



## GENERAL INFORMATION

REVISION:

## COMMENTS

[illegible]

*STOCK*

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<b>STOCK:</b>	YES
SHAPE:	Box
SIZE:	4.5, 4.5, 0.5
RADIUS:	NA
LENGTH:	
AXIS:	NA
FILE:	
IDN:	NA

## C:\USERS\WESTONSHAKESPEAR\DOCUMENTS\MY

CYCLE TIME: 0 HOURS, 7 MINUTES, 36 SECONDS

### OPERATION LIST

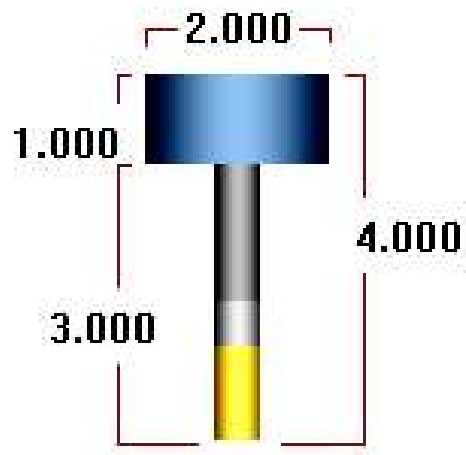
OPERATION INFO 3 - 2D High Speed (2D Area Mill)

CYCLE TIME: 0 HOURS, 1 MINUTES, 59 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 0.125  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.125  
STOCK TO LEAVE: 0.0 0.02  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO 1/2 FLAT ENDMILL

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:01:59



OPERATION INFO

4 - 2D High Speed (2D Area Mill)

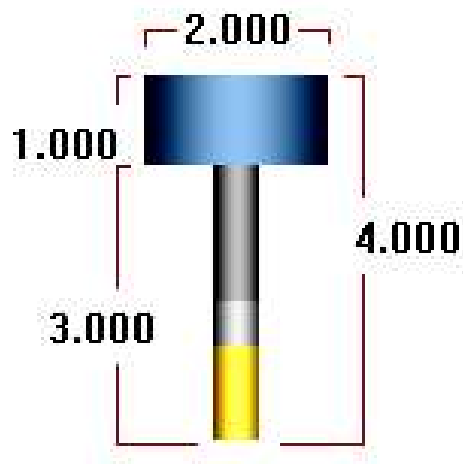
CYCLE TIME: 0 HOURS, 0 MINUTES, 19 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 0.125  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.375  
STOCK TO LEAVE: 0.0 0.02  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

1/2 FLAT ENDMILL

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:19



**OPERATION INFO**

**5 - 2D High Speed (2D Area Mill)**

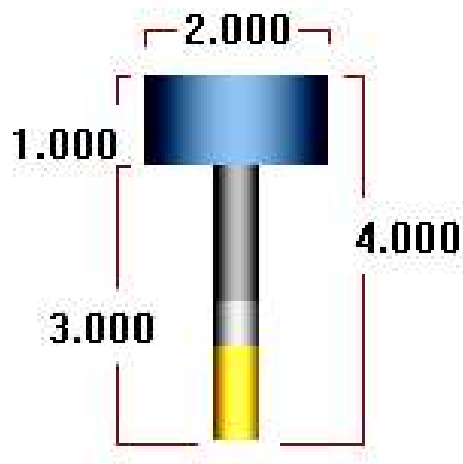
CYCLE TIME: 0 HOURS, 0 MINUTES, 19 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.375  
STOCK TO LEAVE: 0.0 0.02  
COMP TO TIP: YES  
WORK OFFSET: 0

**TOOL INFO**

**1/2 FLAT ENDMILL**

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:19



OPERATION INFO

6 - 2D High Speed (2D Area Mill)

