



Where **high performance**
is the **standard**[®]

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Company Overview

For 100 years, M.A. Ford[®] has been at the cutting edge of tooling design and manufacturing and has developed an enviable global reputation for performance and precision in advanced solid carbide tooling, serving over 60 countries world wide. Our innovative cutting geometries, materials and coating technologies are providing effective manufacturing solutions to an expanding and increasingly diverse range of industries.

Target Industries:

- Aerospace
- Medical
- Firearms
- Automotive
- Heavy Machinery
- Energy
- Electronics
- Agriculture

Key Product Lines

- High Performance Solid Carbide End Mills
- High Performance Solid Carbide Drills
- Solid Carbide Reamers
- Solid Carbide Diamond Grind Routers
- Solid Carbide Custom Tools
- Solid Carbide and HSS Countersinks
- Solid Carbide General Purpose End Mills
- Solid Carbide General Purpose Drills
- Solid Carbide Burs
- Solid Carbide Micro Tools
- Re-Conditioning and Re-Coating

Custom Tool Division

M.A. Ford's Custom Tool Division offers application development, design and manufacturing expertise in the following product classifications in either solid or coolant thru configurations:

- High Performance Drills and Step Drills
- Rockbit Drills (Flat Bottom - 150°)
- G-Drills and Step G-Drills
- Step Reamers
- Reamers
- Coolant Thru Specials
- Firearms Reamers (Chamber-Barrel-Muzzle-Throat)
- Custom End Mills
- Custom Form Tools
- Re-conditioning and Re-Coating

M.A. Ford Rapid Turnaround Program*

Coating

ALtima[®] 3 days No maximum quantity
Blaze, TiN, TiCN 3 days No maximum quantity

Range Reamers

270 Series 3 days 25 piece maximum

Shank Flats

End mills 3 days 50 piece maximum

Corner Radius

End mills – 6mm & above 3 days 12 piece maximum

Depth Setting Rings 3 days No maximum quantity

Coolant Slots 3 days 10 piece maximum

Micro-Stop Integral Pilot 3 days 10 piece maximum

*When base tool in stock

Competitors

- Kyocera SGS
- Seco
- Imco
- Fullerton
- Mitsubishi
- Sumitomo
- Harvey Tool
- Widia

**ISO 9001:2015
Certified**



Returns: No returns will be accepted without a prior written Return Materials Authorization (RMA) from M. A. Ford. Please contact our Customer Service department for an authorization number and shipping instructions. Merchandise that has been approved for return must be returned on a pre-paid basis in original packaging.

Miscellaneous Return Restocking Charges:

Miscellaneous returns are subject to the following restocking fees:

- Purchased within 30 days, 5%
- 31-180 days, 10%
- 6 months – 1 year, 15%
- No miscellaneous returns for materials purchased beyond 1 year (Contact Customer Service for Stock Rotation Option), except series 239. For series 239, no returns are accepted for materials purchased beyond 90 days.

All Returns Are Subject To The Following Conditions:

- Returned items must be current M.A. Ford products per the current price schedule.
- Standard products that are scheduled to be removed from the catalog and/or slow moving items are subject to review and may not be eligible for return.
- Damaged product packaging, marked/defaced labels and/or packages are not eligible for return.
- Products that have been altered or coated by a third-party are not eligible for return.
- Returned products must be properly packaged for shipment with the RMA number indicated on the shipment and noted on the return goods documentation. Any carrier damage is the responsibility of the Distributor.

To Request A Sample Tool

The Test Tool Request Form is available at maford.com/page/forms. Follow the instructions on the bottom of the form to fax or email to M.A. Ford Customer Service. Once approved, the tool will ship same day if in stock.

M.A. Ford® Direct Field Sales Staff

Title	Name	City/State	Cell	E-mail
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Order Entry and Shipping Cutoff Times
 Orders received by 5:00pm CST in stock **shipped via UPS** same day
 For Fed Ex shipments:

- Cutoff time is 4:30pm CST for priority shipments
- Cutoff time 3:30pm CST for ground shipments

Test Tool Results Example

This test of the M.A. Ford series 277 was a big improvement for Company A as the current indexable tool would only produce 200 parts before chipping out. The M.A. Ford Tool ran 3,000 pcs between tool changes. The insert usage cost of \$23,400.00 must be added for the special Iscar tool body usage of 52 pcs. annually. **Total savings \$137,591.00.**



