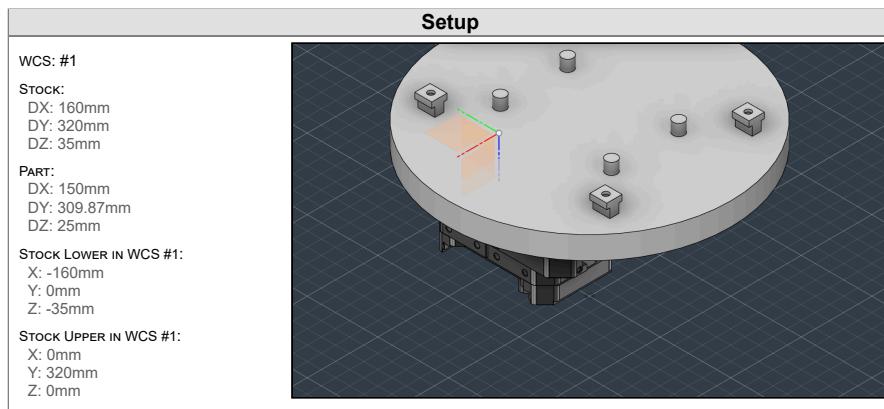


# Setup Sheet for Program 1001

JOB DESCRIPTION: Setup1  
 DOCUMENT PATH: FINITO v1



**Total**

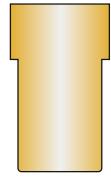
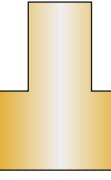
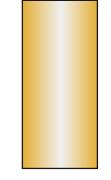
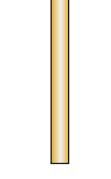
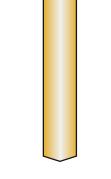
NUMBER OF OPERATIONS: 15
NUMBER OF TOOLS: 11
TOOLS: T1 T2 T3 T4 T5 T10 T11 T12 T13 T14 T17
MAXIMUM Z: 15mm
MINIMUM Z: -17.5mm
MAXIMUM FEEDRATE: 2270mm/min
MAXIMUM SPINDLE SPEED: 8000rpm
CUTTING DISTANCE: 22751.04mm
RAPID DISTANCE: 10617.6mm
ESTIMATED CYCLE TIME: 31m:8s

**Tools**

<b>T1 D1 L1</b> TYPE: face mill DIAMETER: 38.1mm CORNER RADIUS: 1.6mm LENGTH: 76.2mm FLUTES: 5 DESCRIPTION: 1_Fresa per sfacciatura sgrossatura VENDOR: sandvik PRODUCT: <a href="#">A490-038C5-08H con inserto 490R-08T316M-PH 4330</a>	MINIMUM Z: -4.6mm MAXIMUM FEED: 2214mm/min MAXIMUM SPINDLE SPEED: 2160rpm CUTTING DISTANCE: 1865.63mm RAPID DISTANCE: 183.94mm ESTIMATED CYCLE TIME: 55s (2.9%)	
<b>T2 D2 L2</b> TYPE: flat end mill DIAMETER: 6mm LENGTH: 57mm FLUTES: 5 DESCRIPTION: finitura_contorno VENDOR: sandvik PRODUCT: <a href="#">2N342-0600-PC 1730</a>	MINIMUM Z: -17.5mm MAXIMUM FEED: 1074mm/min MAXIMUM SPINDLE SPEED: 7160rpm CUTTING DISTANCE: 961.08mm RAPID DISTANCE: 231.19mm ESTIMATED CYCLE TIME: 1m:2s (3.3%)	
<b>T3 D3 L3</b> TYPE: flat end mill DIAMETER: 38.1mm LENGTH: 85.34mm FLUTES: 4 DESCRIPTION: contornatura_sgrossatura VENDOR: sandvik PRODUCT: <a href="#">RA390-038M32-17H con inserto R390-17 04 08M-PM 4330</a>	MINIMUM Z: -17.5mm MAXIMUM FEED: 1360.72mm/min MAXIMUM SPINDLE SPEED: 2330rpm CUTTING DISTANCE: 3060.66mm RAPID DISTANCE: 1766.41mm ESTIMATED CYCLE TIME: 2m:37s (8.4%)	
<b>T4 D4 L4</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 0.2mm LENGTH: 45mm FLUTES: 5 DESCRIPTION: Sgrossatura tasche 1 VENDOR: mitsubishi PRODUCT: <a href="#">1K325-0800-XB 1730</a>	MINIMUM Z: -15.8mm MAXIMUM FEED: 2170mm/min MAXIMUM SPINDLE SPEED: 2170rpm CUTTING DISTANCE: 3992.66mm RAPID DISTANCE: 1712.62mm ESTIMATED CYCLE TIME: 3m:44s (12%)	
<b>T5 D5 L5</b> TYPE: drill DIAMETER: 10mm TIP ANGLE: 145° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punte per prefare tasche grandi VENDOR: mitsubishi PRODUCT: <a href="#">MPS1-1000-PC</a>	MINIMUM Z: -16mm MAXIMUM FEED: 420.12mm/min MAXIMUM SPINDLE SPEED: 3501rpm CUTTING DISTANCE: 160mm RAPID DISTANCE: 850.77mm ESTIMATED CYCLE TIME: 33s (1.8%)	
<b>T10 D10 L10</b> TYPE: face mill DIAMETER: 63mm CORNER RADIUS: 1.5mm LENGTH: 85mm FLUTES: 4 DESCRIPTION: 11_facciatura_finitura VENDOR: mitsubishi PRODUCT: <a href="#">ASX445R634S32 con inserto SOET12T308PEER-JL grado VP15TF</a>	MINIMUM Z: -5mm MAXIMUM FEED: 481mm/min MAXIMUM SPINDLE SPEED: 1203rpm CUTTING DISTANCE: 1594.75mm RAPID DISTANCE: 187.7mm ESTIMATED CYCLE TIME: 3m:22s (10.8%)	