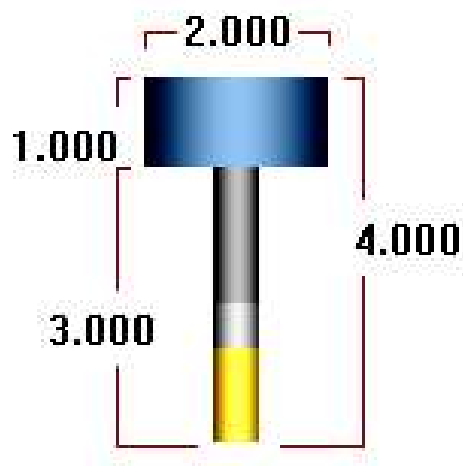
CYCLE TIME: 0 HOURS, 0 MINUTES, 23 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.45  
STOCK TO LEAVE: 0.0 0.02  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

1/2 FLAT ENDMILL

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:23



**OPERATION INFO**

**7 - Pocket (Standard)**

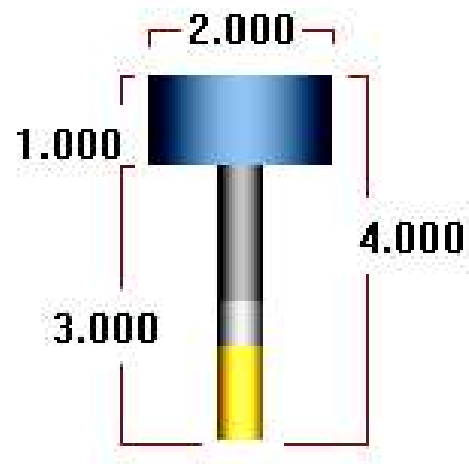
CYCLE TIME: 0 HOURS, 0 MINUTES, 8 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 60.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.125  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

**TOOL INFO**

**1/2 FLAT ENDMILL**

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:08



**OPERATION INFO**

**8 - Pocket (Standard)**

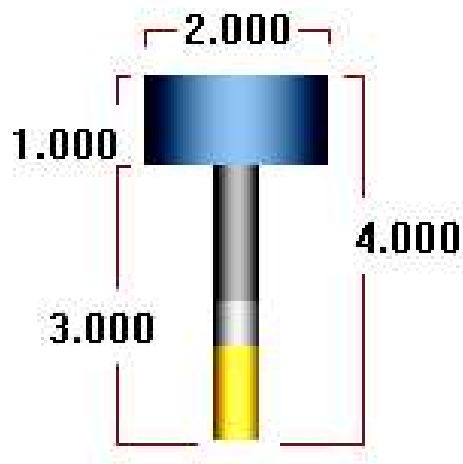
CYCLE TIME: 0 HOURS, 0 MINUTES, 4 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 60.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.375  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

**TOOL INFO**

**1/2 FLAT ENDMILL**

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:04





# OPERATION INFO

## 9 - Pocket (Standard)

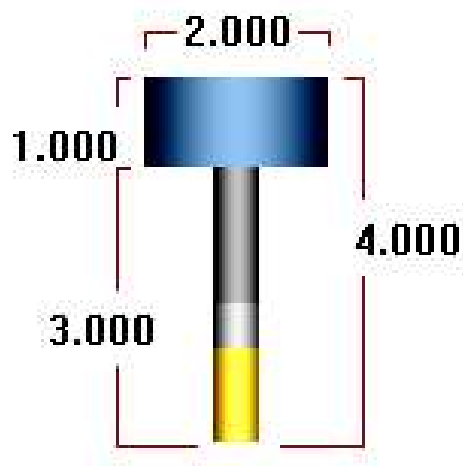
CYCLE TIME: 0 HOURS, 0 MINUTES, 4 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 60.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.375  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

