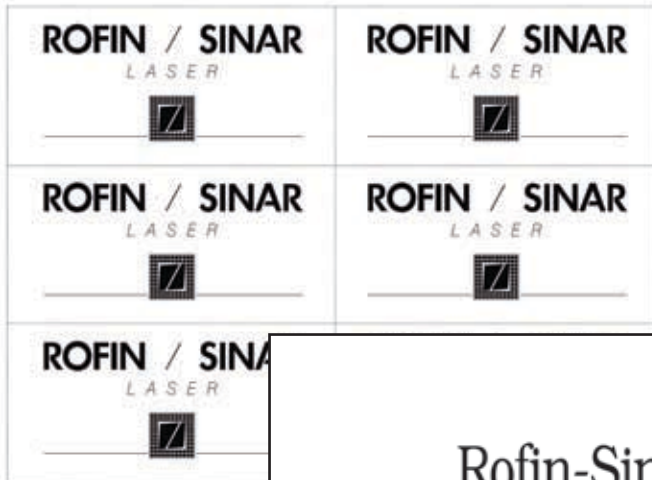


**For B/W Reproduction**



**Color and B/W Reproduction for Printing Purposes**

Reminder: For color usage the words Rofin, Sinar and Laser as well as the diagonal line within the logo graphic print Pantone 052. The remaining logo graphic and underline print Pantone Gray 432. For b/w usage the words Rofin, Sinar and Laser, as well as the diagonal line within the logo graphic print black, the remaining logo graphic and underline print 50% black.



**For Single Scan, Color and B&W**



# Rofin-Sinar, Inc. Corporate Standards Manual



Kracoe  
Szykula



Townsend<sup>INC.</sup>  
Advertising • Public Relations

Websites

**Quick Facts:**

Our site allows you to...

- Find pricing and order online
- View on-screen CAD models
- Download CAD models

Need to speak with a person?  
Call 888.794.8687

**FIXTUREWORKS | COMPANY**

Fixtureworks™ (Fraser, MI) provides a variety of precision modular and dedicated fixturing devices as well as workholding and positioning components. Products include rest pads, grippers and Swivots® from Fairlane Products; clamps, modular fixturing and set-up accessories from Imaag; fixturing clamps from OK Vise®; low profile edge clamps from Mitee Bite®; and rest pads and tooling accessories from Kipp®.

**More About Fixtureworks**

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**PRODUCT SELECTION**

- ➔ Modular Fixturing
- ➔ Clamps
- ➔ Supports and Stops
- ➔ Workholding & Positioning
- ➔ Workholding Accessories
- ➔ Quick Release Ball Lock Pins
- ➔ Adjustable Levers & Handles
- ➔ Knobs, Handles & Hand Wheels
- ➔ Spring & Ball Plungers

Keyword  Part Number

**Modular Fixturing**

A full range of grid plates and blocks in rectangle, square and angle shapes in both two and four sided configurations. Blank plates and blocks also available. Manufactured with the highest quality and precision machined.

Modular Fixturing

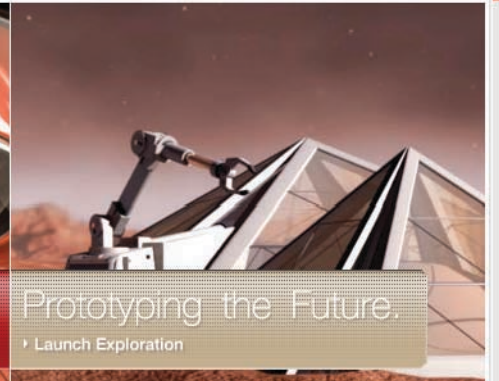
UP A LEVEL LIST VIEW



**3-Dimensional Services Group**



Prototyping Today.  
View Portfolio



Prototyping the Future.  
Launch Exploration

The Laser Group of NTC America is a leading manufacturer of 3 and 5 axis laser cutting and welding systems. The 2-dimensional, 3-axis series of machines feature high speed, flexibility and accuracy as their hallmarks. The 3-dimensional, 5-axis systems ideal for cutting and welding complex contours and shapes.



