PILOT Precision Products

palbit TOOLING SOLUTIONS EXPERTS a PILOT Precision Brand

The Report Card is In:

TetraFeed Inserts Get an A+

40% More Tool Life

63% Cycle Time Reduction

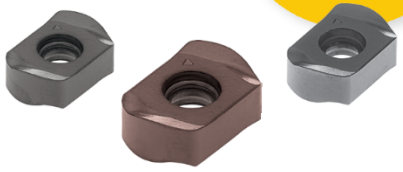
With **Palbit tooling**, we helped one of our customers machine 280 pieces per insert compared to the 200 pieces they were getting from using a competitor's tool. We also helped them more than double the feed rate and **improve cycle time by more than 60%**.

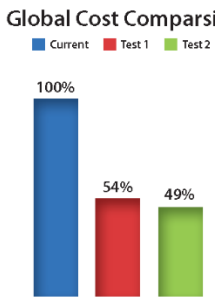
For a little less money, Palbit tooling has helped the customer operate a lot more efficiently. With the savings realized on the 500+ inserts the customer uses annually, management can help to boost morale by treating the production and office teams to a nice lunch or two.

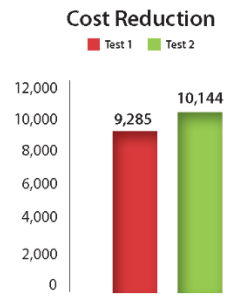
For an experienced partner that can move you to the head of the class while adding measurable value to your operations, **work with Pilot**.

UNIT PRICE OF COMPETITOR'S INSERT
$13.04

PRICE OF PILOT INSERT
$11.78







Ideal for Applications in These Industries

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

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Read more

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Visit www.pilotprecision.com for more information.

Milling Test Report

The proof is in the numbers. Palbit tooling significantly out-performed tooling manufactured by a competitor. This example is one of the many ways Pilot Precision Products can help you achieve superior precision, quality, consistency, and performance in all of your tooling operations.

	CURRENT	TEST 1	TEST 2
Manufacturer:	COMPETITOR	PALBIT	PALBIT
Ref. Insert:	XDPT090408 ERD41	XNKU 06T310-MP	XNKU 06T310-MP
Grade:	SC6525	PHP920	PHS740
Cost per Insert:	**$13.04**	**$11.78**	**$11.78**
Tool Change Time (TCT) [min]:	5	5	5
Number of Tooth (Z effective):	6.0	8.0	8.0
Number Of Edges per Insert:	4	4	4
Machine Cost/Hour:	$125.00	$125.00	$125.00
Number of parts/edge:	200	235	280
Number of Parts/Insert:	133.33	117.50	140.00
Effective time of cut /part (theoret.) [min]:	0.19	0.07	0.07
Machine Cost/Part:	$.39	$.15	$.15
Tool Change Time Cost/Part:	$.05	$.04	$.04
Insert Cost/Part:	$.10	$.10	$.08
Machining Cost/Part:	$.54	$.29	$.27
Number Of Parts/Year:	37,000	37,000	37,000
Machining Cost/Year:	**$20,034.15**	**$10,749.46**	**$9,889.72**
Annual Insert´s Usage:	**$277.50**	**$314.89**	**$264.29**
Workpiece Material Density [lb/in^3]:	0.2940	0.2940	0.2940
Tool life/edge (measured) [min]:	37.0	19.6	19.6
Tool life/Insert [min]:	24.7	9.8	9.8
Material Removed Between Tool Changes [lb]:	24.31	34.5	34.5
Metal Removal Rate [lb/hour]:	14.99	11.29	11.29
Machine Cost/lb:	$3.17	$1.18	$1.18
Tool Change Cost/lb:	$.43	$.30	$.30
Insert Cost/lb:	$.80	$68	$.68
Machining Cost/lb:	$4.40	$2.17	$2.17
Machining Cost/ton:	$8,808.89	$4,330.78	$4,330.78
Insert's Usage/ton:	123.42	115.78	115.78
Cost/Year | Cost/ton:	**$20,034.15**	**$10,749.46**	**$9,889.72**
Savings:	**N/A**	**$9,284.69**	**$10,144.43**

Comments:

To cost calculation we are considering the following conditions

- Machine Cost Per Hour = $125
- Tool Change Time (TCT) = 5 min.
- Number of Parts Per Year = 37,000
- Workpiece Material Density (Steel) = 0,2529 [lb/in^3]

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