# TOOL INFO

## 1/2 FLAT ENDMILL

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:04



**OPERATION INFO**

**10 - Pocket (Standard)**

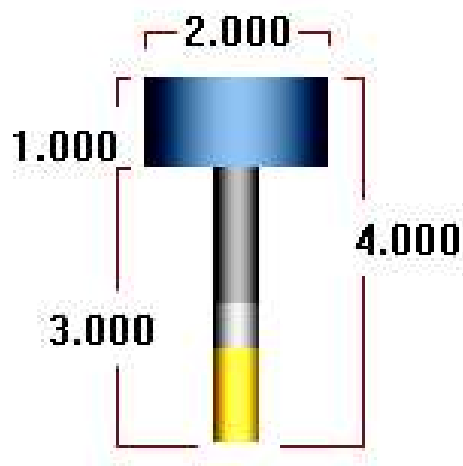
CYCLE TIME: 0 HOURS, 0 MINUTES, 3 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 60.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.45  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

**TOOL INFO**

**1/2 FLAT ENDMILL**

TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:03



**OPERATION INFO**

**11 - 2D High Speed (2D Dynamic Mill)**

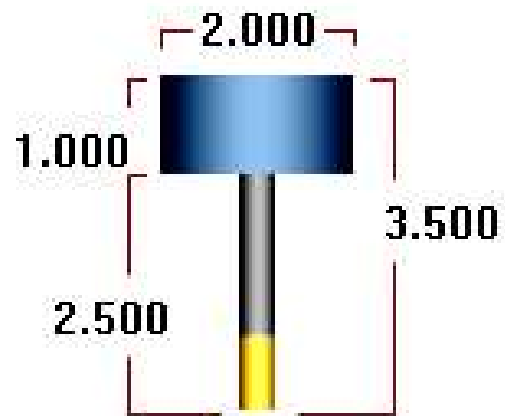
CYCLE TIME: 0 HOURS, 0 MINUTES, 21 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 1.0  
FEED PLANE: 0.05  
DEPTH: -0.5  
STOCK TO LEAVE: 0.0 0.02  
COMP TO TIP: YES  
WORK OFFSET: 0

**TOOL INFO**

**3/8 FLAT ENDMILL**

TYPE: Flat endmill  
NUMBER: 2  
DIAMETER: 0.375  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 2  
DIAMETER OFFSET: 2  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0011 SFM: 139.9869  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:21



OPERATION INFO

12 - Contour (2D)

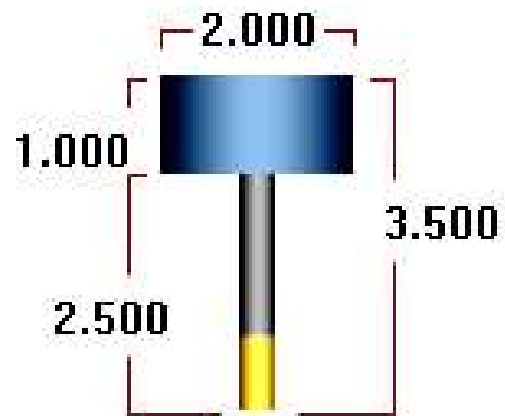
CYCLE TIME: 0 HOURS, 0 MINUTES, 44 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 60.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.5  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

3/8 FLAT ENDMILL

TYPE: Flat endmill  
NUMBER: 2  
DIAMETER: 0.375  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 2  
DIAMETER OFFSET: 2  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0011 SFM: 139.9869  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:44



OPERATION INFO

13 - Contour (2D chamfer)

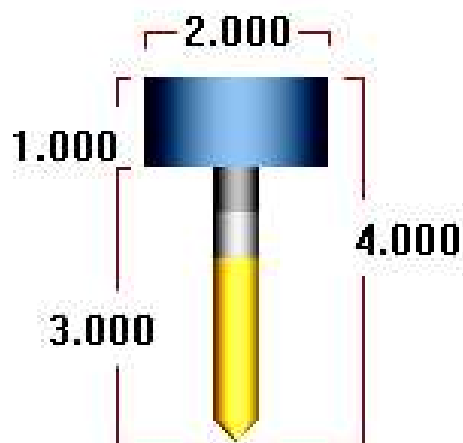
CYCLE TIME: 0 HOURS, 0 MINUTES, 38 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: 0.0  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

