

A modern, multi-story office building with a glass and concrete facade. The building has a dark grey upper section with the company name 'MPP Micro Point Pro' in large, bold letters. The lower sections are white with horizontal bands of glass windows. The building is set against a clear blue sky. In the foreground, there is a parking lot with several cars and a red banner at the bottom.

MPP Micro Point Pro

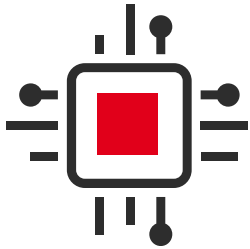
Precision ■

Innovation ■

Quality ■

Professionals in Precise Machining

About us



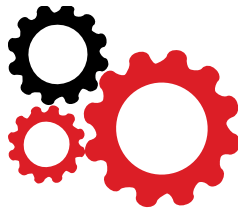
A leading customized solutions **provider** for the semiconductors and micro-electronics assembly industry



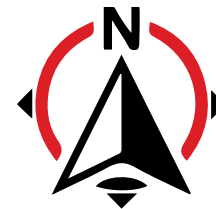
40 years of experience and expertise



Providing solutions to a wide array of market leaders & segments



A leading **OEM** of Manual Wire Bonders



We master the whole production process: **raw material** → **end product**



Located in the north part of ISRAEL supported by 170 employees

Applications & Market's Segments

Automotive



Medical



Aviation & Aerospace



Internet of Things



Home appliances



Solar



LED



Precision parts



Defense & Federal



Our Leading Customers



MPP's Basket of Solutions

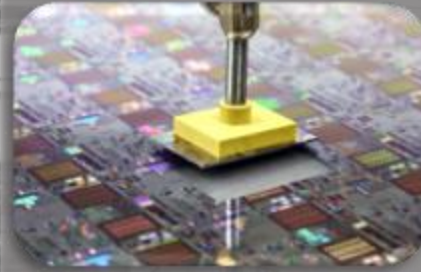
Small & Large wire
Wedges



Die Collets



Pick & Place
Flip Chip



Dispensers



Nozzles & SMT



"Build to Print /
Spec" Services



Customized Ceramic
& Hard Metal
Products



Manual Wire
Bonders



Thin Film Coatings



Probe Heads
For Wafer Resistivity
Check & others



Cold HV Thin-Film Coating



Cold HV-sputtering produces
glasslike coatings thickness
layer range is $0.2 \div 3 \mu\text{m}$ ←
Controlled thickness



The value of MPP coating

- Anti-reflection
- Abrasive resistance of precise mechanic parts
- Low temperatures
- Low contamination
- Uniformity in complex shapes