<b>T11 D11 L11</b> TYPE: drill DIAMETER: 5mm TIP ANGLE: 140° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punta per Preforo tasca piccola PRODUCT: <a href="#">MMS0500X3DB</a>	MINIMUM Z: -16mm MAXIMUM FEED: 456mm/min MAXIMUM SPINDLE SPEED: 3800rpm CUTTING DISTANCE: 32mm RAPID DISTANCE: 297mm ESTIMATED CYCLE TIME: 8s (0.4%)	
<b>T12 D12 L12</b> TYPE: flat end mill DIAMETER: 4mm LENGTH: 40mm FLUTES: 5 DESCRIPTION: Fresa per sgrossatura (tasca piccola) e per finitura totale tasche PRODUCT: <a href="#">1K334-0400-050-XC 1730</a>	MINIMUM Z: -16mm MAXIMUM FEED: 2270mm/min MAXIMUM SPINDLE SPEED: 7190rpm CUTTING DISTANCE: 6696.03mm RAPID DISTANCE: 3703.53mm ESTIMATED CYCLE TIME: 10m:33s (33.9%)	
<b>T13 D13 L13</b> TYPE: flat end mill DIAMETER: 32mm LENGTH: 100mm FLUTES: 4 DESCRIPTION: fresa per elicoidale VENDOR: mitsubishi PRODUCT: <a href="#">AQXR324SA32S con inserto QOMT1651R-M2 con grado MP6130</a>	MINIMUM Z: -16.5mm MAXIMUM FEED: 250mm/min MAXIMUM SPINDLE SPEED: 1393rpm CUTTING DISTANCE: 670.76mm RAPID DISTANCE: 295.97mm ESTIMATED CYCLE TIME: 2m:45s (8.8%)	
<b>T14 D14 L14</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 1mm LENGTH: 50mm FLUTES: 4 DESCRIPTION: 54_finitura_fondo_tondo VENDOR: mitsubishi PRODUCT: <a href="#">MPMHVRBD0800R100</a>	MINIMUM Z: -16mm MAXIMUM FEED: 1999.2mm/min MAXIMUM SPINDLE SPEED: 6000rpm CUTTING DISTANCE: 1642.96mm RAPID DISTANCE: 956.73mm ESTIMATED CYCLE TIME: 1m:20s (4.3%)	
<b>T17 D17 L17</b> TYPE: ball end mill DIAMETER: 8mm CORNER RADIUS: 4mm LENGTH: 20mm FLUTES: 4 DESCRIPTION: nervatura tonda VENDOR: mitsubishi PRODUCT: <a href="#">fresa a punta tonda VQ4SVBR04000</a>	MINIMUM Z: -16.44mm MAXIMUM FEED: 1900mm/min MAXIMUM SPINDLE SPEED: 8000rpm CUTTING DISTANCE: 2074.5mm RAPID DISTANCE: 431.73mm ESTIMATED CYCLE TIME: 1m:11s (3.8%)	

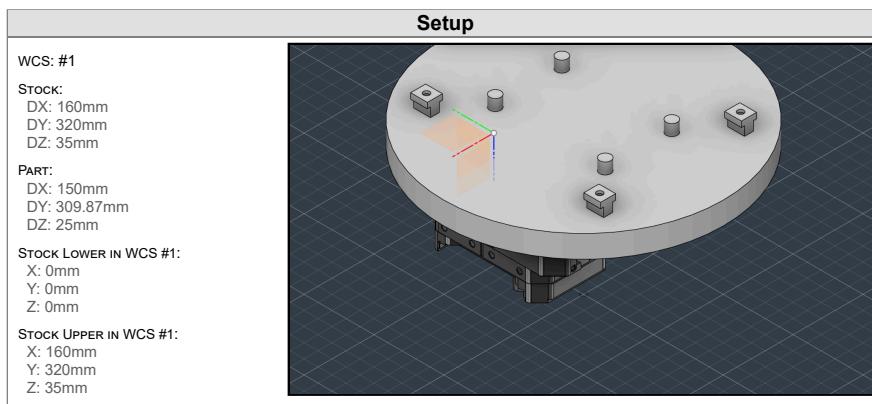
## Operations

Operation 1/15  DESCRIPTION: 10_sfacciatura_sgrossatura STRATEGY: Facing WCS: #1 TOLERANCE: 0.01mm MAXIMUM STEPOVER: 31mm	<b>T1 D1 L1</b>  MAXIMUM Z: 15mm MINIMUM Z: -4.6mm MAXIMUM SPINDLE SPEED: 2160rpm MAXIMUM FEEDRATE: 2214mm/min CUTTING DISTANCE: 1865.63mm RAPID DISTANCE: 183.94mm ESTIMATED CYCLE TIME: 55s (2.9%)  COOLANT: Flood	<b>T10 D10 L10</b>  TYPE: face mill DIAMETER: 38.1mm CORNER RADIUS: 1.6mm LENGTH: 76.2mm FLUTES: 5 DESCRIPTION: 1_Fresa per sfacciatura sgrossatura VENDOR: sandvik PRODUCT: <a href="#">A490-038C5-08H con inserto 490R-08T316M-PH 4330</a>	
Operation 2/15  DESCRIPTION: 20_sfacciatura_finitura STRATEGY: Facing WCS: #1 TOLERANCE: 0.01mm MAXIMUM STEPOVER: 45mm	  MAXIMUM Z: 15mm MINIMUM Z: -5mm MAXIMUM SPINDLE SPEED: 1203rpm MAXIMUM FEEDRATE: 481mm/min CUTTING DISTANCE: 1594.75mm RAPID DISTANCE: 187.7mm ESTIMATED CYCLE TIME: 3m:22s (10.8%)  COOLANT: Flood	<b>T10 D10 L10</b>  TYPE: face mill DIAMETER: 63mm CORNER RADIUS: 1.5mm LENGTH: 85mm FLUTES: 4 DESCRIPTION: 11_facciatura_finitura VENDOR: mitsubishi PRODUCT: <a href="#">ASX445R634S32 con inserto SOET12T308PEER-JL grado VP15TF</a>	
Operation 3/15  DESCRIPTION: 30_contornatura_sgrossatura STRATEGY: Adaptive 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0.5mm/0mm MAXIMUM STEPDOWN: 11.77mm OPTIMAL LOAD: 25mm LOAD DEVIATION: 2.5mm	  MAXIMUM Z: 15mm MINIMUM Z: -17.5mm MAXIMUM SPINDLE SPEED: 2330rpm MAXIMUM FEEDRATE: 1360.72mm/min CUTTING DISTANCE: 3060.66mm RAPID DISTANCE: 1766.41mm ESTIMATED CYCLE TIME: 2m:37s (8.4%)  COOLANT: Flood	<b>T3 D3 L3</b>  TYPE: flat end mill DIAMETER: 38.1mm LENGTH: 85.34mm FLUTES: 4 DESCRIPTION: contornatura_sgrossatura VENDOR: sandvik PRODUCT: <a href="#">RA390-038M32-17H con inserto R390-17 04 08M-PM 4330</a>	
Operation 4/15  DESCRIPTION: 40_Contornatura_finitura STRATEGY: Contour 2D WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm MAXIMUM STEPOVER: 5.7mm	  MAXIMUM Z: 15mm MINIMUM Z: -17.5mm MAXIMUM SPINDLE SPEED: 7160rpm MAXIMUM FEEDRATE: 1074mm/min CUTTING DISTANCE: 961.08mm RAPID DISTANCE: 231.19mm ESTIMATED CYCLE TIME: 1m:2s (3.3%)  COOLANT: Flood	<b>T2 D2 L2</b>  TYPE: flat end mill DIAMETER: 6mm LENGTH: 57mm FLUTES: 5 DESCRIPTION: finitura_contorno VENDOR: sandvik PRODUCT: <a href="#">2N342-0600-PC 1730</a>	
Operation 5/15  DESCRIPTION: 50_preforatura_Tasche_grandi STRATEGY: Drilling WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm	  MAXIMUM Z: 15mm MINIMUM Z: -16mm MAXIMUM SPINDLE SPEED: 3501rpm MAXIMUM FEEDRATE: 420.12mm/min CUTTING DISTANCE: 160mm RAPID DISTANCE: 850.77mm ESTIMATED CYCLE TIME: 33s (1.8%)  COOLANT: Flood	<b>T5 D5 L5</b>  TYPE: drill DIAMETER: 10mm TIP ANGLE: 145° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punte per preforare tasche grandi VENDOR: mitsubishi PRODUCT: <a href="#">MPS1-1000-PC</a>	

