# Cutting Edge / antage

INSIDE THIS ISSUE: ALPHA GRAINGER MANUFACTURING A Look Inside One of the Northeast's Top Job Shops (See pg. 2)

# JAKE GRAINGER

Embracing the Mindset of a 'Chief Technology Officer' (See pg. 12)

**GREAT PROMOTIONAL BUYS INSIDE!** 

### INTRODUCTION

Thanks for checking out our first issue of Cutting EdgeVantage." Every quarter, we'll be highlighting the work—and the products used to do that work of some of the best companies within the machining and manufacturing worlds.

# This issue features an inside look at Alpha Grainger Manufacturing.

From its headquarters in Franklin Mass., Alpha Grainger has spent the last 45 years helping customers solve the most complex machining challenges that come along with producing world-class products. Founded by brothers Jake and Gary Grainger in 1973, the operation has withstood the test of time due to an unwavering commitment to innovation and leveraging of emerging technologies. From cutting-edge machinery to its production accessories, Jake and Gary believe that quality must go in if quality is to come out.

Flip through the rest of this issue for an inside look at the products, and some of the people who help Alpha Grainger churn out more than 150 million parts each year for shipment all over the globe.

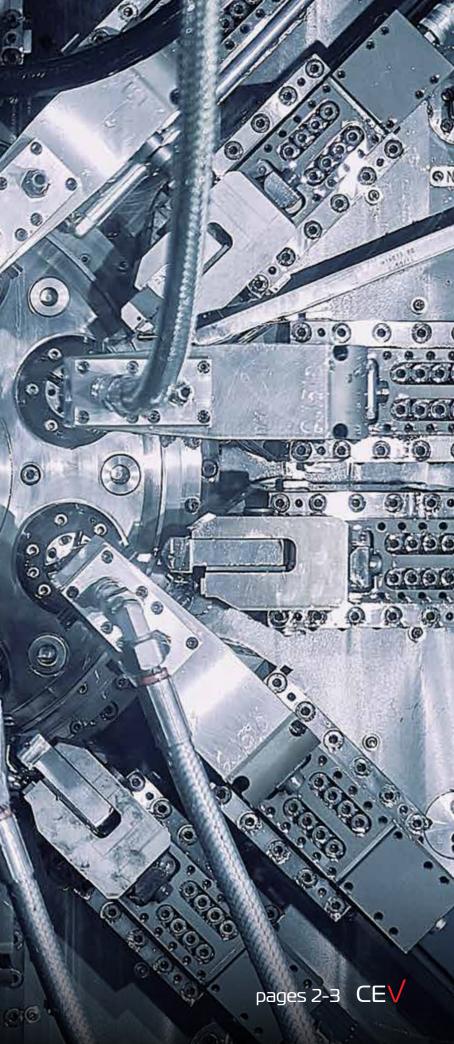
### Browse the categories below for info and special offers:

- 4-5 CUTTING TOOLS 14-15 FLUIDS
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### HIGH QUALITY CUTTING TOOLS

Spend more time optimizing part design and less time worrying about the tools you need to get the job done.

Alpha Grainger trusts M.A. Ford to provide tools that optimize material removal rate and reduce production times on its most complex parts.

BUY B MICRO TOOLS GET MICRO TOOL FREE

Up to 33% savings See page 21 for details.

For almost 100 years, M.A. Ford has set the standard for precision tooling in aerospace, firearms, medical, automotive, and power generation.



### Take advantage of a rare offer from M.A. Ford® to get a free micro tool when you purchase three.

# FEATURED OFFER



# FEATURED OFFER

When you get a Ball Lock® product, you know it's going to increase your day-to-day production.

Take advantage of this offer from Jergens, today and save.



# BUY ONE SUBPLATE, GET 4 SHANKS FREE

Up to a \$350 value See page 23 for details.



### HIGH QUALITY WORKHOLDING

Has your workholding technology kept up with the evolution of the rest of the technology on your shop floor?

If not, you could be sacrificing efficiency and ultimately, profits.