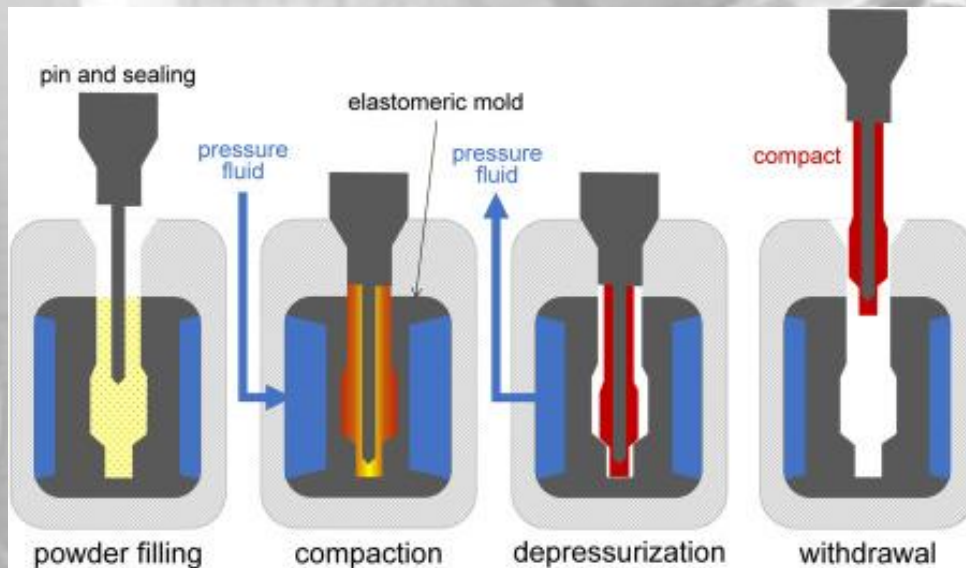
Precise (Micro) Parts

- Knowhow, expertise, experience, & cutting-edge precision technologies →
 - high precision solutions
 - Various array of applications
 - various material options
- **“Build to Print” & “Build to Spec” services**



Technologies – Pressing & Sintering

- We master the whole production process of Hard Metal & Ceramic
 - ➔ From powder to raw material
- Self-designed compaction system
- Pressure sintering system



Technologies - EDM

- Die Sinking
- Wire cutting
- Micro precise hole sinking
- Self designed semi-automated Micro-Sinking systems
- Opto-Computerized automated system for incorporated QC within the production process (Self-designed software & hardware)



Technologies – Turning & Milling

- CNC Precise machining 4/5 axes
- Multi-function Mill Turn Center
- Highly Precise & accurate milling systems
- “Swiss-Type” milling system



Technologies - Grinding

- Ultra precise CNC 4/5 axes systems
- Round & surface grinding systems
- Automatic 6 axes systems
- Automatic Centerless grinding systems
- Self designed & built semi-automated Micro-Grinding systems



Technologies – Dicing

- Automated precise dicing systems
- 2" Tilted spindle 0° to 15°
- Self-designed special Jigs

Y Axis, Control	Linear encoder for each Y axis
Resolution	0.1 µm
Cumulative Accuracy	1.5 µm
Indexing Accuracy	1.0 µm
X Axis	Air Slide
Z Axis, Resolution	0.2 µm
Repeatability	1.0 µm
θ Axis, Repeatability	4 arc-sec
Stroke	350°



Quality Assurance & Control

- Technologies:
 - “NEXIV” – Programable Video Measuring System
 - Coordinate Measuring Machine (XYZ)
 - OGP - non-contact and multi-sensor dimensional measurement systems
 - Confocal microscope/comparators - optical microscope measuring systems
 - Microscopes
 - Self-designed & built automated QC systems
- Professional QA & QC team
- Strict QA Processes & Procedures
- Final inspection – “**ship to stock**”



Added Value

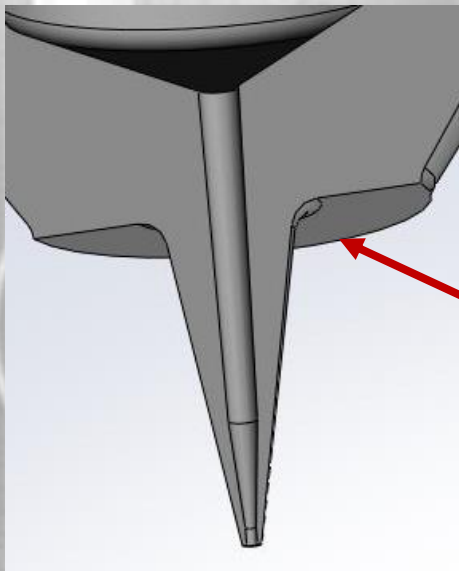
- Knowhow, expertise, experience
- Cutting-edge precision technologies
- Wide array of applications
- Design & draw per spec
- Raw material sourcing & preparation
- Design of the optimal production process
- Private labeling – special packaging

