Mastercam

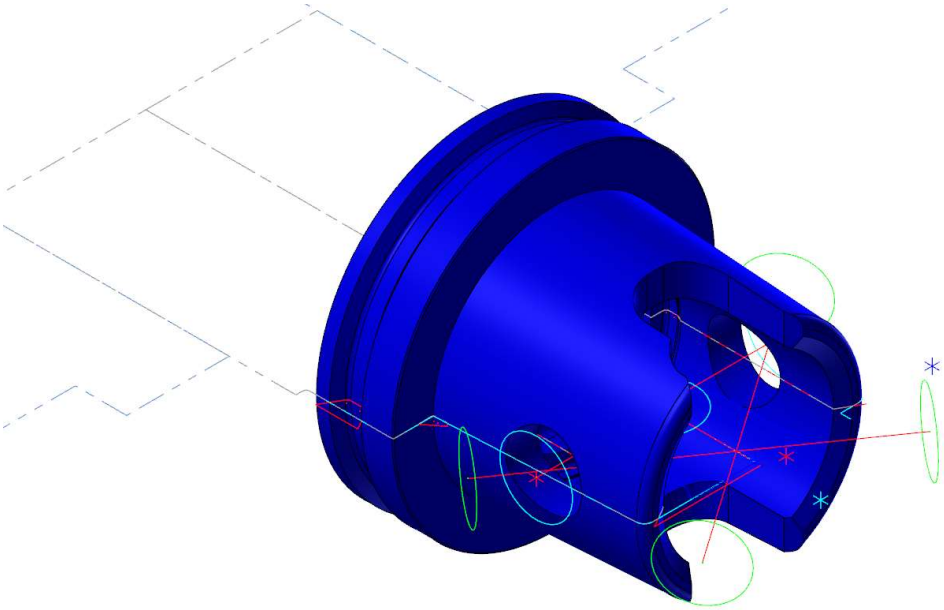
Setup Sheet Report

Lathe Default

GENERAL INFORMATION

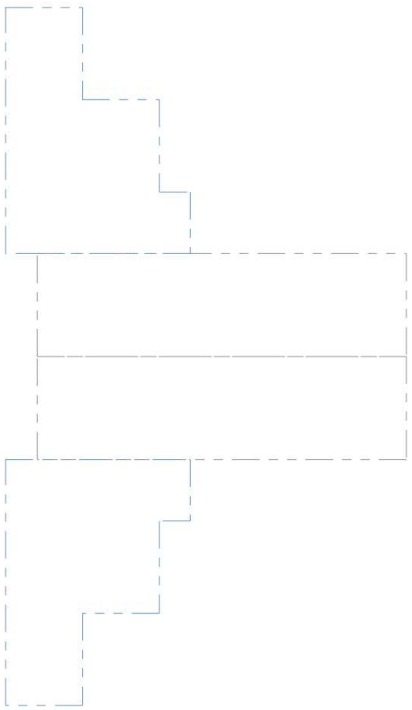
PROJECT NAME:	ABC Test Project	
CUSTOMER NAME:	ABC Manufactoring Company	
PROGRAMMER:	Mick George	
DRAWING:	12345	REVISION: A
DATE:	Tuesday, May 23, 2017	
TIME:	3:51 PM	

C:\USERS\PUBLIC\DOCUMENTS\SHARED



COMMENTS

STOCK INFO



CHUCK (LEFT):	YES
GRIP LENGTH:	0.0
HEIGHT:	2.0
WIDTH:	1.5
THICKNESS:	0.625
REFERENCE:	X-0.75, Z0.8365
HSTEP:	0.25
VSTEP:	0.5

CHUCK (RIGHT):	NO
GRIP LENGTH:	NA
HEIGHT:	NA
WIDTH:	NA
THICKNESS:	NA
REFERENCE:	NA
HSTEP:	NA
VSTEP:	NA

STOCK (LEFT):	YES
OUTSIDE DIAMETER:	1.673
INSIDE DIAMETER:	0.0
LENGTH:	3.0
Z REFERENCE:	1.007

STOCK (RIGHT):	NO
OUTSIDE DIAMETER:	NA
INSIDE DIAMETER:	NA
LENGTH:	NA
Z REFERENCE:	NA

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CYCLE TIME: 0 HOURS, 2 MINUTES, 48 SECONDS