Operation 6/15  DESCRIPTION: 60_Preforatura_tasche_piccole STRATEGY: Drilling WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm	MAXIMUM Z: 15mm MINIMUM Z: -16mm MAXIMUM SPINDLE SPEED: 3800rpm MAXIMUM FEEDRATE: 456mm/min CUTTING DISTANCE: 32mm RAPID DISTANCE: 297mm ESTIMATED CYCLE TIME: 8s (0.4%) COOLANT: Flood	<b>T11 D11 L11</b> TYPE: drill DIAMETER: 5mm TIP ANGLE: 140° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punta per Preforo tasca piccola PRODUCT: <a href="#">MMS0500X3DB</a>	
Operation 7/15  DESCRIPTION: 70_tasche_grandi_interne_sgrossatura STRATEGY: Pocket 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0.2mm MAXIMUM STEPDOWN: 6mm MAXIMUM STEPOVER: 4.8mm	MAXIMUM Z: 15mm MINIMUM Z: -15.8mm MAXIMUM SPINDLE SPEED: 2170rpm MAXIMUM FEEDRATE: 2170mm/min CUTTING DISTANCE: 2619.72mm RAPID DISTANCE: 1111.95mm ESTIMATED CYCLE TIME: 1m:39s (5.3%) COOLANT: Flood	<b>T4 D4 L4</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 0.2mm LENGTH: 45mm FLUTES: 5 DESCRIPTION: Sgrossatura tasche 1 PRODUCT: <a href="#">1K325-0800-XB 1730</a>	
Operation 8/15  DESCRIPTION: 80_tasche_esterne_sgrossatura STRATEGY: Pocket 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0mm/0.2mm MAXIMUM STEPDOWN: 6mm MAXIMUM STEPOVER: 4.8mm	MAXIMUM Z: 15mm MINIMUM Z: -15.8mm MAXIMUM SPINDLE SPEED: 2170rpm MAXIMUM FEEDRATE: 2170mm/min CUTTING DISTANCE: 1372.93mm RAPID DISTANCE: 600.68mm ESTIMATED CYCLE TIME: 2m:4s (6.7%) COOLANT: Flood	<b>T4 D4 L4</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 0.2mm LENGTH: 45mm FLUTES: 5 DESCRIPTION: Sgrossatura tasche 1 PRODUCT: <a href="#">1K325-0800-XB 1730</a>	
Operation 9/15  DESCRIPTION: 90_tasca_piccola_sgrossatura STRATEGY: Pocket 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0.2mm MAXIMUM STEPDOWN: 6mm MAXIMUM STEPOVER: 2.4mm	MAXIMUM Z: 15mm MINIMUM Z: -15.8mm MAXIMUM SPINDLE SPEED: 4540rpm MAXIMUM FEEDRATE: 2270mm/min CUTTING DISTANCE: 293.29mm RAPID DISTANCE: 320.2mm ESTIMATED CYCLE TIME: 12s (0.6%) COOLANT: Flood	<b>T12 D12 L12</b> TYPE: flat end mill DIAMETER: 4mm LENGTH: 40mm FLUTES: 5 DESCRIPTION: Fresa per sgrossatura (tasca piccola) e per finitura totale tasche PRODUCT: <a href="#">1K334-0400-050-XC 1730</a>	
Operation 10/15  DESCRIPTION: 100_tasche_laterali_finitura STRATEGY: Contour 2D WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm MAXIMUM STEPDOWN: 6mm MAXIMUM STEPOVER: 3.8mm	MAXIMUM Z: 15mm MINIMUM Z: -15.8mm MAXIMUM SPINDLE SPEED: 4510rpm MAXIMUM FEEDRATE: 369.82mm/min CUTTING DISTANCE: 2460mm RAPID DISTANCE: 1288.94mm ESTIMATED CYCLE TIME: 7m:0s (22.5%) COOLANT: Flood	<b>T12 D12 L12</b> TYPE: flat end mill DIAMETER: 4mm LENGTH: 40mm FLUTES: 5 DESCRIPTION: Fresa per sgrossatura (tasca piccola) e per finitura totale tasche PRODUCT: <a href="#">1K334-0400-050-XC 1730</a>	
Operation 11/15  DESCRIPTION: 110_tasche_fondo_finitura STRATEGY: Pocket 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0mm MAXIMUM STEPOVER: 2.4mm	MAXIMUM Z: 15mm MINIMUM Z: -16mm MAXIMUM SPINDLE SPEED: 7190rpm MAXIMUM FEEDRATE: 2106.67mm/min CUTTING DISTANCE: 3942.74mm RAPID DISTANCE: 2094.39mm ESTIMATED CYCLE TIME: 3m:22s (10.8%) COOLANT: Flood	<b>T12 D12 L12</b> TYPE: flat end mill DIAMETER: 4mm LENGTH: 40mm FLUTES: 5 DESCRIPTION: Fresa per sgrossatura (tasca piccola) e per finitura totale tasche PRODUCT: <a href="#">1K334-0400-050-XC 1730</a>	
Operation 12/15  DESCRIPTION: 120_tasche_laterali_con_smusso_finitura STRATEGY: Contour 2D WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm MAXIMUM STEPOVER: 5.7mm	MAXIMUM Z: 15mm MINIMUM Z: -16mm MAXIMUM SPINDLE SPEED: 6000rpm MAXIMUM FEEDRATE: 1999.2mm/min CUTTING DISTANCE: 369.38mm RAPID DISTANCE: 536.63mm ESTIMATED CYCLE TIME: 36s (1.9%) COOLANT: Flood	<b>T14 D14 L14</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 1mm LENGTH: 50mm FLUTES: 4 DESCRIPTION: 54_finitura_fondo_tondo VENDOR: mitsubishi PRODUCT: <a href="#">MPMHVRBD0800R100</a>	
Operation 13/15  DESCRIPTION: 130_Fresatura_elicoidale_foro_centrale_sgrossatura STRATEGY: Bore WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0.2mm	MAXIMUM Z: 15mm MINIMUM Z: -16.5mm MAXIMUM SPINDLE SPEED: 1393rpm MAXIMUM FEEDRATE: 250mm/min CUTTING DISTANCE: 670.76mm RAPID DISTANCE: 295.97mm ESTIMATED CYCLE TIME: 2m:45s (8.8%) COOLANT: Flood	<b>T13 D13 L13</b> TYPE: flat end mill DIAMETER: 32mm LENGTH: 100mm FLUTES: 4 DESCRIPTION: fresa per elicoidale VENDOR: mitsubishi PRODUCT: <a href="#">AQXR324SA32S con inserto QOMT1651R-M2 con grado MP6130</a>	
Operation 14/15  DESCRIPTION: 140_nervature_tonde_sgrossatura STRATEGY: Parallel WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0.2mm MAXIMUM STEPOVER: 0.2mm	MAXIMUM Z: 15mm MINIMUM Z: -12.3mm MAXIMUM SPINDLE SPEED: 6000rpm MAXIMUM FEEDRATE: 1999.2mm/min CUTTING DISTANCE: 1273.58mm RAPID DISTANCE: 420.1mm ESTIMATED CYCLE TIME: 44s (2.4%) COOLANT: Flood	<b>T14 D14 L14</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 1mm LENGTH: 50mm FLUTES: 4 DESCRIPTION: 54_finitura_fondo_tondo VENDOR: mitsubishi PRODUCT: <a href="#">MPMHVRBD0800R100</a>	
Operation 15/15  DESCRIPTION: 150_nervature_tonde_finitura STRATEGY: Parallel WCS: #1 TOLERANCE: 0.01mm STOCK TO LEAVE: 0mm MAXIMUM STEPOVER: 0.1mm	MAXIMUM Z: 15mm MINIMUM Z: -16.44mm MAXIMUM SPINDLE SPEED: 8000rpm MAXIMUM FEEDRATE: 1900mm/min CUTTING DISTANCE: 2074.5mm RAPID DISTANCE: 431.73mm ESTIMATED CYCLE TIME: 1m:11s (3.8%) COOLANT: Flood	<b>T17 D17 L17</b> TYPE: ball end mill DIAMETER: 8mm CORNER RADIUS: 4mm LENGTH: 20mm FLUTES: 4 DESCRIPTION: nervatura tonda VENDOR: mitsubishi PRODUCT: <a href="#">fresa a punta tonda VQ4SVBR04000</a>	