#### FINEST QUALITY INSERTS

If you're not optimizing your parting-off and grooving applications with the latest technology, featuring through coolant capability, you're missing the boat on a key area of optimization.

The higher quality precision inserts from ARNO USA can provide a greater level of reliability, stability and performance in the overall quality of your machined parts.

#### MAXIMIZE PRODUCTIVITY TODAY

Receive a recommendation on which ARNO products are best for your application.

Contact your distributor sales representative for details.



DO UDBAS

Available with & without ACS through coolant system: - Monoblocks – Modular Holders - Blade Flange Mounted System





# FEATURED OFFER

# Parting-off & Grooving Systems

# **30% DISCOUNT** on all SA steel holders.

See page 22 for details.

# FEATURED OFEER

SINSILE

Give INSIZE a try Across-the-board savings make it an easy switch!

# **SAVE UP TO 33%**

on all qualifying INSIZE measuring tools

See page 22 for details.



#### **PRECISION MEASUREMENTS**

Measuring tools need to perform no questions asked. If you're not using Insize, switch to a brand you'll never second guess.

> Known for Quality, Innovation, Service, Value ...at a fraction of the cost!



pages 10–11 CEV

From its founding in 1973, Jake Grainger has run the show at Alpha Grainger. Now more than ever, he embraces his role as Chief Technology Officer as the business and the industry continue to evolve.

Every year, Alpha Grainger Manufacturing invests millions of dollars in new technology. New machines, new capabilities, new processes and the training for its employees to capitalize on these investments. For Jake

Grainger, it all boils down to the pursuit of speed. He craves efficiency and he's extremely proud of the technological legacy the company has built over the last 45 years. "I look at where the industry has come since we started here in 1973 and it's amazing what

we're now able to machine here at our facility. Technology has helped us compete and I firmly believe it's what will keep us competitive for years to come," Grainger explains. "Complex parts are what customers need help with and we've always fought to stay at the forefront of producing them. It's what customers know us for and it's why we're still a valuable partner for them today."

His employees have noticed, too. "It's been so great to come to the Alpha Grainger environment, where they make the investment in all the

technology you could ever need to produce parts for all the most competitive companies," says Mike Esposito, who's been with the company for a few years. "Every department is empowered by



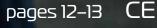
T-SHIRT GIVEAWAY See back cover for details

management to utilize the latest machining related technology from plunge and wire EDM, to metrology and in-house tool manufacturing. Everyone on the floor is unified behind minimizing cycle times. It's awesome. Anything

we need, Jake is always willing to listen. The whole organization does."

At 70 years old, Jake Grainger shows no signs of slowing down. "We put 2,300 solar panels on our roof to help pay for our power output. We've invested in government-grade data security. And, we have continued to invest in training our people to understand how everything works together. Business moves faster every day, and we couldn't be more excited about everything we're doing to stay ahead of the curve!"







Pound for pound your facility may use as much coolant as any other product you buy.

Do you need to reconsider your coolant provider to ensure you're getting the most performance for your dollar?

# FEATURED OFFER

Trust Rustlick to deliver the performance you need—and get a free drum mixer while you're at it.





BUY 11 CANS GET 1 CAN FREE See page 23 for details.





## **FREE DRUM MIXER** when you buy a 55 gallon drum of RUSTLIK

Up to a \$159 value

See page 23 for details.



BUY 1 APPLICATOR GET 1 GALLON FREE See page 23 for details.



**TOP-OF-THE-LINE PRESETTER** 

# FEATURED OFFER

A top-of-the-line presetter is a relatively small investment that can pay huge dividends on your bottom line.



Ezset

# **1 FREE ADAPTER**

with the purchase of an EZSET presetter.

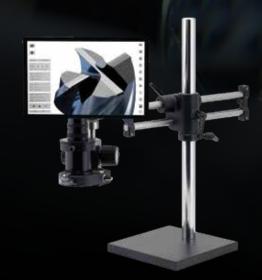
Up to a \$1,200 value See page 22 for details.



