

Part count:

Cycle Time:

Surface Finish:

Spindle Load:

Failure Mode:

Criteria for end

of tool life:

7

9m 5s

63

Flank wear

Normal insert wear

25

4m 17s

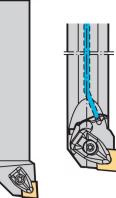
63

Flank wear

Normal insert wear

Tool Performance Report

Turning



0m 0s

0m 0s

Machine Customer Company: Machine Okuma **Description:** Contact: **QTS Employee:** Medium Poor **Condition:** Good 🗸 Date: **Material** Workpiece Description: Pressure plate **~** Drawing #: Type: Aluminum **Stainless** Hi Temp Steel Non-Ferrous Alloy Steel Medium **Rigidity:** Poor Good **Operation: Material No.:** A36 Rough **Finish** Diameter ~ **Dimensions:** Length **Condition: Heavy Scale** Flame Cut Casting Clean **Comments:** 20 Rockwell C **Hardness: Tool Data** Test 3 Current Test 1 Test 2 Test 4 Test 5 Manufacturer: Walter Tungaloy **Holder P/N: MWLNR 16-4 MWLNR 16-4 Insert P/N:** WNMG432-TM WNMG432 MR **Insert Grade:** T9125 KCP25B **Index Time:** 5m 5m 0m 0m 0m 0m **Lead Angle:** 95 95 **Machining Data** Current Test 1 Test 2 Test 3 Test 4 Test 5 Speed (SFM): 500 800 **Work Dia:** 6 6 RPM: 318 509 **IPR:** 0.01 0.008 IPM: 3.18 4.07 **Cutting Depth:** 0.02 0.04 **Cutting Length:** 2 2 MRR cu in/min: 0.0 1.2 3.1 0.0 0.0 0.0 **Machining Results Current** Test 2 Test 3 Test 5 Test 1 Test 4

Comments

0m 0s

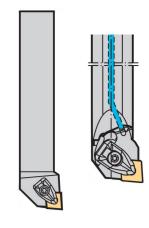
0m 0s

Successful test! We were able to decrease cycle time by 53% & increased tool life by 350%. If the Kennametal inserts that were tested had been used on the complete job we would have have over 70hrs of machine time.



Tool Performance Report

Turning



Tool Costing

	Current	Test 1	Test 2	Test 3	Test 4	Test 5
Manufacturer:	Tungaloy	Walter				
Holder P/N:	MWLNR 16-4	MWLNR 16-4				
Holder Price:	\$0.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00
Parts Per Holder:	100000	100000				
Insert P/N:	WNMG432-TM	WNMG432 MR				
Insert Grade:	T9125	KCP25B				
Insert Price Ea:	\$0.00	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00
Cutting Edges Per Insert:	6	6				
Parts Per Index:	7	25	0	0	0	0
Annual Part Production:	800	800				
Tooling Cost Per Part:	\$0.00	\$0.06				
Tooling Cost Annually:	\$0.00	\$48.48				

Machining Cost

	Current	Test 1	Test 2	Test 3	Test 4	Test 5
Machine Description:	Okuma	Okuma	Okuma	Okuma	Okuma	Okuma
Hourly Rate:	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00
Cycle Time:	9m 5s	4m 17s	0m 0s	0m 0s	0m 0s	0m 0s
Index Time:	5m	5m	0m	0m	0m	0m
Machining Cost Per Part:	\$16.33	\$7.47				
Machining Cost Annually:	\$13063.49	\$5977.78				

Total Machine Time

	Current	Test 1	Test 2	Test 3	Test 4	Test 5
Total Time Per Part:	9m 48s	4m 29s				
Total Annual Time:	130h 38m	59h 47m				
Total Time Savings:	0h 0m	-70h 51m				

Total Cost

	Current	Test 1	Test 2	Test 3	Test 4	Test 5
Total Cost Per Part:	\$16.33	\$7.53				
Total Annual Cost:	\$13063.49	\$6026.26				
Total Savings:	\$0.00	\$7037.23				