## Setup Sheet for Program 1002

JOB DESCRIPTION: Setup2  
 DOCUMENT PATH: FINITO v1

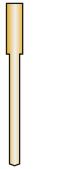
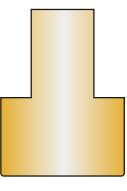
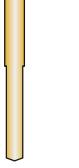
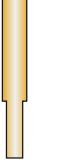
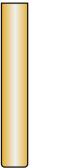
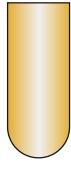


**Total**

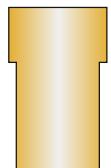
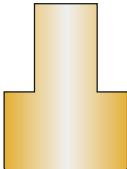
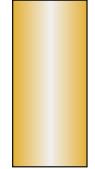
NUMBER OF OPERATIONS: 17
NUMBER OF TOOLS: 13
TOOLS: T1 T2 T3 T4 T5 T7 T8 T10 T11 T12 T13 T14 T17
MAXIMUM Z: 51mm
MINIMUM Z: 5mm
MAXIMUM FEEDRATE: 2270mm/min
MAXIMUM SPINDLE SPEED: 8000rpm
CUTTING DISTANCE: 23974.55mm
RAPID DISTANCE: 13561.49mm
ESTIMATED CYCLE TIME: 38m:42s