**Build to Spec
&
Build to Print**

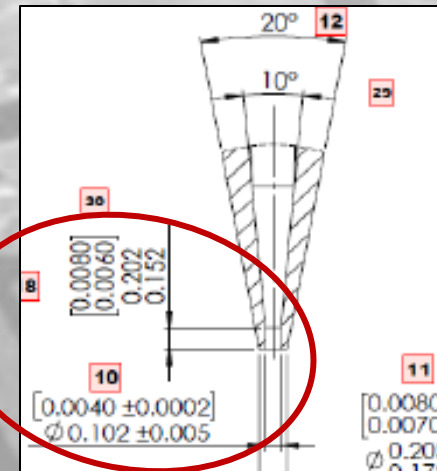
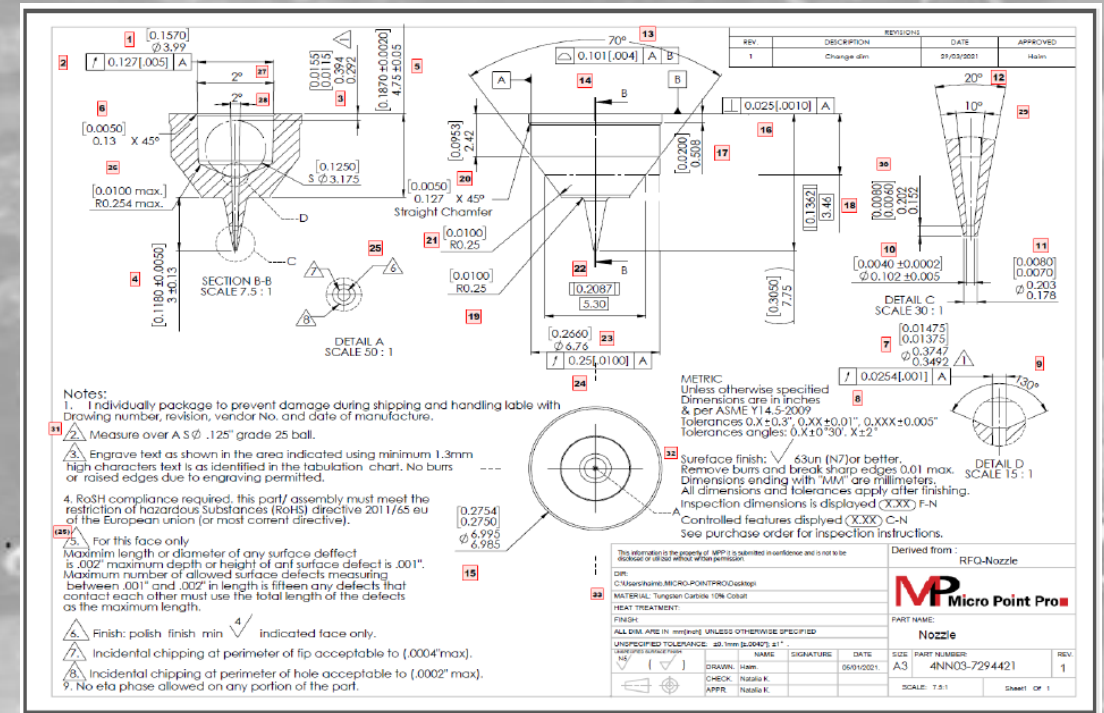
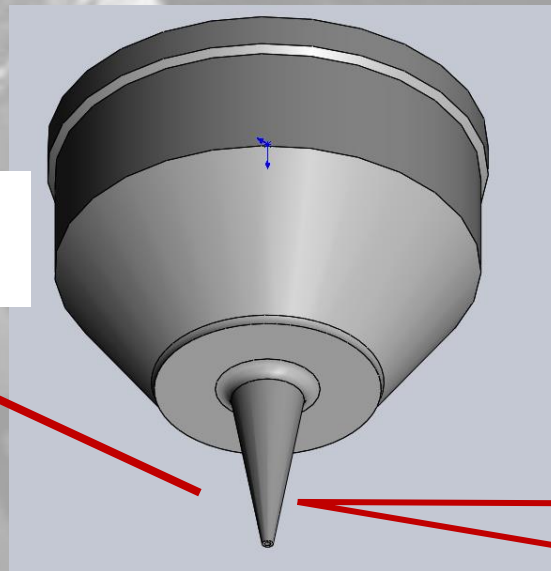