# FEATURED OFFER

### Look to O.C. White for top performing innovations in magnification.

Quality control has never been more important, and magnification and lighting play a huge part in being able to do QC right.



**FREE 2X LENS** with purchase of a SUPER-SCOPE® product

> A \$349 value See page 22 for details.





pages 16–17 CE



### HIGH QUALITY FLUIDS

14.01

CEV pages 18−19

### FEATURED OFFER

ICC & Zurnoil manufacture the metalworking chemistry you need to keep your operations leaner, faster, more efficient and more profitable!

- Drawing & Stamping Lubricants
- Machine & Grinding Coolants
- Spray & Immersion Cleaners
- Rust & Corrosion Preventatives
- Machine Maintenance Lubricants
- Custom Formulations

# FREE **EVALUATION & SAMPLES**

Schedule an on-site operational evaluation today.

> Contact your distributor sales representative for details.



The Kennedy







## Bilz ThermoGrip<sup>®</sup> shrink-fit system saves time,

preserves tool live and ensures the highest levels of precision in tight-tolerance applications.

# **10 FREE HOLDERS**

With the purchase of a 3410WK Shrink Fit Machine.

A \$2,500 Value See page 22 for details.



BILZ

		OFFER- BU	Y 3 GET 1 FREE, ALL SAME SIZE		
PRODUCT NO.	DESCRIPTION	PRODUCT NO.		PRODUCT NO.	DESCRIPTION
_					
MXDSRM0050A	0.50mm x 4mm Altima Drill	11606250R.005	16197 1/16 R.005 3 FI Endmill	16906250R.005A	16974 1/16 R.005 Altin Endmill
MXDSRM0055A	0.55mm x 4mm Altima Drill	11606250R.005A	16204 1/16 R.005 Altin Endmill	16906250R.005F	16997 1/16 R.005 Fordlube Mill
MXDSRM0060A	0.60mm x 5mm Altima Drill	11606250R.005F	16210 1/16 R.005 Fordlube Mill	16906250R.010	16910 1/16 R.010 3 Fl Endmill
MXDSRM0065A	0.65mm x 5mm Altima Drill	11606250R.010	16102 1/16 R.010 3 FI Endmill	16906250R.010A	16942 1/16 R.010 Altin Endmill
MXDSRM0070A	0.70mm x 5mm Altima Drill	11606250R.010A	16150 1/16 R.010 Altin Endmill	16906250R.010F	16998 1/16 R.010 Fordlube Mill
MXDSRM0075A	0.75mm x 6mm Altima Drill	11606250R.010F	16212 1/16 R.010 Fordlube Mill	16906250R.015	16912 1/16 R.015 3 FI Endmill
MXDSRM0080A	0.80mm x 6mm Altima Drill	11606250R.015	16104 1/16 R.015 3 Fl Endmill	16906250R.015A	16944 1/16 R.015 Altin Endmill
MXDSRM0085A	0.85mm x 7mm Altima Drill	11606250R.015A	16128 1/16 R.015 Altin Endmill	16906250R.015F	16999 1/16 R.015 Fordlube Mill
MXDSRM0090A	0.90mm x 7mm Altima Drill	11606250R.015F	16214 1/16 R.015 Fordlube Mill	16906250R.020	16914 1/16 R.020 3 FI Endmill