**NEWS:**

- [Versatile Laser Processing... 5-Axis Laser System from NTC](#)
- [Size and Precision in 3-Axis Laser Cutting System](#)
- [Wide Ranging Performance in a 3-Axis Laser Cutting System](#)
- [New 3-Axis, Advanced Laser Series Features Ultra-Fast Speeds](#)
- [NTC America Showcases New Facilities and New Personnel Appointments](#)

The Laser Group - NTC America Corporation | 46605 Magellan Drive | Novi, MI 48377  
Phone: 800.NTC.LASER | Fax: 248.560.0215 | [sales@ntclaser.com](mailto:sales@ntclaser.com)

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Gaging Systems

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## World of VGAGE

Experience. Know how. Ingenuity. The three cornerstones of VGAGE, formerly Valenite Gaging Systems. Our ownership and name may have changed but our pedigree and dedication remains the same. If anything, our focus on providing quality gaging systems and products has heightened. For over 40 years, the company has produced World-class measurement solutions for a broad range of industries with a broad range of applications. Whether it is the simplest of hand, fixture and bench gages to custom gages, calibration services, tool compensators and computer instrumentation, VGAGE is a leader in innovative gaging products and services. Our emphasis on product research and development, as well as our responsive customer relationships has led us to provide real-World solutions to the "World" of gaging.

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VGAGE now offers a complete tool repair service. We will manage your tool repair requirements. Let us be your single source for Gaging, Tooling and service repair. Our performance and quality will amaze you!

## VGAGE is now a Valenite Dealer

VGAGE is an authorized dealer of Valenite standard and special tooling. VGAGE can now be your single source for all your gaging and tooling requirements. VGAGE offers the great customer service and the lowest possible price in the industry. Call [800-368-2828](tel:800-368-2828) or [vgage@valenite.com](mailto:vgage@valenite.com) to learn more about our products or have a salesperson visit your location.



**DIMENSIONAL CERTAINTY + SERVICE PERFORMANCE**

Gage Stations/Benches



VGAGE has been providing customers with complete gaging solutions. Ability to store the hand gages and fixture gages on a bench or stand include custom designed storage to provide specific, tagged positions. Gages can also be placed on the back of the bench to provide the open procedures on the inspection process of parts. [...MORE](#)

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### WORKHOLDING & POSITIONING

SWIVOTS	THRUST SCREWS	REST PADS	GRIPPERS	ROLLERS	BUMPERS

Swivots

Swivel-action holding and positioning products including housing, replaceable serrated or smooth ball or ball assembly, and an O-ring to seal out contaminants, and facilitate the swivel action and replaceability.

### ROLLERS & BUMPERS

#### Customer Login

Login is only required to order

► Username :

► Password :

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#### Company Overview

We design, manufacture and stock a wide range of workholding and positioning components, as well as rollers and bumpers for materials handling, assembly and manufacturing. The workholding and positioning components provide for faster speeds and feeds, and their modular and economical replaceable wear surfaces extend the life of expensive jigs, fixtures, jaws and clamping mechanisms.

Our line includes serrated grippers, low-profile edge grippers, single point and straight serration grippers, as well as Swivots® -swivel-action modular component workholding system incorporating a serrated or smooth contact area that rotates and pivots for holding and

#### Company News

- [08/15/05 Fairlane Products introduces line of square, rectangular and special cut bumpers.](#)
- [08/15/05 Fairlane Products adds new metric sizes to counterbore gripper line.](#)
- [08/15/05 Fairlane Products introduces line of extended shaft drive rollers.](#)
- [08/15/05 Fairlane Products announces new metric and inch lengths and thread sizes for adjustable gripper line.](#)

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Delivering consistent, clean paint & finishes

from the paint room to the gun.

#### News & Events

**NEW 3-WAY BALL VALVE GIVES DIRECTION TO FINISH LINES**

HOSCO, an Illinois Tool Works Company and manufacturer of paint finishing and delivery system components, introduces a new 3-way ball valve. The silicone-free valve, with a 316 stainless steel body and incorporating Teflon ball seats, allows each of the three ports to be connected to either inlet or outlet lines. [>>MORE](#)

#### Company Profile

We are a manufacturer and global marketer of smooth bore, "cavity-free" stainless steel fittings and accessories designed specifically for the use in manual or automated paint circulating and application finishing systems. [>>MORE](#)

#### Product Focus

**NEW PAINT LINE RESTRICTORS FINE TUNE APPLICATION**

The two restrictors include the RIL-6-AJ designed for use with HOSCO's patented Monoline coaxial circulating paint hose or in a dead end application, while the new RY-6-AJ model is ?Y? configured for connection to conventional two-hose circulating systems. The restrictors are made of stainless steel, are lightweight, compact. [>>MORE](#)