Build to Spec

- Special Nozzle - Micro Dispensing tool (Medical)
- Material - WC
- Complicated geometry
- Tight tolerances $\pm 5 \mu$
- Special surface condition requirements
- High repeatability

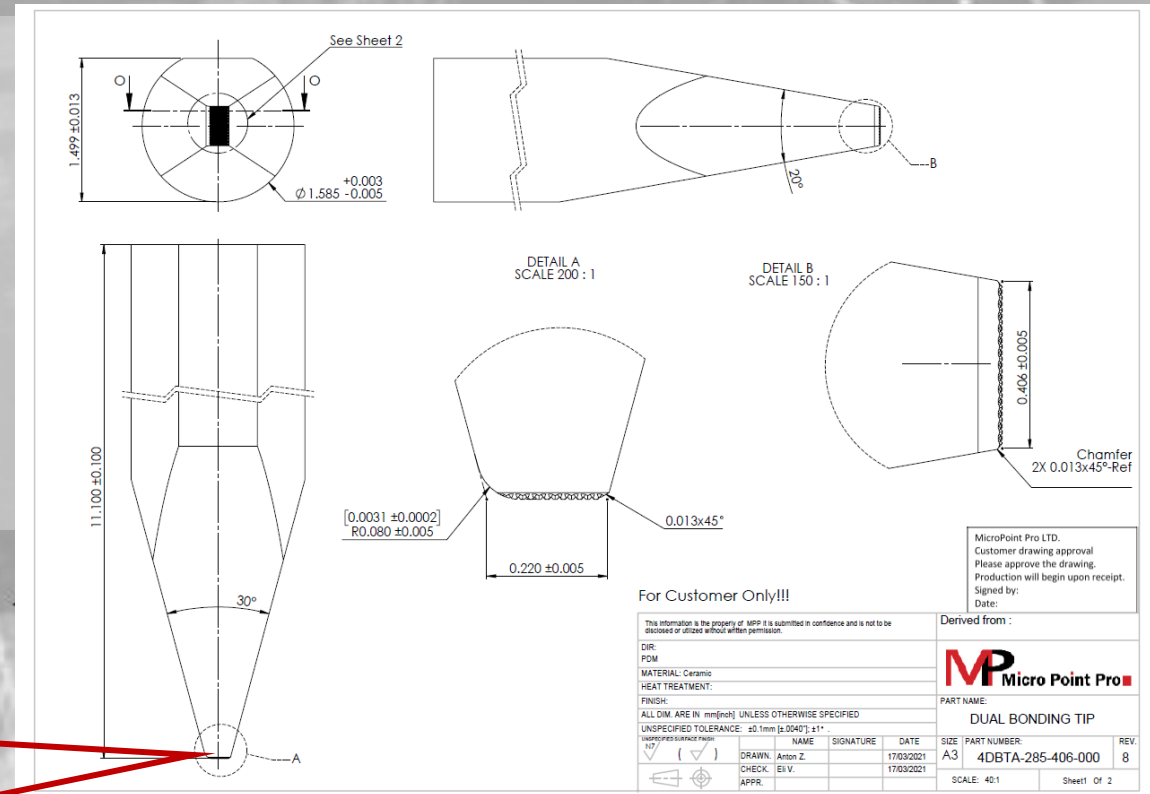
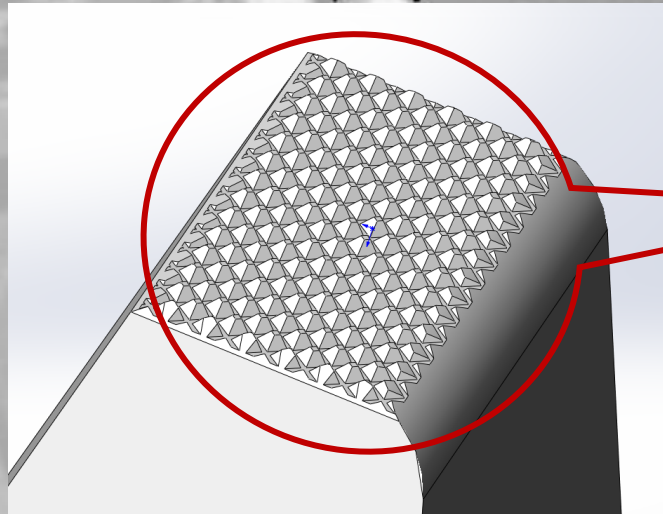
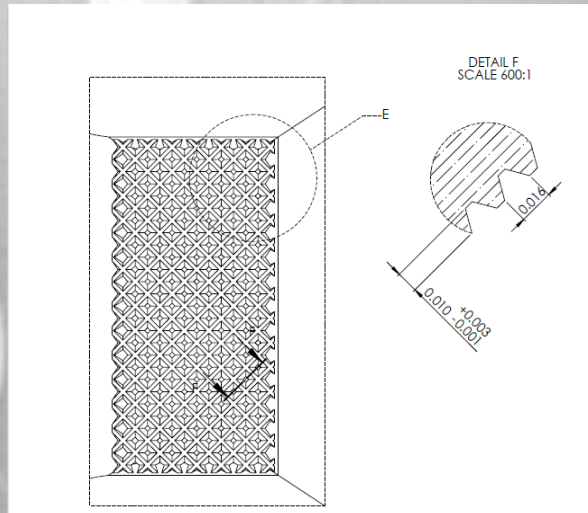