OPERATION LIST

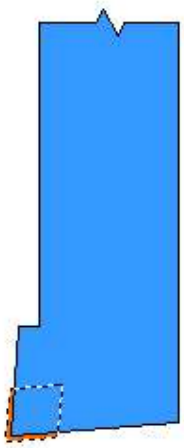
OPERATION INFO ***1 - Lathe Face***

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

SPINDLE SPEED:	400 CSS
FAST FEED:	0.012 inch/rev
SLOW FEED:	0.0045 inch/rev
STOCK TO LEAVE (X):	NA
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood

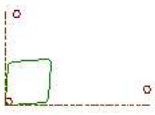
TOOL INFO ***T0101: General Turning Tool - SCLCR 16-3D [CCMT 32.52]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	400 CSS
FAST FEED:	0.012 inch/rev
SLOW FEED:	0.0045 inch/rev
OFFSET:	1
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:02



HOLDER:	SCLCR 16-3D	
LENGTH:	6.0	
WIDTH:	1.25	
ORIENTATION:	Vertical	ANGLE: 0.0
HAND:	Right	

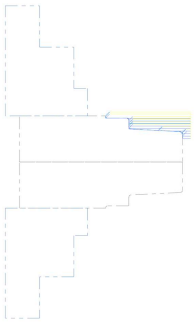
INSERT:	CCMT 32.52
SHAPE:	C (80 deg. diamond)
RADIUS:	0.0313
MATERIAL:	Carbide



OPERATION INFO ***2 - Lathe Rough***

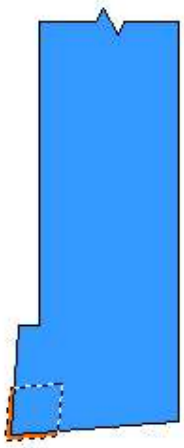
CYCLE TIME:	0 HOURS, 0 MINUTES, 33 SECONDS
COMMENT:	

SPINDLE SPEED:	400 CSS
FAST FEED:	0.0158 inch/rev
SLOW FEED:	0.0079 inch/rev
STOCK TO LEAVE (X):	0.01
STOCK TO LEAVE (Z):	0.005
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



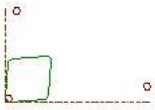
TOOL INFO ***T0101: General Turning Tool - SCLCR 16-3D [CCMT 32.52]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	400 CSS
FAST FEED:	0.0158 inch/rev
SLOW FEED:	0.0079 inch/rev
OFFSET:	1
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:33



HOLDER:	SCLCR 16-3D
LENGTH:	6.0
WIDTH:	1.25
ORIENTATION:	Vertical ANGLE: 0.0
HAND:	Right

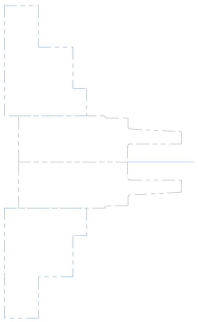
INSERT:	CCMT 32.52
SHAPE:	C (80 deg. diamond)
RADIUS:	0.0313
MATERIAL:	Carbide



OPERATION INFO ***3 - Lathe Drill***

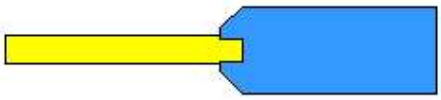
CYCLE TIME:	0 HOURS, 0 MINUTES, 15 SECONDS
COMMENT:	

SPINDLE SPEED:	1450 RPM
FAST FEED:	0.0032 inch/rev
SLOW FEED:	0.0 inch/min
STOCK TO LEAVE (X):	0.0
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



TOOL INFO ***T2020: Drilling Tool - Lathe Tool #310***

TOP TURRET:	NO
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	1450 RPM
FAST FEED:	0.0032 inch/rev
SLOW FEED:	0.0 inch/min
OFFSET:	20
OFFSET (BACK):	NA
INSERT UP:	YES
COOLANT:	Flood
TIME:	00:00:15