1/2 SPOTDRILL

TYPE: Spot drill  
NUMBER: 3  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 3  
DIAMETER OFFSET: 3  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.001 SFM: 69.8953  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:38



OPERATION INFO

14 - Contour (2D chamfer)

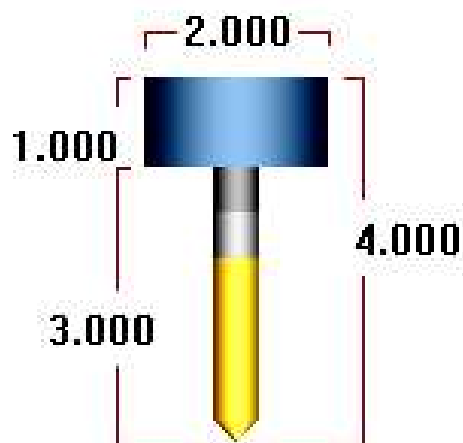
CYCLE TIME: 0 HOURS, 0 MINUTES, 13 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: 0.0  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

1/2 SPOTDRILL

TYPE: Spot drill  
NUMBER: 3  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 3  
DIAMETER OFFSET: 3  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.001 SFM: 69.8953  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:13



# OPERATION INFO

## 15 - Drill/Counterbore

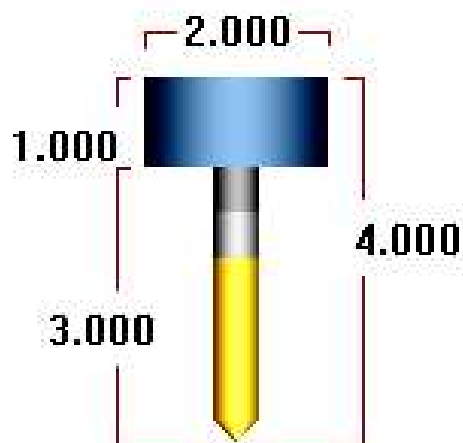
CYCLE TIME: 0 HOURS, 0 MINUTES, 2 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.125  
DEPTH: -0.0988  
STOCK TO LEAVE: 0.0  
COMP TO TIP: NO  
WORK OFFSET: 0

# TOOL INFO

## 1/2 SPOTDRILL

TYPE: Spot drill  
NUMBER: 3  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 3  
DIAMETER OFFSET: 3  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.001 SFM: 69.8953  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:02



# OPERATION INFO

# 16 - Drill/Counterbore

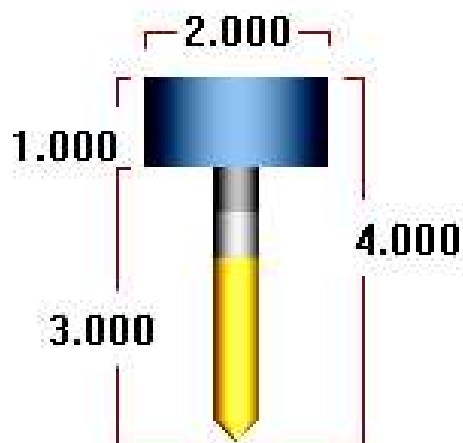
CYCLE TIME: 0 HOURS, 0 MINUTES, 2 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 49.0 inch/min  
CLEARANCE PLANE: 2.125  
RETRACT PLANE: 0.125  
FEED PLANE: 0.125  
DEPTH: -0.1925  
STOCK TO LEAVE: 0.0  
COMP TO TIP: NO  
WORK OFFSET: 0

# TOOL INFO

# 1/2 SPOTDRILL

TYPE: Spot drill  
NUMBER: 3  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 3  
DIAMETER OFFSET: 3  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.001 SFM: 69.8953  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:02





