

Part Name: Cap	Drawing: EX2–L1-DG1	Revision: A
Material: Ø3" X 2" STEEL 12L14		Date: 2025
Machine: Leadwell	Control: Fanuc Oi	Prepared by: TD

O	Program # Prefix: O
0032	Program #: 0032

N2	Block #: 2
G20	Positioning: Inch
G40	Tool nose radius compensation: Cancel
G99	Feedrate: Distance/revolution

N4	Block #: 4
G50	Spindle: Maximum RPM
S2500	2500 RPM

N6	Block #: 6
T1	Tool select #: 1: 80° R/H turning tool
01	Compensation: Tool offsets # 01

N8	Block #: 8
G96	Spindle: Constant surface speed
S400	Spindle: Speed 400 FPM
M4	Spindle: Counter-Clockwise

N10	Block #: 10
G0	Positioning: Rapid
G54	Part zero selection: One
X5.	Positioning on X axis: X5.
Z5.	Positioning on Z axis: Z5.
M8	Coolant: On

N12	Block #: 12
X3.2	Positioning on X axis: X3.2
Z.1	Positioning on Z axis: Z.1

N14	Block #: 14
G94	Cycle: Facing
X–.1	Positioning on X axis: X–.1
Z.005	Positioning on Z axis: Z.005
F.005	Feedrate: .005 IPR

N16	Block #: 16
G0	Positioning: Rapid
X3.	Positioning on X axis: X3.

N18	Block #: 18
G90	Cycle: Turning
X2.8	Positioning on X axis: X2.8
Z–1.245	Positioning on Z axis: Z–1.245
F.01	Feedrate: .01 IPR

N20	Block #: 20
X2.6	Positioning on X axis: X2.6

N22	Block #: 20
X2.4	Positioning on X axis: X2.4

N24	Block #: 24
X2.2	Positioning on X axis: X2.2

N26	Block #: 26
X2.02	Positioning on X axis: X2.02

N28	Block #: 28
X1.895	Positioning on X axis: X1.895
Z–.745	Positioning on Z axis: Z–.745

N30	Block #: 30
G0	Positioning: Rapid
X5.	Positioning on X axis: X5.
Z5.	Positioning on Z axis: Z5.
M9	Coolant: Off

N32	Block #: 32
T1	Tool select #: 1: 80° R/H turning tool
00	Compensation: Cancel
M5	Spindle: Stop

N34	Block #: 34
M1	Program: Optional stop

N36	Block #: 36
G50	Spindle: Maximum RPM
S507	507 RPM

N38	Block #: 38
T10	Tool select #: 10: Ø.75" drill
10	Compensation: Tool offsets # 10

N40	Block #: 40
G97	Spindle: Revolutions per minute
S507	Spindle: Speed 507 RPM
M3	Spindle: Clockwise

N42	Block #: 42
G54	Part zero selection: One
Z.1	Positioning on Z axis: Z.1
M8	Coolant: On

N44	Block #: 44
X0.	Positioning on X axis: X0.

N46	Block #: 46
G74	Cycle: Peck drilling
R.05	Retract distance on Z axis: .05

N48	Block #: 48
G74	Cycle: Peck drilling
Z-1.5	Positioning on Z axis: Z-1.5
Q1250	Peck distance: .125
F.0075	Feedrate: .0075 IPR

N50	Block #: 50
X5.	Positioning on X axis: X5.

N52	Block #: 52
Z5.	Positioning on Z axis: Z5.
M9	Coolant: Off

N54	Block #: 54
T10	Tool select #: 10: Ø.75" drill
00	Compensation: Cancel
M5	Spindle: Stop

N56	Block #: 56
M1	Program: Optional stop

N58	Block #: 58
G50	Spindle: Maximum RPM
S2500	2500 RPM

N60	Block #: 60
T2	Tool select #: 2: 80° R/H boring tool
02	Compensation: Tool offsets # 02

N62	Block #: 62
G96	Spindle: Constant surface speed
S95	Spindle: Speed 400 FPM
M4	Spindle: Counter-Clockwise

N64	Block #: 64
G54	Part zero selection: One
X.75	Positioning on X axis: X.75
Z.1	Positioning on Z axis: Z.1
M8	Coolant: On

N66	Block #: 66
G90	Cycle: Turning
X.85	Positioning on X axis: X.85
Z-1.245	Positioning on Z axis: Z-1.245
F.003	Feedrate: .003 IPR

N68	Block #: 68
X.95	Positioning on X axis: X.95

N70	Block #: 70
X1.05	Positioning on X axis: X1.05

N72	Block #: 72
X1.15	Positioning on X axis: X1.15

N74	Block #: 74
X1.23	Positioning on X axis: X1.23

N76	Block #: 76
X1.33	Positioning on X axis: X1.33
Z-.87	Positioning on Z axis: Z-.87