MXDSRM0095A	0.95mm x 7mm Altima Drill	11606250R.020	16106 1/16 R.020 3 FI Endmill	16906250R.020A	16946 1/16 R.020 Altin Endmill
MXDSRM0100A	1.00mm x 8mm Altima Drill	11606250R.020A	16130 1/16 R.020 Altin Endmill	16906250R.020F	17000 1/16 R.020 Fordlube Mill
MXDSRM0105A	1.05mm x 8mm Altima Drill	11606250R.020F	16216 1/16 R.020 Fordlube Mill	16907810R.005	16968 5/64 R.005 3 FI Endmill
MXDSRM0110A	1.10mm x 8mm Altima Drill	11607810R.005	16198 5/64 R.005 3 FI Endmill	16907810R.005A	16976 5/64 R.005 Altin Endmill
MXDSRM0115A	1.15mm x 9mm Altima Drill	11607810R.005A	16206 5/64 R.005 Altin Endmill	16907810R.005F	17001 5/64 R.005 Fordlube Mill
MXDSRM0120A	1.20mm x 9mm Altima Drill	11607810R.005F	16218 1/16 R.005 Fordlube Mill	16907810R.010	16916 5/64 R.010 3 FI Endmill
MXDSRM0125A	1.25mm x 9mm Altima Drill	11607810R.010	16108 5/64 R.010 3 FI Endmill	16907810R.010A	16948 5/64 R.010 Altin Endmill
MXDSRM0130A	1.30mm x 10mm Altima Drill	11607810R.010A	16132 5/64 R.010 Altin Endmill	16907810R.010F	17002 5/64 R.010 Fordlube Mill
MXDSRM0135A	1.35mm x 10mm Altima Drill	11607810R.010F	16220 1/16 R.010 Fordlube Mill	16907810R.015	16918 5/64 R.015 3 FI Endmill
MXDSRM0140A	1.40mm x 10mm Altima Drill	11607810R.015	16110 5/64 R.015 3 FI Endmill	16907810R.015A	16950 5/64 R.015 Altin Endmill
MXDSRM0145A	1.45mm x 11mm Altima Drill	11607810R.015A	16134 5/64 R.015 Altin Endmill	16907810R.015F	17003 5/64 R.015 Fordlube Mill
MXDSRM0150A	1.50mm x 11mm Altima Drill	11607810R.015F	16222 1/16 R.015 Fordlube Mill	16907810R.020	16920 5/64 R.020 3 FI Endmill
MXDSRM0155A	1.55mm x 12mm Altima Drill	11607810R.020	16112 5/64 R.020 3 FI Endmill	16907810R.020A	16952 5/64 R.020 Altin Endmill
MXDSRM0160A	1.60mm x 12mm Altima Drill	11607810R.020A	16136 5/64 R.020 Altin Endmill	16907810R.020F	17004 5/64 R.020 Fordlube Mill
MXDSRM0165A	1.65mm x 12mm Altima Drill	11607810R.020F	16224 1/16 R.020 Fordlube Mill	16909370R.005	16970 3/32 R.005 3 FI Endmill
MXDSRM0170A	1.70mm x 13mm Altima Drill	11609370R.005	16199 3/32 R.005 3 Fl Endmill	16909370R.005A	16995 3/32 R.005 Altin Endmill
MXDSRM0175A	1.75mm x 13mm Altima Drill	11609370R.005A	16208 3/32 R.005 Altin Endmill	16909370R.005F	17005 3/32 R.005 Fordlube Mill
MXDSRM0175A	1.80mm x 13mm Altima Drill	11609370R.005F	16227 3/32 R.005 Fordlube Mill	16909370R.010	16922 3/32 R.010 3 FI Endmill
MXDSRM0185A	1.85mm x 14mm Altima Drill	11609370R.010	16114 3/32 R.010 3 Fl Endmill	16909370R.010A	16954 3/32 R.010 Altin Endmill
MXDSRM0190A		11609370R.010A		16909370R.010F	
	1.90mm x 14mm Altima Drill		16138 3/32 R.010 Altin Endmill		17006 3/32 R.010 Fordlube Mill