HOLDER:

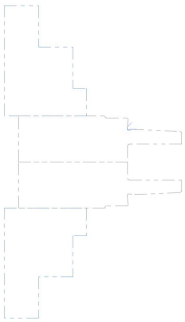
LENGTH:	10.0	
WIDTH:	2.0	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

DRILL:	End Mill
DIAMETER:	0.656
TIP ANGLE:	118.0
MATERIAL:	Carbide

OPERATION INFO ***4 - Lathe Finish***

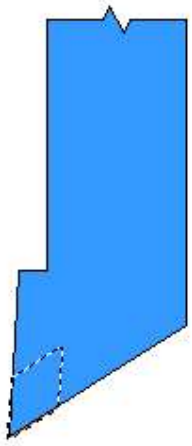
CYCLE TIME:	0 HOURS, 0 MINUTES, 3 SECONDS
COMMENT:	

SPINDLE SPEED:	600 CSS
FAST FEED:	0.003 inch/rev
SLOW FEED:	0.0039 inch/rev
STOCK TO LEAVE (X):	0.0
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



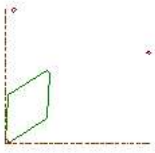
TOOL INFO ***T0202: General Turning Tool - PDJNR 2525M 11 [R04]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	600 CSS
FAST FEED:	0.003 inch/rev
SLOW FEED:	0.0039 inch/rev
OFFSET:	2
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:03



HOLDER:	PDJNR 2525M 11
LENGTH:	150.0
WIDTH:	32.0
ORIENTATION:	Vertical ANGLE: 0.0
HAND:	Right

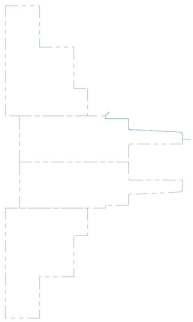
INSERT:	DNMG 11 04 04
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0157
MATERIAL:	Carbide



OPERATION INFO ***5 - Lathe Finish***

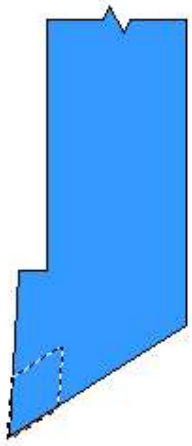
CYCLE TIME:	0 HOURS, 0 MINUTES, 21 SECONDS
COMMENT:	

SPINDLE SPEED:	600 CSS
FAST FEED:	0.003 inch/rev
SLOW FEED:	0.0039 inch/rev
STOCK TO LEAVE (X):	0.0
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



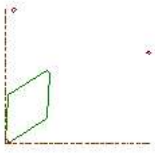
TOOL INFO ***T0202: General Turning Tool - PDJNR 2525M 11 [R04]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	600 CSS
FAST FEED:	0.003 inch/rev
SLOW FEED:	0.0039 inch/rev
OFFSET:	2
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:21



HOLDER:	PDJNR 2525M 11
LENGTH:	150.0
WIDTH:	32.0
ORIENTATION:	Vertical ANGLE: 0.0
HAND:	Right

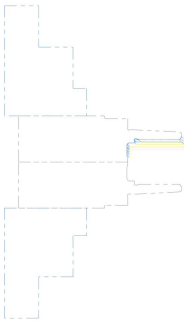
INSERT:	DNMG 11 04 04
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0157
MATERIAL:	Carbide



OPERATION INFO ***6 - Lathe Rough***

CYCLE TIME:	0 HOURS, 0 MINUTES, 10 SECONDS
COMMENT:	

SPINDLE SPEED:	295 CSS
FAST FEED:	0.0118 inch/rev
SLOW FEED:	0.0059 inch/min
STOCK TO LEAVE (X):	0.01
STOCK TO LEAVE (Z):	0.005
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