OPERATION INFO

17 - Peck Drill

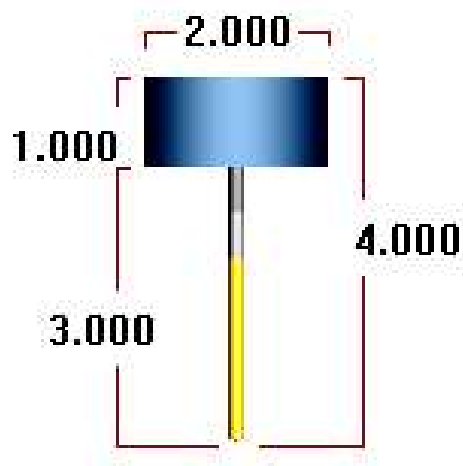
CYCLE TIME: 0 HOURS, 0 MINUTES, 39 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 6621 RPM  
FEEDRATE: 19.0703 inch/min  
CLEARANCE PLANE: 0.25  
RETRACT PLANE: 0.125  
FEED PLANE: 0.125  
DEPTH: -0.45  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

3/16 DRILL

TYPE: Drill  
NUMBER: 4  
DIAMETER: 0.1875  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 4  
DIAMETER OFFSET: 4  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.0014 SFM: 69.9935  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:39



OPERATION INFO

18 - Drill/Counterbore

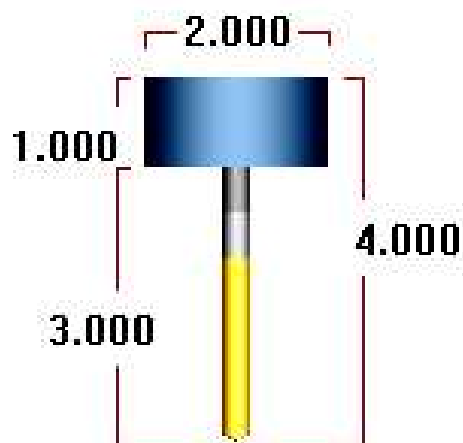
CYCLE TIME: 0 HOURS, 0 MINUTES, 50 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 855 RPM  
FEEDRATE: 4.2442 inch/min  
CLEARANCE PLANE: 0.25  
RETRACT PLANE: 0.125  
FEED PLANE: 0.125  
DEPTH: -0.0625  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

5/16 DRILL

TYPE: Drill  
NUMBER: 5  
DIAMETER: 0.3125  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 5  
DIAMETER OFFSET: 5  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.0025 SFM: 69.9444  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:50



OPERATION INFO

19 - Tap

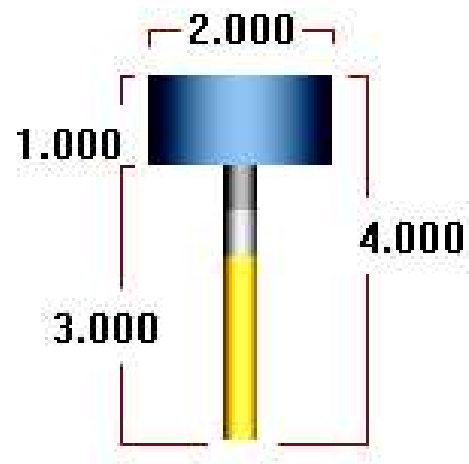
CYCLE TIME: 0 HOURS, 0 MINUTES, 33 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 178 RPM  
FEEDRATE: 11.125 inch/min  
CLEARANCE PLANE: 0.25  
RETRACT PLANE: 0.125  
FEED PLANE: 0.125  
DEPTH: 0.0  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

3/8-16 TAPRH

TYPE: Right-hand tap  
NUMBER: 6  
DIAMETER: 0.375  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 6  
DIAMETER OFFSET: 6  
MATERIAL: Carbide  
NUMBER OF FLUTES: 1  
FPT: 0.0625 SFM: 17.4738  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:33