MXDSRM0195A	1.95mm x 14mm Altima Drill	11609370R.010F	16228 3/32 R.010 Fordlube Mill	16909370R.015	16924 3/32 R.015 3 FI Endmill
MXDSRM0200A	2.00mm x 15mm Altima Drill	11609370R.015	16116 3/32 R.015 3 FI Endmill	16909370R.015A	16956 3/32 R.015 Altin Endmill
MXDSRM0205A	2.05mm x 15mm Altima Drill	11609370R.015A	16140 3/32 R.015 Altin Endmill	16909370R.015F	17007 3/32 R.015 Fordlube Mill
MXDSRM0210A	2.10mm x 15mm Altima Drill	11609370R.015F	16230 3/32 R.015 Fordlube Mill	16909370R.020	16928 3/32 R.020 3 FI Endmill
MXDSRM0215A	2.15mm x 16mm Altima Drill	11609370R.020	16118 3/32 R.020 3 FI Endmill	16909370R.020A	16958 3/32 R.020 Altin Endmill
MXDSRM0220A	2.20mm x 16mm Altima Drill	11609370R.020A	16142 3/32 R.020 Altin Endmill	16909370R.020F	17008 3/32 R.020 Fordlube Mill
MXDSRM0225A	2.25mm x 17mm Altima Drill	11609370R.020F	16232 3/32 R.020 Fordlube Mill	16912500R.005	16972 1/8 R.005 3 FI Endmill
MXDSRM0230A	2.30mm x 17mm Altima Drill	11612500R.005	16202 1/8 R.005 3 FI Endmill	16912500R.005A	16996 1/8 R.005 Altin Endmill
MXDSRM0235A	2.35mm x 17mm Altima Drill	11612500R.005A	16242 1/8 R.005 Altin Endmill	16912500R.005F	17009 1/8 R.005 Fordlube Mill
MXDSRM0240A	2.40mm x 18mm Altima Drill	11612500R.005F	16234 1/8 R.005 Fordlube Mill	16912500R.010	16932 1/8 R.010 3 FI Endmill
MXDSRM0245A	2.45mm x 18mm Altima Drill	11612500R.010	16120 1/8 R.010 3 FI Endmill	16912500R.010A	16960 1/8 R.010 Altin Endmill
MXDSRM0250A	2.50mm x 18mm Altima Drill	11612500R.010A	16144 1/8 R.010 Altin Endmill	16912500R.010F	17010 1/8 R.010 Fordlube Mill
MXDSRM0255A	2.55mm x 19mm Altima Drill	11612500R.010F	16238 1/8 R.010 Fordlube Mill	16912500R.015	16934 1/8 R.015 3 FI Endmill
MXDSRM0260A	2.60mm x 19mm Altima Drill	11612500R.015	16122 1/8 R.015 3 FI Endmill	16912500R.015A	16962 1/8 R.015 Altin Endmill
MXDSRM0265A	2.65mm x 19mm Altima Drill	11612500R.015A	16146 1/8 R.015 Altin Endmill	16912500R.015F	17011 1/8 R.015 Fordlube Mill
MXDSRM0270A	2.70mm x 20mm Altima Drill	11612500R.015F	16239 1/8 R.015 Fordlube Mill	16912500R.020	16938 1/8 R.020 3 FI Endmill
MXDSRM0275A	2.75mm x 20mm Altima Drill	11612500R.020	16124 1/8 R.020 3 FI Endmill	16912500R.020A	16964 1/8 R.020 Altin Endmill
MXDSRM0280A	2.80mm x 20mm Altima Drill	11612500R.020A	16148 1/8 R.020 Altin Endmill	16912500R.020F	17012 1/8 R.020 Fordlube Mill
MXDSRM0285A	2.85mm x 21mm Altima Drill	11612500R.020F	16240 1/8 R.020 Fordlube Mill		
MXDSRM0295A	2.95mm x 22mm Altima Drill	16906250R.005	16966 1/16 R.005 3 FI Endmill		