TOOL INFO ***T4444: Boring Bar - ID Finish .1875 dia. / 55 deg.***

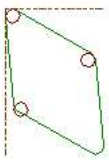
TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	295 CSS
FAST FEED:	0.0118 inch/rev
SLOW FEED:	0.0059 inch/min
OFFSET:	44
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:10

HOLDER:

LENGTH:	4.0	
WIDTH:	0.1094	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

INSERT:

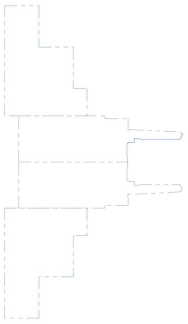
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0078
MATERIAL:	Carbide



OPERATION INFO ***7 - Lathe Finish***

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

SPINDLE SPEED:	295 CSS
FAST FEED:	0.0118 inch/rev
SLOW FEED:	0.0 inch/min
STOCK TO LEAVE (X):	0.0
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood



TOOL INFO ***T4444: Boring Bar - ID Finish .1875 dia. / 55 deg.***

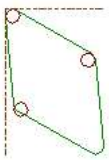
TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	295 CSS
FAST FEED:	0.0118 inch/rev
SLOW FEED:	0.0 inch/min
OFFSET:	44
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:04

HOLDER:

LENGTH:	4.0	
WIDTH:	0.1094	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

INSERT:

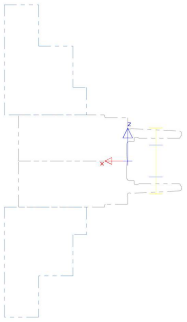
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0078
MATERIAL:	Carbide



OPERATION INFO ***8 - C-Axis Cross Drill - Drill/Counterbore***

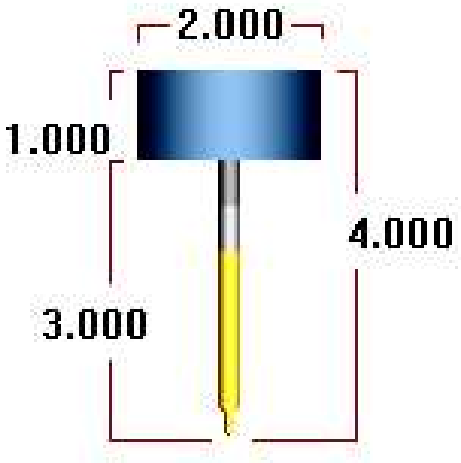
CYCLE TIME:	0 HOURS, 0 MINUTES, 7 SECONDS
COMMENT:	C-axis Cross Drill

PROGRAM NUMBER:	1
SPINDLE SPEED:	275 RPM
FEEDRATE:	5.0 inch/min
CLEARANCE PLANE:	1.2
RETRACT PLANE:	0.0
FEED PLANE:	0.6002
DEPTH:	-0.31
STOCK TO LEAVE:	0.0
COMP TO TIP:	NO
WORK OFFSET:	-1



TOOL INFO ***1/4 CENTERDRILL***

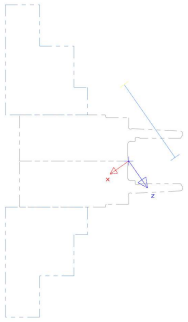
TYPE:	Center Drill
NUMBER:	2
DIAMETER:	0.25
CORNER RADIUS:	0.0
LENGTH OFFSET:	2
DIAMETER OFFSET:	2
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0005	SFM: 69.9607
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:07



OPERATION INFO ***9 - C-Axis Drill - Drill/Counterbore***

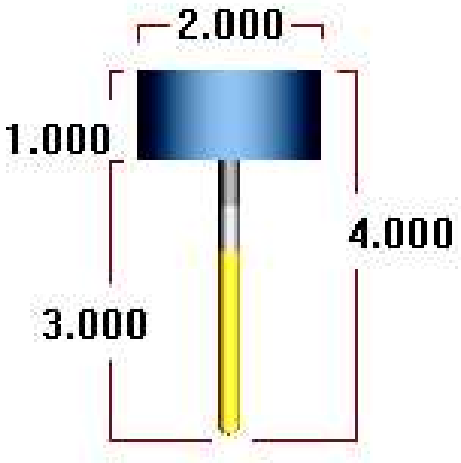
CYCLE TIME:	0 HOURS, 0 MINUTES, 19 SECONDS
COMMENT:	

