PILOT Precision Products

Hassay Savage

MAX Out Your Rotary Broaching

2x Tool Life *Compared to a T-15*

37% *Decrease in Overall CPP (Cost Per Part)*

HassayMAX

NEW

Proprietary Alloy

Manufactured from custom hardened alloys, these hex, square and punch rotary broaches are a **specially formulated material** that combines high hardness with exceptional abrasion resistance and toughness.

They're ideal for sockets where long tool life is required and are intended for use on materials with tensile strengths exceeding 190 KSI and up to 50 Hrc, such as:

- Cobalt-Chrome
- Custom 455
- Biodur 108 & 22-13-15
- 17-4 Stainless Steel
- Strain Hardened 316
- Titanium
- Inconel 718
- Monel
- Hardened A286/304
- 303 Stainless Steel

Our rotary broaches offer many **advantages** over conventional coated & uncoated broaching tools, including:

- Edge Toughness for High Production Applications
- Better Heat Resistance
- 2x-10x Longer Tool Life

To learn more, see p.25 of our Catalog at catalog.pilotprecision.com

Ideal for Applications in These Industries

Fasteners | Automotive | Electronics | Medical/Dental | Aerospace | Defense

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Read more

Test Results Show MAX Series Hex Rotary Broach Offers Longer Tool Life & Lower Cost Per Part

Our MAX Series Hex Rotary Broach is 20% more than the current tool being used, but it machines **90% more parts for 38% less.**

The **MAX Series** Rotary Broach is a better value than the current tool and is ideal for work materials in these ISO classes:

- P (Steel)
- M (Stainless Steel)
- K (Cast Iron)
- N (Non-Ferrous Metal)
- S (Super-Alloys & Titanium)
- H (Hard Materials)

COMPARE TO A T-15 ROTARY BROACH

Test Information		
Pilot Precision Products being tested	**Hassay Rotary & Index Broach**	
Tool EDP or Description	**66012-M 3/16 MAX Series Hex Rotary**	
Material Group - Reference Chart below	300 series	
Current Tool vs. Proposed Tool	**Current Tool**	**Pilot Test Tool**
Pre-hole diameter	0.1929	0.1929
Depth of Cut / Width of Cut	0.1700	0.1700
Speed - SFM or RPM	1800	1800
Shop/Machine Hr. Rate	**$75.00**	
Parts per Month - or - Total parts on job	**18000**	
Months job will run (Enter 12 if longer than a Yr)	**12**	
Current Tool vs. Proposed Tool	**Current Tool**	**Pilot Test Tool**
Price per Tool	$62.25	$74.10
Parts Machined Per Tool	5000	9481
Calculated Cost per Part (CPP)	$0.0125	$0.0078
Cost Savings per Month		$83.42
Cost Savings per Year/Job total		$1001.02
Tool Change Time (minutes)	1.00	
Calculated tool change cost per Month	$4.50	$2.37
Lost Production hours per Month	0.06	0.03
Lost Production hours per Year/job	0.72	0.38
Cost Savings per Month		$2.13
Cost Savings per Year/Job total		$25.52
Cycle Time Reduction (if applicable)		
Tool Cycle Time / part (minutes)	0.06	0.06
Feedrate (IPM)	0.00	0.00
Additional machining hours avail. per Mo		0.00
Additional machining hours avail. per Yr/job		0.00
Cost Savings per Month		$0.00
Cost Savings per Year/Job total		$0.00
Overview		
Tool Cost per Piece (Savings per Year/job)	**$1,001.02**	