Section View



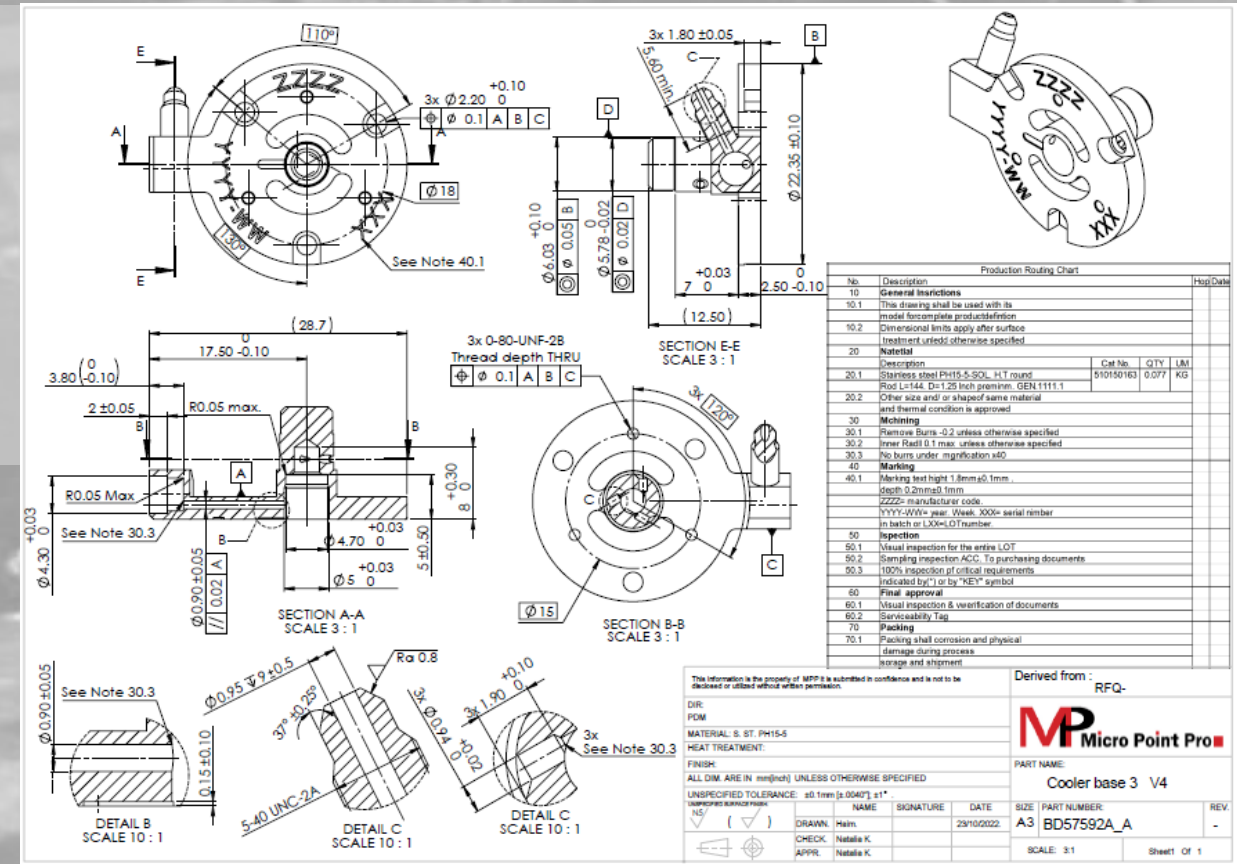
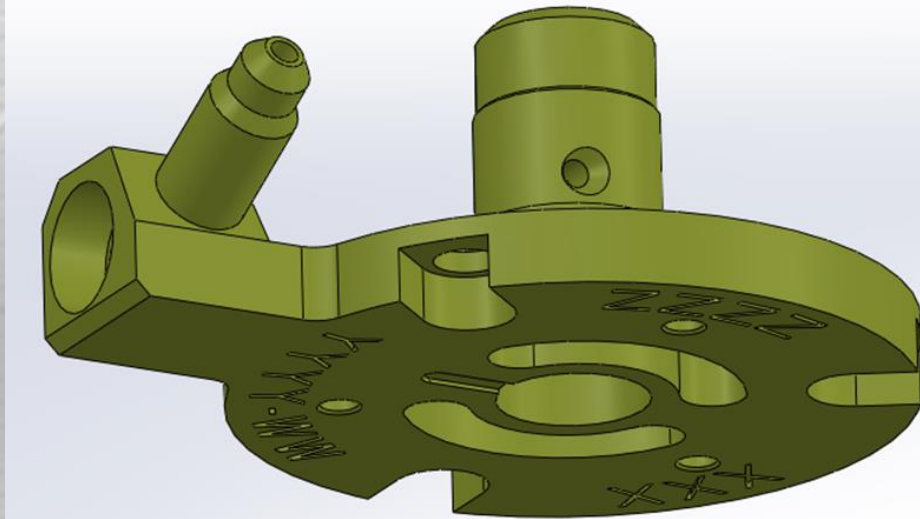
Build to Spec

- Special micro tool (length~11 mm) for Ultrasonic Lead Bonding
- Material: Special self-developed Ceramic formulation
- Complicated geometry
- Tight tolerances $\pm 4 \mu$
- Special tip surface treatment
- High repeatability