TOOL PERFORMANCE EVALUATOR



Select Machining Type		Solid Milling	Color On	Color Off	Test Date	03/24/17
Select Data Entry Units		Inch	Metric	Output Units	Inch	Metric
INITIAL DATA	Company			Test Objective	Tool Life	
	Contact			Part	1/4" Ratchet lever bore	
	Salesman			Material	1187 steel	
	Distributor			Hardness (HRC)	>250 BHN	
	Evaluator	RUSS MESSER		Surface Condition	Milled	
	Machine	Mazak Nexus 400011		Solid Mill Material Factor	1.28	
Machine #	E-2602		Mill type:	climb		
Rated Power (HP)	30		Interpolation			
Tool Number	22	Existing	Test 1	Test 2		
Tool Brand Name	Iscar		MA Ford 277375128			
Endmill Description	AOMT040204-900BT		3/8" X 7/8" X 2.5" .015			
	IC 908					
# EffectiveTeeth	2		4			
PARAMETERS	Tool Diameter (in)	0.375	0.375			
	RPM (at max RPM)	5240	5240			
	Speed (sfm)	514	514			
	Feed (ipr)	0.0035	0.0030			
	Feed (mm/min)	5.03	62.88			
	Width of Cut (in.)	0.020	0.020			
	Depth of Cut (in.)	0.3	0.3			
	Length of Cut (in.)	0.95	0.95			
	# of Passes	Per Part	1	1		
	Type of Chip Produced ?	Segmented	Tubular			
TOOL LIFE	Coolant	SYNTHETIC		SYNTHETIC	SYNTHETIC	
	Power @ Spindle (KW)	0.02	0.22			
	# of Parts Per Mill Chg.	66	3000			
	# of Parts Per Regrind	0	0			
	Mill Chg Time (Seconds)	1800	120			
	Linear Distance /Mill Chg (mm.)	2,100	7,647			
	Reason for Indexing	CHIPPING		NORMAL WEAR		
	Tool Life Increase			4445%		
	Annual Part Production	150,000				
	OUTPUT & PRODUCTIVITY	Cycle Time per part (sec)	21.00	0.90		
Cut Time per part (sec)		287.81	23.02			
Removal Rate (mm3 /min)		494.60	6182.51			
Productivity Increase				1150%		
Annual Machine Time Savings (hours)				11032.7		
Burden Rate (hour)		\$45.00	Not Required		Not Required	
Cutter Cost		\$12.00	\$31.16			
RegrindCost (For Grindable)		\$0.00	\$0.00			
Number of Regrinds Per Tool		0	0			
Tool Chng.Cost Per Tool Chng.		\$22.50	\$1.50			
COST EVALUATION <small>(rounded to the nearest cent)</small>	Tooling Cost Per Mill Change					
	Est. Annual Mill Usage	2250	50			
	Estimated Annual Mill Cost	\$27,000.00	\$1,558.00			
	See Line Headers: →	\$ Per Part	\$ Per Part	Savings (Yr)	\$ Per Part Savings (Yr)	
	Tooling Cost --	\$0.180	\$0.010	\$25,442		
	Tool Change Cost	\$0.341	\$0.001	\$51,061		
	Cutting Time Cost	\$3.598	\$0.288	\$496,472		
	Other Cycle Time Costs	-\$3.335	-\$0.277	(\$458,785)		
	Costing Summary	\$0.78	\$0.02	\$114,191		
	Assessments	Objective Attained?	Yes	No	Retest?	No

This test was a big improvement for end user as the current Indexable tool would only produce @ 200 parts before chipping out. The MA Ford Tool will run 3000 pcs between tool changes. The numbers on this Report are more accurate in calculating the overall savings with the actual annual production adjusted to the correct production of 1/4" Lever ratchets produced. The other reports were skewed on Part production as the number of inserts used annually with a 200 pc. production rate per tool change had to be considered. Due to the chipping and Failure of the Iscar tool this is a more accurate report with the burden Rate as the actual insert usage is 66 per tool change for this production. 23,400.00 must be added for the special Iscar tool body usage of 52 pcs. annually. Total savings 137,591.00

M.A. Ford Test Winners To Try:

239 Series Diamond Grd/Diamond Coated Router for Composites

278 Series 5 FL HP End Mill for Titanium, Inconel and similar materials

180 Series 7 FL HP End Mill for Titanium, Inconel, Nickel Alloys and similar materials

CDA Series HP Drill for Aluminum and similar materials

CXD Series HP Drill for Titanium and similar materials