N78	Block #: 78
X1.43	Positioning on X axis: X1.43
N80	Block #: 80
X1.53	Positioning on X axis: X1.53
N82	Block #: 82
X1.605	Positioning on X axis: X1.605
N84	Block #: 84
G0	Positioning: Rapid
X5.	Positioning on X axis: X5.
Z5.	Positioning on Z axis: Z5.
M9	Coolant: Off
N86	Block #: 86
T2	Tool select #: 2: 80° R/H boring tool
00	Compensation: Cancel
M5	Spindle: Stop
N88	Block #: 88
M1	Program: Optional stop
N90	Block #: 90
G50	Spindle: Maximum RPM
S3000	3000 RPM
N92	Block #: 92
T3	Tool select #: 3: 55° R/H turning tool
03	Compensation: Tool offsets # 03
N94	Block #: 94
G96	Spindle: Constant surface speed
S400	Spindle: Speed 400 FPM
M4	Spindle: Counter-Clockwise
N96	Block #: 96
G54	Part zero selection: One
X1.995	Positioning on X axis: X1.995
Z.05	Positioning on Z axis: Z.05
M8	Coolant: On

N98	Block #: 98
G94	Cycle: Facing
X1.505	Positioning on X axis: X1.505
Z0.	Positioning on Z axis: Z0.
F.003	Feedrate: .003 IPR

N100	Block #: 100
G0	Positioning: Rapid
X1.725	Positioning on X axis: X1.725

N102	Block #: 102
G1	Positioning: Linear
X1.875	Positioning on X axis: X1.875
Z-.025	Positioning on Z axis: Z-.025
F.005	Feedrate: .005 IPR

N104	Block #: 104
Z-.75	Positioning on Z axis: Z-.75

N106	Block #: 106
X1.95	Positioning on X axis: X1.95

N108	Block #: 108
X2.	Positioning on X axis: X2.
Z-.775	Positioning on Z axis: Z-.775

N110	Block #: 110
Z-1.25	Positioning on Z axis: Z-1.25

N112	Block #: 112
X2.7	Positioning on X axis: X2.7

N114	Block #: 114
X2.85	Positioning on X axis: X2.85
Z-1.325	Positioning on Z axis: Z-1.325

N116	Block #: 116
G0	Positioning: Rapid
Z.05	Positioning on Z axis: Z.05

N118	Block #: 118
X5.	Positioning on X axis: X5.
Z5.	Positioning on Z axis: Z5.
M9	Coolant: Off

N120	Block #: 120
T3	Tool select #: 3: 55° R/H turning tool
00	Compensation: Cancel
M5	Spindle: Stop

N122	Block #: 122
M1	Program: Optional stop

N124	Block #: 124
G50	Spindle: Maximum RPM
S3000	3000 RPM

N126	Block #: 126
T4	Tool select #: 4: 55° R/H boring tool
04	Compensation: Tool offsets # 04

N128	Block #: 128
G96	Spindle: Constant surface speed
S95	Spindle: Speed 95 FPM
M4	Spindle: Counter-Clockwise

N130	Block #: 130
G54	Part zero selection: One
X1.775	Positioning on X axis: X1.775
Z.05	Positioning on Z axis: Z.05
M8	Coolant: On

N132	Block #: 132
G1	Positioning: Linear
X1.625	Positioning on X axis: X1.625
Z-.025	Positioning on Z axis: Z-.025
F.001	Feedrate: .001 IPR

N134	Block #: 134
Z-.875	Positioning on Z axis: Z-.875

N136	Block #: 136
X1.3	Positioning on X axis: X1.3

N138	Block #: 138
X1.25	Positioning on X axis: X1.25
Z-.9	Positioning on Z axis: Z-.9

N140	Block #: 140
Z-1.25	Positioning on Z axis: Z-1.25

N142	Block #: 142
X.65	Positioning on X axis: X.65

N144	Block #: 144
G0	Positioning: Rapid
Z.05	Positioning on Z axis: Z.05

N146	Block #: 146
X5.	Positioning on X axis: X5.
Z5.	Positioning on Z axis: Z5.
M9	Coolant: Off

N148	Block #: 148
T4	Tool select #: 4: 55° R/H boring tool
00	Compensation: Cancel
M5	Spindle: Stop

N150	Block #: 150
G28	Reference position: Return to
U0.	Positioning on X axis from: U0.
W0.	Positioning on Z axis from: W0.

N152	Block #: 152
M30	Program: End