# Cutting Edgevantage Featured Offers Offers Valid Through June 30th, 2018

Contact your local distributors sales representative to order

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# Cutting Edge (antage" **Featured Offers**

PRODUCT NO.	DESCRIPTION	SALE	
TKSS	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); No light	\$3,096.00	
TKSS-A	Super-Scope <sup>®</sup> HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options);	\$3,795.00	
TKSS-BL	Super-Scope® HD Integrated Inspection; Standard magnification range of 1-40X (up to 80X w/ options); 150w Fiberoptic Back Light (Micro-Lite® FL3000-BL)	\$3,995.00	
TKSS-D	Super-Scope® HD Integrated Inspection; Standard magnification range of 1-40X (up to 80X w/ options); 150w Fiberoptic Dual Point Light (Micro-Lite® FL3000-D)	\$3,795.00	
TKSS-F	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); FL1000 with High-Output Fluorescent Bulb	\$3,295.00	
TKSS-FA	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; No light	\$3,096.00	
TKSS-FA-A	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; 150w Fiberoptic Annular Light (Micro-Lite® FL3000-A)	\$3,795.00	
TKSS-FA-BL	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; 150w Fiberoptic Back Light (Micro-Lite® FL3000-BL)	\$3,995.00	
TKSS-FA-D	Super-Scope® HD Integrated Inspection; Standard magnification range of 1-40X (up to 80X w/ options); Ar- ticulating Arm Assembly; 150w Fiberoptic Dual Point Light (Micro-Lite® FL3000-D)	\$3,745.00	
TKSS-FA-F	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; FL1000 with High-Output Fluorescent Bulb	\$3,295.00	
TKSS-FA-LV2	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; Micro-Lite® LV2000-B LED Ring Light	\$3,445.00	
TKSS-LV2	Super-Scope® HD Integrated Inspection; Standard magni- fication range of 1-40X (up to 80X w/ options); Articulating Arm Assembly; Micro-Lite® LV2000-B LED Ring Light	\$3,445.00	

	290
<b>OFFER:</b> 30% DISCOUNT ON ALL SA STEEL HOLDERS	290
Contact your distributors sales representative for details	440
	440
	530
OFFER: BUY AN EZSET PRESETTER RECEIVE A CAT 40 OR HSK 63 ADAPTER FOR FREE! UP TO \$1,200 VALUE	580
Contact your distributors sales representative with questions, pricing and order placement	_

<b>OFFER:</b> FREE EVALUATION & SAMPLES	
SCHEDULE AN ON-SITE OPERATIONAL EVALUATION TODAY Contact your distributors sales representative for details	

	+INSIZE+		
	OFFER: SAVE UP TO 33%		
PRODUCT NO.	DESCRIPTION	SALE PRICE	SAVINGS
1108-150 Plus 2307-1	Elec. Caliper, 0-6"/0-150Mm (With 1" Dial Indicator 2307-1)	\$63.25	27%
1108-200 Plus 2307-1	Elec. Caliper, 0-8"/0-200Mm (With 1" Dial Indicator 2307-1)	\$82.25	27%
1108-300 Plus 2307-1	Elec. Caliper, 0-12"/0-300Mm (With 1" Dial Indicator 2307-1)	\$112.00	27%
1311-6 Plus 2307-1	Dial Caliper, 0-6", Graduation .001" (With 1" Dial Indicator 2307-1)	\$25.75	27%
1311-8 Plus 2307-1	Dial Caliper, 0-8", Graduation .001" (With 1" Dial Indicator 2307-1)	\$75.75	27%
1311-12 Plus 2307-1	Dial Caliper, 0-12", Graduation .001" (With 1" Dial Indicator 2307-1)	\$115.00	27%
1118-150B Plus 3203-1A	Elec. Waterproof Caliper, 0-6"/0-150Mm (With Outside Micrometer 3203-1A)	\$145.00	27%
1118-200B Plus 3203-1A	Elec. Waterproof Caliper, 0-8"/0-200Mm (With Outside Micrometer 3203-1A)	\$210.50	27%
1118-300B Plus 3203-1A	Elec. Waterproof Caliper, 0-12"/0-300Mm (With Outside Micrometer 3203-1A)	\$250.00	26%
6201-60 Plus 3203-1A	Magnetic Stand (With Outside Micrometer 3203-1A)	\$45.00	26%
ISM-PM200SB Plus 3203-1A	Digital Measuring Microscope (With Outside Micrometer 3203-1A)	\$323.00	27%
3203-2A Plus 3203-1A	Outside Micrometer, 1-2", Graduation .0001" (With Feeler Gage 4608-31)	\$35.50	27%
3203-33A Plus 4608-31	Outside Micrometer, 0-3", Graduation .0001" (With Feeler Gage 4608-31)	\$75.75	33%
3203-66A Plus 4608-31	Outside Micrometer, 0-6", Graduation .0001" (With Feeler Gage 4608-31)	\$195.00	29%
3203-1212A Plus 4608-31	Outside Micrometer, 0-12", Graduation .0001" (With Feeler Gage 4608-31)	\$545.00	28%