OPERATION INFO

20 - Contour (2D)

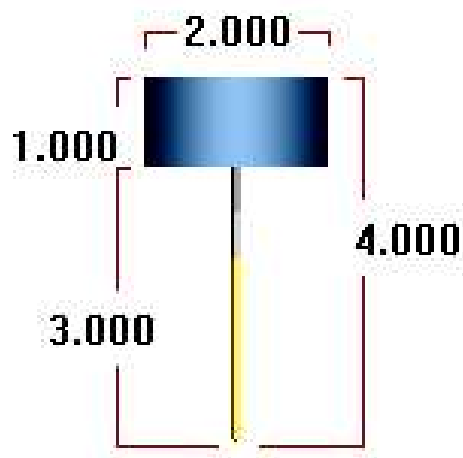
CYCLE TIME: 0 HOURS, 0 MINUTES, 6 SECONDS  
COMMENT:

PROGRAM NUMBER: 33012  
SPINDLE SPEED: 4966 RPM  
FEEDRATE: 39.0 inch/min  
CLEARANCE PLANE: 2.0  
RETRACT PLANE: 0.125  
FEED PLANE: 0.05  
DEPTH: -0.02  
STOCK TO LEAVE: 0.0  
COMP TO TIP: YES  
WORK OFFSET: 0

TOOL INFO

1/8 SPOTDRILL

TYPE: Spot drill  
NUMBER: 7  
DIAMETER: 0.125  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 7  
DIAMETER OFFSET: 7  
MATERIAL: HSS  
NUMBER OF FLUTES: 2  
FPT: 0.0002 SFM: 69.9935  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:00:06

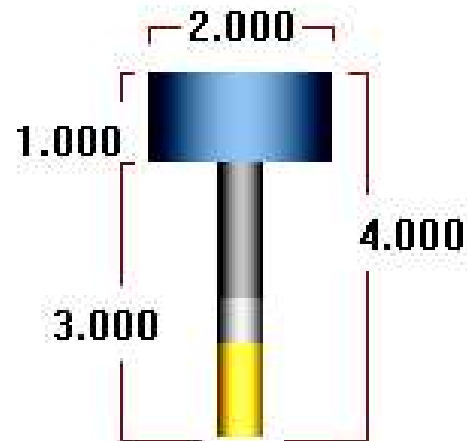


**TOOL LIST**

Sorted: NO

**TOOL INFO****1/2 FLAT ENDMILL**

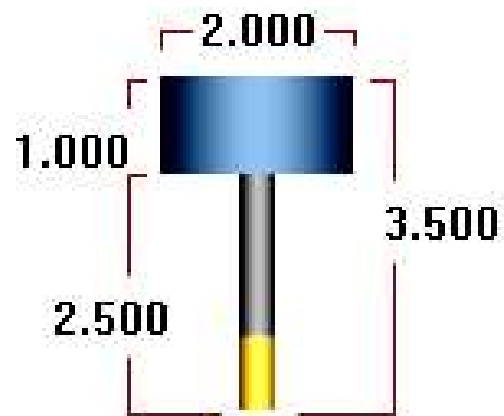
TYPE: Flat endmill  
NUMBER: 1  
DIAMETER: 0.5  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 1  
DIAMETER OFFSET: 1  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0131 SFM: 300.0  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:03:24



USED BY OPERATION: # 3 3 - 2D High Speed (2D Area Mill)  
USED BY OPERATION: # 4 4 - 2D High Speed (2D Area Mill)  
USED BY OPERATION: # 5 5 - 2D High Speed (2D Area Mill)  
USED BY OPERATION: # 6 6 - 2D High Speed (2D Area Mill)  
USED BY OPERATION: # 7 7 - Pocket (Standard)  
USED BY OPERATION: # 8 8 - Pocket (Standard)  
USED BY OPERATION: # 9 9 - Pocket (Standard)  
USED BY OPERATION: # 10 10 - Pocket (Standard)