PROGRAM NUMBER:	1
SPINDLE SPEED:	342 RPM
FEEDRATE:	5.0 inch/min
CLEARANCE PLANE:	1.2
RETRACT PLANE:	0.0
FEED PLANE:	1.186
DEPTH:	-0.4313
STOCK TO LEAVE:	0.0
COMP TO TIP:	NO
WORK OFFSET:	-1



TOOL INFO ***#7 DRILL***

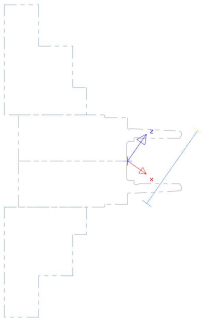
TYPE:	Drill
NUMBER:	90
DIAMETER:	0.201
CORNER RADIUS:	0.0
LENGTH OFFSET:	90
DIAMETER OFFSET:	90
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0048	SFM: 399.9479
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:19



OPERATION INFO ***10 - C-Axis Drill - Drill/Counterbore***

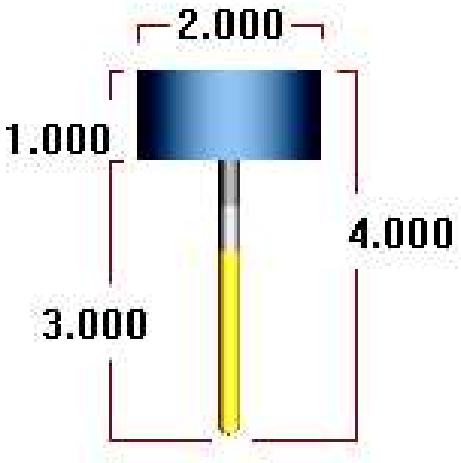
CYCLE TIME:	0 HOURS, 0 MINUTES, 19 SECONDS
COMMENT:	C-axis Drill

PROGRAM NUMBER:	1
SPINDLE SPEED:	1500 RPM
FEEDRATE:	5.0 inch/min
CLEARANCE PLANE:	1.2
RETRACT PLANE:	0.0
FEED PLANE:	1.186
DEPTH:	-0.4313
STOCK TO LEAVE:	0.0
COMP TO TIP:	NO
WORK OFFSET:	-1



TOOL INFO ***#7 DRILL***

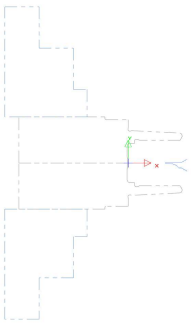
TYPE:	Drill
NUMBER:	90
DIAMETER:	0.201
CORNER RADIUS:	0.0
LENGTH OFFSET:	90
DIAMETER OFFSET:	90
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0048	SFM: 399.9479
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:19



OPERATION INFO ***11 - Contour (2D)***

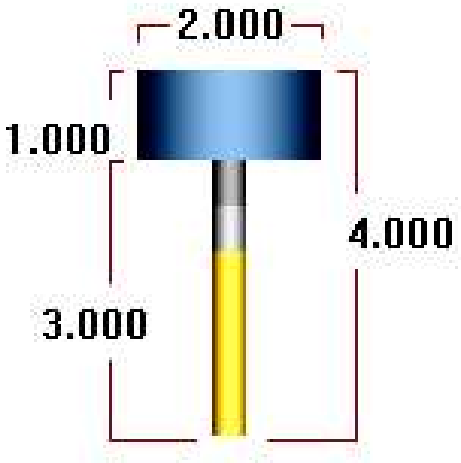
CYCLE TIME:	0 HOURS, 0 MINUTES, 14 SECONDS
COMMENT:	

PROGRAM NUMBER:	1
SPINDLE SPEED:	900 RPM
FEEDRATE:	5.0 inch/min
CLEARANCE PLANE:	1.2
RETRACT PLANE:	0.7
FEED PLANE:	0.0
DEPTH:	-0.31
STOCK TO LEAVE:	0.0
COMP TO TIP:	YES
WORK OFFSET:	-1