#### KENNEDY

	I CENTRED I.				
CALL FOR CUSTOMIZATION, ADDITIONAL COLORS, CONFIGURATIONS AND SIZES					
PRODUCT NO.	DESCRIPTION	SALE PRICE			
2905MP	29″ Maintenance Pro™ 5-Drawer Top Chest	\$938.25			
2907MP	29″ Maintenance Pro™7-Drawer Cabinet	\$1,248.75			
4405MP	44″ Maintenance Pro <sup>™</sup> 5 Drawer Top Chest	\$1,206.00			
4400MP	44″ Maintenance Pro™ 10 Drawer Cabinet	\$2,445.50			
5300MP	53″ Maintenance Pro™ 12 Drawer Cabinet	\$2,211.00			
5302MP	53″ Maintenance Pro™ 8 Drawer Top Chest	\$1,474.00			
5804MP	58" Maintenance Pro 12 Drawer Cabinet	\$2,747.00			

BILZ							
OFFER: PURCHASE A ISG 3410-WK SHRINK FIT MACHINE RECEIVE 10 FREE CAT40 OR HSK-63A STANDARD SHRINK FIT HOLDERS FREE. \$2,500 VALUE							
PRODUCT NO.	DESCRIPTION	SALE PRICE					
ISG3410-WK	Water Cooled Shrink Fit Machine	\$22,500.00					

MOST POPULAR	MOST POPULAR BALL LOCK SUBPLATES (OTHER SIZES AVAILABLE UPON REQUESt)							
	STEEL PLATE	BALL LOCK						
PRODUCT NO.	DESCRIPTION	SALE PRICE	PRODUCT NO.	SHANK SIZE (Mm)	SALE PRICE	PROMO VALUE		
49101	Sub-plate, 16 x 16 x 1.125	\$840.48	49601	20	\$81.37	\$325.48		
49102	Sub-plate, 14 x 14 x 1.125	\$919.79	49601	20	\$81.37	\$325.48		
49103	Sub-plate, 17 x 17 x 1.25	\$1,236.00	49612	25	\$86.84	\$347.36		
49111	Sub-plate, 25 x 16 x 1.125	\$2,153.73	49601	20	\$81.37	\$325.48		
49112	Sub-plate, 40 x 20 x 1.25	\$3,782.16	49601/49612	20/25	\$86.84	\$336.00		
49121	Sub plate, 15 x 10 x 0.75	\$650.96	49608	16	\$87.68	\$350.72		
49160	HAAS sub, 16 x 12 x 1.125	\$818.85	49601	20	\$81.37	\$325.48		
49165	HAAS sub, 36 x 14 x 1.125	\$2,328.83	49601	20	\$81.37	\$325.48		
49168	HAAS sub, 36 x 16 x 1.125	\$2,661.52	49601	20	\$81.37	\$325.48		
49185	HAAS sub, 52 x 20 x 1.25	\$3,819.24	49601/49612	20/25	\$86.84	\$336.00		