**TOOL INFO****3/8 FLAT ENDMILL**

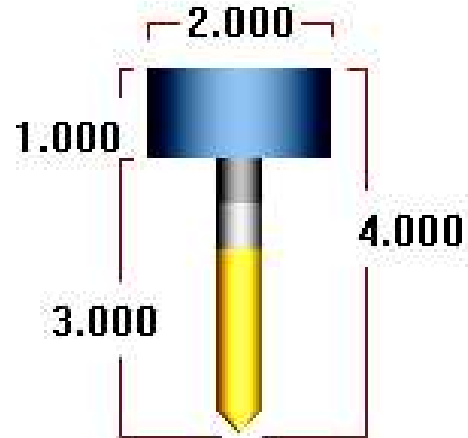
TYPE: Flat endmill  
NUMBER: 2  
DIAMETER: 0.375  
CORNER RADIUS: 0.0  
LENGTH OFFSET: 2  
DIAMETER OFFSET: 2  
MATERIAL: HSS  
NUMBER OF FLUTES: 4  
FPT: 0.0011 SFM: 139.9869  
MFG CODE:  
ASSEMBLY:  
HOLDER: Default Holder  
TIME: 00:01:05



USED BY OPERATION: # 11 11 - 2D High Speed (2D Dynamic Mill)  
USED BY OPERATION: # 12 12 - Contour (2D)

**TOOL INFO****1/2 SPOTDRILL**

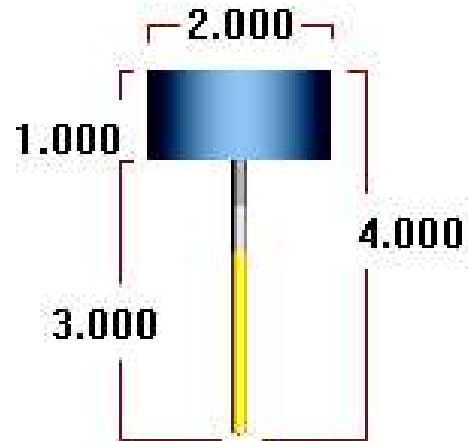
TYPE:	Spot drill
NUMBER:	3
DIAMETER:	0.5
CORNER RADIUS:	0.0
LENGTH OFFSET:	3
DIAMETER OFFSET:	3
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.001	SFM: 69.8953
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:56



USED BY OPERATION:	# 13	13 - Contour (2D chamfer)
USED BY OPERATION:	# 14	14 - Contour (2D chamfer)
USED BY OPERATION:	# 15	15 - Drill/Counterbore
USED BY OPERATION:	# 16	16 - Drill/Counterbore

**TOOL INFO****3/16 DRILL**

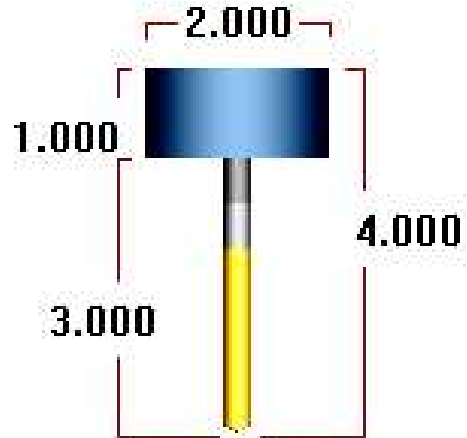
TYPE:	Drill
NUMBER:	4
DIAMETER:	0.1875
CORNER RADIUS:	0.0
LENGTH OFFSET:	4
DIAMETER OFFSET:	4
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0014	SFM: 69.9935
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:39



USED BY OPERATION:	# 17	17 - Peck Drill
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**TOOL INFO****5/16 DRILL**