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

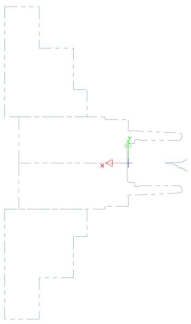
TYPE:	Endmill1 Flat
NUMBER:	38
DIAMETER:	0.375
CORNER RADIUS:	0.0
LENGTH OFFSET:	38
DIAMETER OFFSET:	38
MATERIAL:	HSS
NUMBER OF FLUTES:	4
FPT: 0.0011	SFM: 139.9869
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:14



OPERATION INFO ***12 - Contour (2D)***

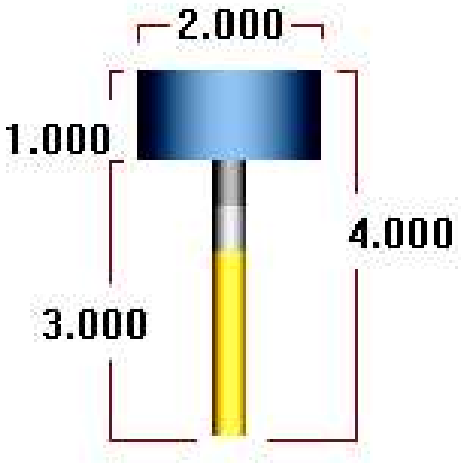
CYCLE TIME:	0 HOURS, 0 MINUTES, 14 SECONDS
COMMENT:	

PROGRAM NUMBER:	1
SPINDLE SPEED:	900 RPM
FEEDRATE:	5.0 inch/min
CLEARANCE PLANE:	1.2
RETRACT PLANE:	0.7
FEED PLANE:	0.0
DEPTH:	-0.31
STOCK TO LEAVE:	0.0
COMP TO TIP:	YES
WORK OFFSET:	-1



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

TYPE:	Endmill1 Flat
NUMBER:	38
DIAMETER:	0.375
CORNER RADIUS:	0.0
LENGTH OFFSET:	38
DIAMETER OFFSET:	38
MATERIAL:	HSS
NUMBER OF FLUTES:	4
FPT: 0.0011	SFM: 139.9869
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:14



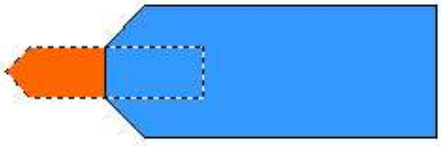
OPERATION INFO ***13 - Lathe Drill***

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

SPINDLE SPEED:	800 RPM
FAST FEED:	10.0 inch/rev
SLOW FEED:	0.0 inch/min
STOCK TO LEAVE (X):	0.0
STOCK TO LEAVE (Z):	0.0
RETRACT ACTIVE:	NO
ENTRY ACTIVE:	NO
COOLANT:	Flood

TOOL INFO ***T0303: Drilling Tool - Spot Tool .75 Dia.***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	800 RPM
FAST FEED:	10.0 inch/rev
SLOW FEED:	0.0 inch/min
OFFSET:	3
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:00



HOLDER:

LENGTH:	6.5	
WIDTH:	2.0	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

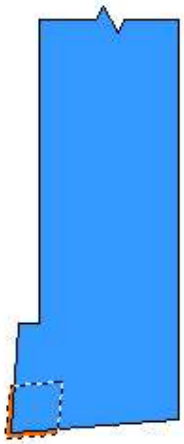
DRILL:	Countersink
DIAMETER:	0.75
TIP ANGLE:	90.0
MATERIAL:	Carbide

TOOL LIST

Sorted: NO

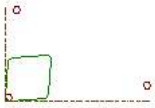
TOOL INFO ***T0101: General Turning Tool - SCLCR 16-3D [CCMT 32.52]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	400 CSS
FAST FEED:	0.012 inch/rev
SLOW FEED:	0.0045 inch/rev
OFFSET:	1
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:36