**Tools**

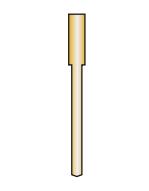
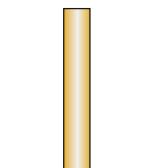
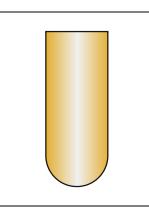
<b>T1 D1 L1</b> TYPE: face mill DIAMETER: 38.1mm CORNER RADIUS: 1.6mm LENGTH: 76.2mm FLUTES: 5 DESCRIPTION: 1_Fresa per sfacciatura sgrossatura VENDOR: sandvik PRODUCT: <a href="#">A490-038C5-08H con inserto 490R-08T316M-PH 4330</a>	MINIMUM Z: 30.4mm MAXIMUM FEED: 2214mm/min MAXIMUM SPINDLE SPEED: 2160rpm CUTTING DISTANCE: 1865.63mm RAPID DISTANCE: 329.22mm ESTIMATED CYCLE TIME: 56s (2.4%)	
<b>T2 D2 L2</b> TYPE: flat end mill DIAMETER: 6mm LENGTH: 57mm FLUTES: 5 DESCRIPTION: finitura_contorno VENDOR: sandvik PRODUCT: <a href="#">ZN342-0600-PC_1730</a>	MINIMUM Z: 17.2mm MAXIMUM FEED: 1074mm/min MAXIMUM SPINDLE SPEED: 7160rpm CUTTING DISTANCE: 961.68mm RAPID DISTANCE: 230.96mm ESTIMATED CYCLE TIME: 1m:2s (2.7%)	
<b>T3 D3 L3</b> TYPE: flat end mill DIAMETER: 38.1mm LENGTH: 85.34mm FLUTES: 4 DESCRIPTION: contornatura_sgrossatura VENDOR: sandvik PRODUCT: <a href="#">RA390-038M32-17H con inserto R390-17_04_08M-PM 4330</a>	MINIMUM Z: 17.2mm MAXIMUM FEED: 1360.72mm/min MAXIMUM SPINDLE SPEED: 2330rpm CUTTING DISTANCE: 3837.73mm RAPID DISTANCE: 384.86mm ESTIMATED CYCLE TIME: 2m:56s (7.6%)	
<b>T4 D4 L4</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 0.2mm LENGTH: 45mm FLUTES: 5 DESCRIPTION: Sgrossatura tasche 1 VENDOR: mitsubishi PRODUCT: <a href="#">IK325-0800-XB_1730</a>	MINIMUM Z: 19.2mm MAXIMUM FEED: 2170mm/min MAXIMUM SPINDLE SPEED: 2170rpm CUTTING DISTANCE: 3820.5mm RAPID DISTANCE: 1929.75mm ESTIMATED CYCLE TIME: 3m:28s (9%)	
<b>T5 D5 L5</b> TYPE: drill DIAMETER: 10mm TIP ANGLE: 145° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punte per preforare tasche grandi VENDOR: mitsubishi PRODUCT: <a href="#">MPS1-1000-PC</a>	MINIMUM Z: 19mm MAXIMUM FEED: 420.12mm/min MAXIMUM SPINDLE SPEED: 3501rpm CUTTING DISTANCE: 160mm RAPID DISTANCE: 850.77mm ESTIMATED CYCLE TIME: 33s (1.4%)	
<b>T7 D7 L7</b> TYPE: boring bar DIAMETER: 40mm LENGTH: 48mm FLUTES: 1 DESCRIPTION: Alesa per foro centrale H8 PRODUCT: <a href="#">825-825-45TC09-C345TC09-C3</a>	MINIMUM Z: 5mm MAXIMUM FEED: 146.85mm/min MAXIMUM SPINDLE SPEED: 979rpm CUTTING DISTANCE: 60mm RAPID DISTANCE: 325mm ESTIMATED CYCLE TIME: 28s (1.2%)	

<b>T8 D8 L8</b> TYPE: drill DIAMETER: 2.5mm TIP ANGLE: 140° LENGTH: 40mm FLUTES: 2 DESCRIPTION: Punta per fori piccoli PRODUCT: <a href="#">862.1-2500-225A0-GM X2BL</a>	MINIMUM Z: 14mm MAXIMUM FEED: 112.28mm/min MAXIMUM SPINDLE SPEED: 4010rpm CUTTING DISTANCE: 600mm RAPID DISTANCE: 3606.99mm ESTIMATED CYCLE TIME: 6m:4s (15.7%)	
<b>T10 D10 L10</b> TYPE: face mill DIAMETER: 63mm CORNER RADIUS: 1.5mm LENGTH: 85mm FLUTES: 4 DESCRIPTION: 11_facciatura_finitura VENDOR: mitsubishi PRODUCT: <a href="#">ASX445R634S32 con inserto SOET12T308PEER-JL grado VP15TF</a>	MINIMUM Z: 30mm MAXIMUM FEED: 481mm/min MAXIMUM SPINDLE SPEED: 1203rpm CUTTING DISTANCE: 1594.75mm RAPID DISTANCE: 187.7mm ESTIMATED CYCLE TIME: 3m:22s (8.7%)	
<b>T11 D11 L11</b> TYPE: drill DIAMETER: 5mm TIP ANGLE: 140° LENGTH: 50mm FLUTES: 2 DESCRIPTION: Punta per Preforo tasca piccola PRODUCT: <a href="#">MMS0500X3DB</a>	MINIMUM Z: 19mm MAXIMUM FEED: 456mm/min MAXIMUM SPINDLE SPEED: 3800rpm CUTTING DISTANCE: 32mm RAPID DISTANCE: 297mm ESTIMATED CYCLE TIME: 8s (0.3%)	
<b>T12 D12 L12</b> TYPE: flat end mill DIAMETER: 4mm LENGTH: 40mm FLUTES: 5 DESCRIPTION: Fresa per sgrossatura (tasca piccola) e per finitura totale tasche PRODUCT: <a href="#">1K334-0400-050-XC 1730</a>	MINIMUM Z: 19mm MAXIMUM FEED: 2270mm/min MAXIMUM SPINDLE SPEED: 7190rpm CUTTING DISTANCE: 6695.56mm RAPID DISTANCE: 3648.36mm ESTIMATED CYCLE TIME: 10m:33s (27.3%)	
<b>T13 D13 L13</b> TYPE: flat end mill DIAMETER: 32mm LENGTH: 100mm FLUTES: 4 DESCRIPTION: fresa per elicoidale VENDOR: mitsubishi PRODUCT: <a href="#">AQXR324SA32S con inserto QOMT1651R-M2 con grado MP6130</a>	MINIMUM Z: 16mm MAXIMUM FEED: 250mm/min MAXIMUM SPINDLE SPEED: 1393rpm CUTTING DISTANCE: 797.84mm RAPID DISTANCE: 305.41mm ESTIMATED CYCLE TIME: 3m:15s (8.4%)	
<b>T14 D14 L14</b> TYPE: bullnose end mill DIAMETER: 8mm CORNER RADIUS: 1mm LENGTH: 50mm FLUTES: 4 DESCRIPTION: 54_finitura_fondo_tondo VENDOR: mitsubishi PRODUCT: <a href="#">MPMHVRBD0800R100</a>	MINIMUM Z: 19mm MAXIMUM FEED: 1999.2mm/min MAXIMUM SPINDLE SPEED: 6000rpm CUTTING DISTANCE: 1474.37mm RAPID DISTANCE: 1033.74mm ESTIMATED CYCLE TIME: 1m:16s (3.3%)	
<b>T17 D17 L17</b> TYPE: ball end mill DIAMETER: 8mm CORNER RADIUS: 4mm LENGTH: 20mm FLUTES: 4 DESCRIPTION: nervatura tonda VENDOR: mitsubishi PRODUCT: <a href="#">fresa a punta tonda VQ4SVBR04000</a>	MINIMUM Z: 18.56mm MAXIMUM FEED: 1900mm/min MAXIMUM SPINDLE SPEED: 8000rpm CUTTING DISTANCE: 2074.5mm RAPID DISTANCE: 431.73mm ESTIMATED CYCLE TIME: 1m:11s (3.1%)	