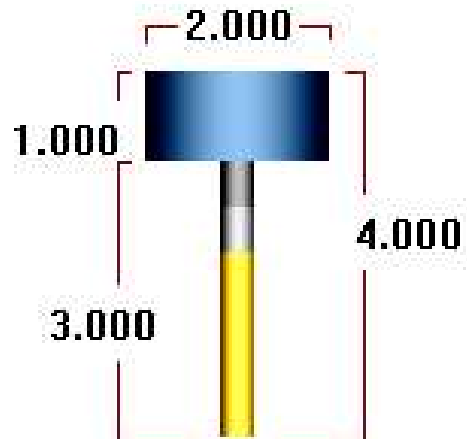
TYPE:	Drill
NUMBER:	5
DIAMETER:	0.3125
CORNER RADIUS:	0.0
LENGTH OFFSET:	5
DIAMETER OFFSET:	5
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0025	SFM: 69.9444
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:50



USED BY OPERATION: # 18 18 - Drill/Counterbore

**TOOL INFO****3/8-16 TAPRH**

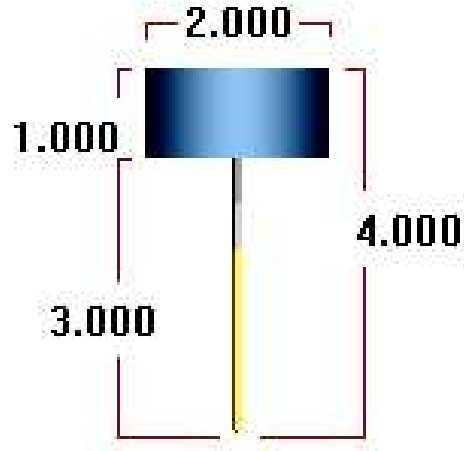
TYPE:	Right-hand tap
NUMBER:	6
DIAMETER:	0.375
CORNER RADIUS:	0.0
LENGTH OFFSET:	6
DIAMETER OFFSET:	6
MATERIAL:	Carbide
NUMBER OF FLUTES:	1
FPT: 0.0625	SFM: 17.4738
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:33



USED BY OPERATION: # 19 19 - Tap

**TOOL INFO****1/8 SPOTDRILL**

TYPE:	Spot drill
NUMBER:	7
DIAMETER:	0.125
CORNER RADIUS:	0.0
LENGTH OFFSET:	7
DIAMETER OFFSET:	7
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0002	SFM: 69.9935
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:06



USED BY OPERATION:	# 20	20 - Contour (2D)
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**WORK OFFSETS****OFFSET INFO**

NUMBER: 0	PLANE: Top	ORIGIN: 0.0, 0.0, 0.0
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USED BY OPERATION:	# 3	3 - 2D High Speed (2D Area Mill)
USED BY OPERATION:	# 4	4 - 2D High Speed (2D Area Mill)
USED BY OPERATION:	# 5	5 - 2D High Speed (2D Area Mill)
USED BY OPERATION:	# 6	6 - 2D High Speed (2D Area Mill)
USED BY OPERATION:	# 7	7 - Pocket (Standard)
USED BY OPERATION:	# 8	8 - Pocket (Standard)
USED BY OPERATION:	# 9	9 - Pocket (Standard)
USED BY OPERATION:	# 10	10 - Pocket (Standard)
USED BY OPERATION:	# 11	11 - 2D High Speed (2D Dynamic Mill)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Contour (2D chamfer)
USED BY OPERATION:	# 14	14 - Contour (2D chamfer)
USED BY OPERATION:	# 15	15 - Drill/Counterbore
USED BY OPERATION:	# 16	16 - Drill/Counterbore
USED BY OPERATION:	# 17	17 - Peck Drill
USED BY OPERATION:	# 18	18 - Drill/Counterbore
USED BY OPERATION:	# 19	19 - Tap
USED BY OPERATION:	# 20	20 - Contour (2D)