HOLDER:	SCLCR 16-3D
LENGTH:	6.0
WIDTH:	1.25
ORIENTATION:	Vertical ANGLE: 0.0
HAND:	Right

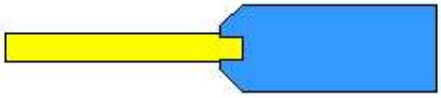
INSERT:	CCMT 32.52
SHAPE:	C (80 deg. diamond)
RADIUS:	0.0313
MATERIAL:	Carbide



USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough

TOOL INFO ***T2020: Drilling Tool - Lathe Tool #310***

TOP TURRET:	NO
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	1450 RPM
FAST FEED:	0.0032 inch/rev
SLOW FEED:	0.0 inch/min
OFFSET:	20
OFFSET (BACK):	NA
INSERT UP:	YES
COOLANT:	Flood
TIME:	00:00:15



HOLDER:

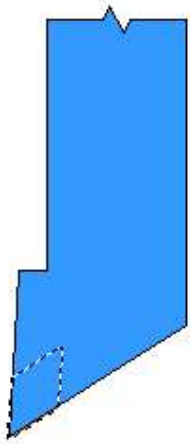
LENGTH:	10.0	
WIDTH:	0.0	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

DRILL:	End Mill
DIAMETER:	0.656
TIP ANGLE:	118.0
MATERIAL:	Carbide

USED BY OPERATION: # 3 3 - Lathe Drill

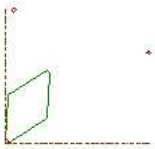
TOOL INFO ***T0202: General Turning Tool - PDJNR 2525M 11 [R04]***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	600 CSS
FAST FEED:	0.003 inch/rev
SLOW FEED:	0.0039 inch/rev
OFFSET:	2
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:25



HOLDER:	PDJNR 2525M 11
LENGTH:	150.0
WIDTH:	32.0
ORIENTATION:	Vertical ANGLE: 0.0
HAND:	Right

INSERT:	DNMG 11 04 04
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0157
MATERIAL:	Carbide



USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish

TOOL INFO ***T4444: Boring Bar - ID Finish .1875 dia. / 55 deg.***

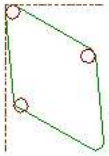
TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	295 CSS
FAST FEED:	0.0118 inch/rev
SLOW FEED:	0.0059 inch/min
OFFSET:	44
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:15

HOLDER:

LENGTH:	4.0
WIDTH:	0.1094
ORIENTATION:	Horizontal ANGLE: 0.0
HAND:	Right

INSERT:

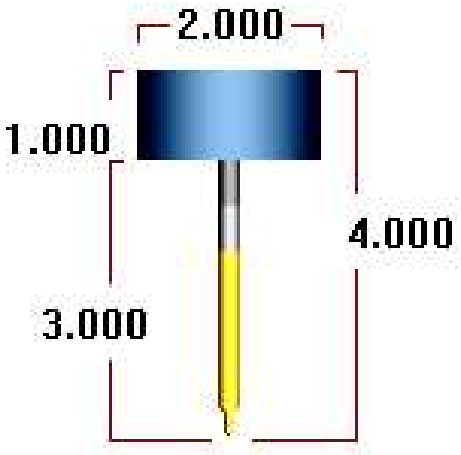
SHAPE:	D (55 deg. diamond)
RADIUS:	0.0078
MATERIAL:	Carbide



USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish

TOOL INFO ***1/4 CENTERDRILL***

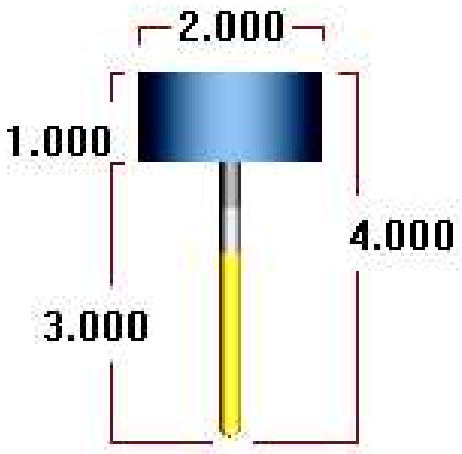
TYPE:	Center Drill
NUMBER:	2
DIAMETER:	0.25
CORNER RADIUS:	0.0
LENGTH OFFSET:	2
DIAMETER OFFSET:	2
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0005	SFM: 69.9607
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:07



USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore

TOOL INFO ***#7 DRILL***

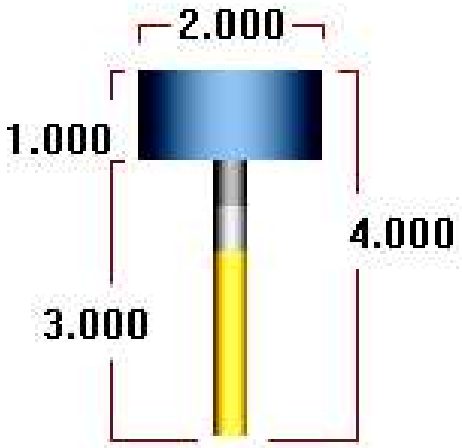
TYPE:	Drill
NUMBER:	90
DIAMETER:	0.201
CORNER RADIUS:	0.0
LENGTH OFFSET:	90
DIAMETER OFFSET:	90
MATERIAL:	HSS
NUMBER OF FLUTES:	2
FPT: 0.0048	SFM: 399.9479
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:38



USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore

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

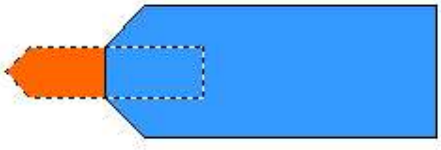
TYPE:	Endmill1 Flat
NUMBER:	38
DIAMETER:	0.375
CORNER RADIUS:	0.0
LENGTH OFFSET:	38
DIAMETER OFFSET:	38
MATERIAL:	HSS
NUMBER OF FLUTES:	4
FPT: 0.0011	SFM: 139.9869
MFG CODE:	
ASSEMBLY:	
HOLDER:	Default Holder
TIME:	00:00:28



USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)

TOOL INFO ***T0303: Drilling Tool - Spot Tool .75 Dia.***

TOP TURRET:	YES
ACTIVE SPINDLE:	Left
SPINDLE DIRECTION:	CCW
SPINDLE SPEED:	800 RPM
FAST FEED:	10.0 inch/rev
SLOW FEED:	0.0 inch/min
OFFSET:	3
OFFSET (BACK):	NA
INSERT UP:	NO
COOLANT:	Flood
TIME:	00:00:00



HOLDER:

LENGTH:	6.5	
WIDTH:	0.0	
ORIENTATION:	Horizontal	ANGLE: 0.0
HAND:	Right	

DRILL:	Countersink
DIAMETER:	0.75
TIP ANGLE:	90.0
MATERIAL:	Carbide

USED BY OPERATION: # 13 13 - Lathe Drill

WORK OFFSETS

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill

OFFSET INFO

NUMBER: -1	PLANE:	ORIGIN: X0.0, Z0.0
USED BY OPERATION:	# 1	1 - Lathe Face
USED BY OPERATION:	# 2	2 - Lathe Rough
USED BY OPERATION:	# 3	3 - Lathe Drill
USED BY OPERATION:	# 4	4 - Lathe Finish
USED BY OPERATION:	# 5	5 - Lathe Finish
USED BY OPERATION:	# 6	6 - Lathe Rough
USED BY OPERATION:	# 7	7 - Lathe Finish
USED BY OPERATION:	# 8	8 - C-Axis Cross Drill - Drill/Counterbore
USED BY OPERATION:	# 9	9 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 10	10 - C-Axis Drill - Drill/Counterbore
USED BY OPERATION:	# 11	11 - Contour (2D)
USED BY OPERATION:	# 12	12 - Contour (2D)
USED BY OPERATION:	# 13	13 - Lathe Drill