## Operations

Operation 1/17 DESCRIPTION: 160_Sfaccatura Sgrossatura (2) STRATEGY: Facing WCS: #1 TOLERANCE: 0.01mm MAXIMUM STEPOVER: 31mm	MAXIMUM Z: 50mm MINIMUM Z: 30.4mm MAXIMUM SPINDLE SPEED: 2160rpm MAXIMUM FEEDRATE: 2214mm/min CUTTING DISTANCE: 1865.63mm RAPID DISTANCE: 329.22mm ESTIMATED CYCLE TIME: 56s (2.4%) COOLANT: Flood	<b>T1 D1 L1</b> TYPE: face mill DIAMETER: 38.1mm CORNER RADIUS: 1.6mm LENGTH: 76.2mm FLUTES: 5 DESCRIPTION: 1_Fresa per sfacciatuura sgrossatura VENDOR: sandvik PRODUCT: <a href="#">A490-038C5-08H con inserto 490R-08T316M-PH 4330</a>	
Operation 2/17 DESCRIPTION: 170_sfaccatura_finitura STRATEGY: Facing WCS: #1 TOLERANCE: 0.01mm MAXIMUM STEPDOWN: 45mm	MAXIMUM Z: 50mm MINIMUM Z: 30mm MAXIMUM SPINDLE SPEED: 1203rpm MAXIMUM FEEDRATE: 481mm/min CUTTING DISTANCE: 1594.75mm RAPID DISTANCE: 187.7mm ESTIMATED CYCLE TIME: 3m:22s (8.7%) COOLANT: Flood	<b>T10 D10 L10</b> TYPE: face mill DIAMETER: 63mm CORNER RADIUS: 1.5mm LENGTH: 85mm FLUTES: 4 DESCRIPTION: 11_facciatura_finitura VENDOR: mitsubishi PRODUCT: <a href="#">ASX445R634S32 con inserto SOET12T308PEER-JL grado VP15TF</a>	
Operation 3/17 DESCRIPTION: 180_contornatura_sgrosssatura STRATEGY: Adaptive 2D WCS: #1 TOLERANCE: 0.1mm STOCK TO LEAVE: 0.5mm/0mm MAXIMUM STEPDOWN: 11.77mm OPTIMAL LOAD: 25mm LOAD DEVIATION: 2.5mm	MAXIMUM Z: 50mm MINIMUM Z: 17.2mm MAXIMUM SPINDLE SPEED: 2330rpm MAXIMUM FEEDRATE: 1360.72mm/min CUTTING DISTANCE: 3837.73mm RAPID DISTANCE: 384.86mm ESTIMATED CYCLE TIME: 2m:56s (7.6%) COOLANT: Flood	<b>T3 D3 L3</b> TYPE: flat end mill DIAMETER: 38.1mm LENGTH: 85.34mm FLUTES: 4 DESCRIPTION: contornatura_sgrosssatura VENDOR: sandvik PRODUCT: <a href="#">RA390-038M32-17H con inserto R390-17 04 08M-PM 4330</a>	