#### MOST POPULAR BALL LOCK FIXTURE PLATES (OTHER SIZES AVAILABLE UPON REQUEST

ALUMINUM				STEEL	BALL LOCK				
PRODUCT NO.	DESCRIPTION	SALE PRICE	PRODUCT NO.	DESCRIPTION	SALE PRICE	PRODUCT NO.	SHANK SIZE (Mm)	SALE PRICE	PROMO VALUE
28711	Fixture plate, al, 12 x 14 x 0.75	\$214.24	28811	Fixture plate, st, 12 x 14 x 0.75	\$214.24	49601	20	\$81.37	\$325.48
28713	Fixture plate, al, 14 x 14 x 0.75	\$288.40	28813	Fixture plate, st, 14 x 14 x 0.75	\$451.14	49601	20	\$81.37	\$325.48
28715	Fixture plate, al, 16 x 16 x 0.75	\$349.17	28815	Fixture plate, st, 16 x 16 x 0.75	\$497.49	49601	20	\$81.37	\$325.48
28717	Fixture plate, al, 16 x 16 x 0.75	\$333.72	28817	Fixture plate, st, 16 x 16 x 0.75	\$497.49	49601	20	\$81.37	\$325.48
28719	Fixture plate, al 20 x 16 x 0.75	\$373.89	28819	Fixture plate, st, 20 x 16 x 0.75	\$507.79	49601	20	\$81.37	\$325.48
28722	Fixture plate, al, 12 x 14 x 1	\$225.57	28822	Fixture plate, st, 12 x 14 x 1	\$461.44	49612	25	\$86.84	\$347.36
28724	Fixture plate, al, 14 x 14 x 1	\$299.73	28824	Fixture plate, st, 14 x 14 x 1	\$485.13	49612	25	\$86.84	\$347.36
28726	Fixture plate, al, 16 x 16 x 1	\$370.80	28826	Fixture plate, st, 16 x 16 x 1	\$535.60	49612	25	\$86.84	\$347.36
28727	Fixture plate, al, 20 x 20 x 1	\$565.47	28827	Fixture plate, st, 20 x 20 x 1	\$683.92	49612	25	\$86.84	\$347.36
28731	Fixture plate, al, 10 x 15 x 0.75	\$263.68	28831	Fixture plate, st, 15 x 10 x 0.75	\$456.29	49608	16	\$87.68	\$350.72
28732	Fixture plate, al, 25 x 25 x 1	\$849.75	28832	Fixture plate, st, 25 x 25 x 1	\$1,016.00	49632	35	\$108.16	\$432.64

BRAND	DESCRIPTION	SIZE/COUNT/ COLOR	COUNT	SALE PRICE (CASE)	OFFER
Scrubs in a Bucket	Hand Cleaner Towels	72 count	6 per case	\$79.82	Buy 5 get 1 free
LPS 1	Greasekess Lubricant 11 oz. Aerosol	16 oz aerosol	12 per case	\$121.82	Buy 11 get 1 free
LPS 2	Heavy-Duty Lubricant 11 oz. Aerosol	17 oz aerosol	12 per case	\$106.37	Buy 11 get 1 free
LPS 3	Premier Rust Inhibitor	18 oz aerosol	12 per case	\$162.24	Buy 11 get 1 free
Acculube	Applicator Junior Portable 10 oz Tank	applicator part		\$696.55	Buy 1 Applicator Junior, receive 1 gallon LB2000 free
RUSTLICK	RUSTLICK WS050 Water Soluble Oils	55 gallon		\$1,714.99	Buy a Rustlick WS5050, receive a free drum mixer
RUSTLICK	RUSTLICK Synthetic Grinding Coolants G-25-J	55 gallon	16.15312.55	\$938.24	Buy a Rustlick G25J, receive a free drum mixer
RUSTLICK	RUSTLICK Ultracut 380R	55 gallon		\$1,684.27	Buy a Rustlick Ultracut380R 55 gallon drum, receive a free drum mixe
Brite Mark	916 Medium Tip Marker	black	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	white	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	white	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	yellow	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	orange	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	red	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	green	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	light blue	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	pink	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	brown	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	violet	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	silver	12 per case	\$34.72	Buy 6 cases get 1 free
Brite Mark	916 Medium Tip Marker	gold	12 per case	\$34.72	Buy 6 cases get 1 free

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