Operation 4/17 <b>DESCRIPTION:</b> 190_contornatura_finitura <b>STRATEGY:</b> Contour 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPOVER:</b> 5.7mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 17.2mm <b>MAXIMUM SPINDLE SPEED:</b> 7160rpm <b>MAXIMUM FEEDRATE:</b> 1074mm/min <b>CUTTING DISTANCE:</b> 961.68mm <b>RAPID DISTANCE:</b> 230.96mm <b>ESTIMATED CYCLE TIME:</b> 1m:2s (2.7%) <b>COOLANT:</b> Flood	<b>T2 D2 L2</b> <b>TYPE:</b> flat end mill <b>DIAMETER:</b> 6mm <b>LENGTH:</b> 57mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> finitura_contorno <b>VENDOR:</b> sandvik <b>PRODUCT:</b> <a href="#">2N342-0600-PC 1730</a>	
Operation 5/17 <b>DESCRIPTION:</b> 200_preFORATURA_Tasche_grandi <b>STRATEGY:</b> Drilling <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19mm <b>MAXIMUM SPINDLE SPEED:</b> 3501rpm <b>MAXIMUM FEEDRATE:</b> 420.12mm/min <b>CUTTING DISTANCE:</b> 160mm <b>RAPID DISTANCE:</b> 850.77mm <b>ESTIMATED CYCLE TIME:</b> 33s (1.4%) <b>COOLANT:</b> Flood	<b>T5 D5 L5</b> <b>TYPE:</b> drill <b>DIAMETER:</b> 10mm <b>TIP ANGLE:</b> 145° <b>LENGTH:</b> 50mm <b>FLUTES:</b> 2 <b>DESCRIPTION:</b> Punte per preforare tasche grandi <b>VENDOR:</b> mistubishi <b>PRODUCT:</b> <a href="#">MPS1-1000-PC</a>	
Operation 6/17 <b>DESCRIPTION:</b> 210_Preforatura_tasche_piccole <b>STRATEGY:</b> Drilling <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19mm <b>MAXIMUM SPINDLE SPEED:</b> 3800rpm <b>MAXIMUM FEEDRATE:</b> 456mm/min <b>CUTTING DISTANCE:</b> 32mm <b>RAPID DISTANCE:</b> 297mm <b>ESTIMATED CYCLE TIME:</b> 8s (0.3%) <b>COOLANT:</b> Flood	<b>T11 D11 L11</b> <b>TYPE:</b> drill <b>DIAMETER:</b> 5mm <b>TIP ANGLE:</b> 140° <b>LENGTH:</b> 50mm <b>FLUTES:</b> 2 <b>DESCRIPTION:</b> Punta per Preforo tasca piccola <b>PRODUCT:</b> <a href="#">MMS0500X3DB</a>	
Operation 7/17 <b>DESCRIPTION:</b> 220_tasche_grandi_interne_sgrossatura <b>STRATEGY:</b> Pocket 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.1mm <b>STOCK TO LEAVE:</b> 0.2mm <b>MAXIMUM STEPDOWN:</b> 6mm <b>MAXIMUM STEPOVER:</b> 4.8mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19.2mm <b>MAXIMUM SPINDLE SPEED:</b> 2170rpm <b>MAXIMUM FEEDRATE:</b> 2170mm/min <b>CUTTING DISTANCE:</b> 2447.72mm <b>RAPID DISTANCE:</b> 1149.63mm <b>ESTIMATED CYCLE TIME:</b> 1m:21s (3.5%) <b>COOLANT:</b> Flood	<b>T4 D4 L4</b> <b>TYPE:</b> bullnose end mill <b>DIAMETER:</b> 8mm <b>CORNER RADIUS:</b> 0.2mm <b>LENGTH:</b> 45mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> Sgrossatura tasche 1 <b>PRODUCT:</b> <a href="#">1K325-0800-XB 1730</a>	
Operation 8/17 <b>DESCRIPTION:</b> 230_tasche_esterne_sgrossatura <b>STRATEGY:</b> Pocket 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.1mm <b>STOCK TO LEAVE:</b> 0mm/0.2mm <b>MAXIMUM STEPDOWN:</b> 6mm <b>MAXIMUM STEPOVER:</b> 4.8mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19.2mm <b>MAXIMUM SPINDLE SPEED:</b> 2170rpm <b>MAXIMUM FEEDRATE:</b> 2170mm/min <b>CUTTING DISTANCE:</b> 1372.78mm <b>RAPID DISTANCE:</b> 780.11mm <b>ESTIMATED CYCLE TIME:</b> 2m:7s (5.5%) <b>COOLANT:</b> Flood	<b>T4 D4 L4</b> <b>TYPE:</b> bullnose end mill <b>DIAMETER:</b> 8mm <b>CORNER RADIUS:</b> 0.2mm <b>LENGTH:</b> 45mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> Sgrossatura tasche 1 <b>PRODUCT:</b> <a href="#">1K325-0800-XB 1730</a>	
Operation 9/17 <b>DESCRIPTION:</b> 240_tasca_piccola_sgrossatura <b>STRATEGY:</b> Pocket 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.1mm <b>STOCK TO LEAVE:</b> 0.2mm <b>MAXIMUM STEPDOWN:</b> 6mm <b>MAXIMUM STEPOVER:</b> 2.4mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19.2mm <b>MAXIMUM SPINDLE SPEED:</b> 4540rpm <b>MAXIMUM FEEDRATE:</b> 2270mm/min <b>CUTTING DISTANCE:</b> 292.25mm <b>RAPID DISTANCE:</b> 314.65mm <b>ESTIMATED CYCLE TIME:</b> 12s (0.5%) <b>COOLANT:</b> Flood	<b>T12 D12 L12</b> <b>TYPE:</b> flat end mill <b>DIAMETER:</b> 4mm <b>LENGTH:</b> 40mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> Fresa per sgrossatura (tasca piccola) e per finitura totale tasche <b>PRODUCT:</b> <a href="#">1K334-0400-050-XC 1730</a>	
Operation 10/17 <b>DESCRIPTION:</b> 250_tasche_laterali_finitura <b>STRATEGY:</b> Contour 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPDOWN:</b> 6mm <b>MAXIMUM STEPOVER:</b> 3.8mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19.2mm <b>MAXIMUM SPINDLE SPEED:</b> 4510rpm <b>MAXIMUM FEEDRATE:</b> 369.82mm/min <b>CUTTING DISTANCE:</b> 2460mm <b>RAPID DISTANCE:</b> 1296.5mm <b>ESTIMATED CYCLE TIME:</b> 7m:0s (18.1%) <b>COOLANT:</b> Flood	<b>T12 D12 L12</b> <b>TYPE:</b> flat end mill <b>DIAMETER:</b> 4mm <b>LENGTH:</b> 40mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> Fresa per sgrossatura (tasca piccola) e per finitura totale tasche <b>PRODUCT:</b> <a href="#">1K334-0400-050-XC 1730</a>	
Operation 11/17 <b>DESCRIPTION:</b> 260_tasche_fondo_finitura <b>STRATEGY:</b> Pocket 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.1mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPOVER:</b> 2.4mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19mm <b>MAXIMUM SPINDLE SPEED:</b> 7190rpm <b>MAXIMUM FEEDRATE:</b> 2106.67mm/min <b>CUTTING DISTANCE:</b> 3943.31mm <b>RAPID DISTANCE:</b> 2037.21mm <b>ESTIMATED CYCLE TIME:</b> 3m:21s (8.7%) <b>COOLANT:</b> Flood	<b>T12 D12 L12</b> <b>TYPE:</b> flat end mill <b>DIAMETER:</b> 4mm <b>LENGTH:</b> 40mm <b>FLUTES:</b> 5 <b>DESCRIPTION:</b> Fresa per sgrossatura (tasca piccola) e per finitura totale tasche <b>PRODUCT:</b> <a href="#">1K334-0400-050-XC 1730</a>	
Operation 12/17 <b>DESCRIPTION:</b> 270_tasche_laterali_con_smusso_finitura <b>STRATEGY:</b> Contour 2D <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPOVER:</b> 5.7mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 19mm <b>MAXIMUM SPINDLE SPEED:</b> 6000rpm <b>MAXIMUM FEEDRATE:</b> 1999.2mm/min <b>CUTTING DISTANCE:</b> 369.38mm <b>RAPID DISTANCE:</b> 612.42mm <b>ESTIMATED CYCLE TIME:</b> 37s (1.6%) <b>COOLANT:</b> Flood	<b>T14 D14 L14</b> <b>TYPE:</b> bullnose end mill <b>DIAMETER:</b> 8mm <b>CORNER RADIUS:</b> 1mm <b>LENGTH:</b> 50mm <b>FLUTES:</b> 4 <b>DESCRIPTION:</b> 54_finitura_fondo_tondo <b>VENDOR:</b> mitsubishi <b>PRODUCT:</b> <a href="#">MPMHVRBD0800R100</a>	
Operation 13/17 <b>DESCRIPTION:</b> 280_Fresatura_elicoidale_foro_centrale_sgrossatura (2) <b>STRATEGY:</b> Bore <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0.2mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 16mm <b>MAXIMUM SPINDLE SPEED:</b> 1393rpm <b>MAXIMUM FEEDRATE:</b> 250mm/min <b>CUTTING DISTANCE:</b> 797.84mm <b>RAPID DISTANCE:</b> 305.41mm <b>ESTIMATED CYCLE TIME:</b> 3m:15s (8.4%) <b>COOLANT:</b> Flood	<b>T13 D13 L13</b> <b>TYPE:</b> flat end mill <b>DIAMETER:</b> 32mm <b>LENGTH:</b> 100mm <b>FLUTES:</b> 4 <b>DESCRIPTION:</b> fresa per elicoidale <b>VENDOR:</b> mitsubishi <b>PRODUCT:</b> <a href="#">AQXR324SA32S con inserto QOMT1651R-M2 con grado MP6130</a>	

Operation 14/17 <b>DESCRIPTION:</b> 290_Barenatura <b>STRATEGY:</b> Drilling <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 5mm <b>MAXIMUM SPINDLE SPEED:</b> 979rpm <b>MAXIMUM FEEDRATE:</b> 146.85mm/min <b>CUTTING DISTANCE:</b> 60mm <b>RAPID DISTANCE:</b> 325mm <b>ESTIMATED CYCLE TIME:</b> 28s (1.2%) <b>COOLANT:</b> Flood	<b>T7 D7 L7</b> <b>TYPE:</b> boring bar <b>DIAMETER:</b> 40mm <b>LENGTH:</b> 48mm <b>FLUTES:</b> 1 <b>DESCRIPTION:</b> Alesa per foro centrale H8 <b>PRODUCT:</b> <a href="#">825-825-45TC09-C345TC09-C3</a>	
Operation 15/17 <b>DESCRIPTION:</b> 300_foratura_fori_piccoli <b>STRATEGY:</b> Drilling <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm	<b>MAXIMUM Z:</b> 51mm <b>MINIMUM Z:</b> 14mm <b>MAXIMUM SPINDLE SPEED:</b> 4010rpm <b>MAXIMUM FEEDRATE:</b> 112.28mm/min <b>CUTTING DISTANCE:</b> 600mm <b>RAPID DISTANCE:</b> 3606.99mm <b>ESTIMATED CYCLE TIME:</b> 6m:4s (15.7%) <b>COOLANT:</b> Flood	<b>T8 D8 L8</b> <b>TYPE:</b> drill <b>DIAMETER:</b> 2.5mm <b>TIP ANGLE:</b> 140° <b>LENGTH:</b> 40mm <b>FLUTES:</b> 2 <b>DESCRIPTION:</b> Punta per fori piccoli <b>PRODUCT:</b> <a href="#">862.1-2500-225A0-GM X2BL</a>	
Operation 16/17 <b>DESCRIPTION:</b> 310_nervatura_tonde_sgrossatura <b>STRATEGY:</b> Parallel <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPOVER:</b> 0.2mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 22.72mm <b>MAXIMUM SPINDLE SPEED:</b> 6000rpm <b>MAXIMUM FEEDRATE:</b> 1999.2mm/min <b>CUTTING DISTANCE:</b> 1104.98mm <b>RAPID DISTANCE:</b> 421.32mm <b>ESTIMATED CYCLE TIME:</b> 39s (1.7%) <b>COOLANT:</b> Flood	<b>T14 D14 L14</b> <b>TYPE:</b> bullnose end mill <b>DIAMETER:</b> 8mm <b>CORNER RADIUS:</b> 1mm <b>LENGTH:</b> 50mm <b>FLUTES:</b> 4 <b>DESCRIPTION:</b> 54_finitura_fondo_tondo <b>VENDOR:</b> mitsubishi <b>PRODUCT:</b> <a href="#">MPMHVRBD0800R100</a>	
Operation 17/17 <b>DESCRIPTION:</b> 320_nervatura_tonde_finitura <b>STRATEGY:</b> Parallel <b>WCS:</b> #1 <b>TOLERANCE:</b> 0.01mm <b>STOCK TO LEAVE:</b> 0mm <b>MAXIMUM STEPOVER:</b> 0.1mm	<b>MAXIMUM Z:</b> 50mm <b>MINIMUM Z:</b> 18.56mm <b>MAXIMUM SPINDLE SPEED:</b> 8000rpm <b>MAXIMUM FEEDRATE:</b> 1900mm/min <b>CUTTING DISTANCE:</b> 2074.5mm <b>RAPID DISTANCE:</b> 431.73mm <b>ESTIMATED CYCLE TIME:</b> 1m:11s (3.1%) <b>COOLANT:</b> Flood	<b>T17 D17 L17</b> <b>TYPE:</b> ball end mill <b>DIAMETER:</b> 8mm <b>CORNER RADIUS:</b> 4mm <b>LENGTH:</b> 20mm <b>FLUTES:</b> 4 <b>DESCRIPTION:</b> nervatura tonda <b>VENDOR:</b> mitsubishi <b>PRODUCT:</b> <a href="#">fresa a punta tonda VQ4SVBR04000</a>	

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