Build to Print

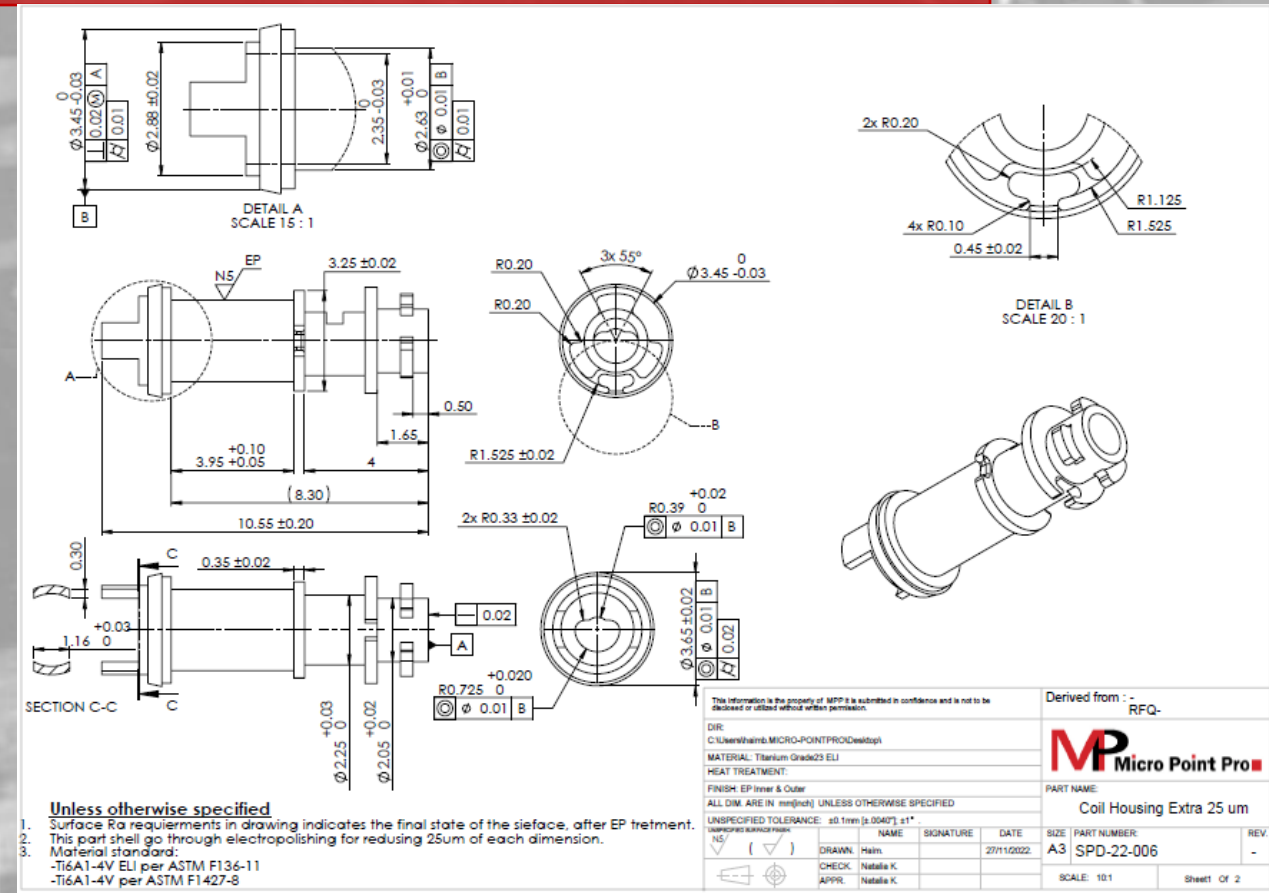
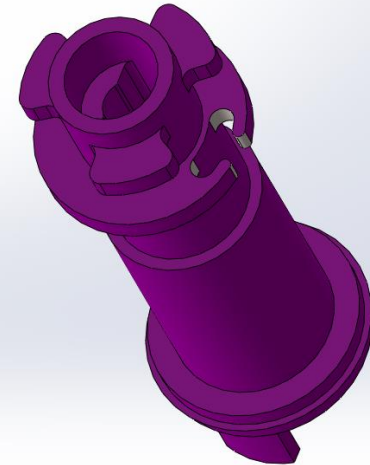
- Special Precise part for Hydraulic System
- Material: PH15-5 (Stainless Steel)
- Complicated geometry
- Micro precise holes
- Tight tolerances
- Special surface condition requirements



Build to Print

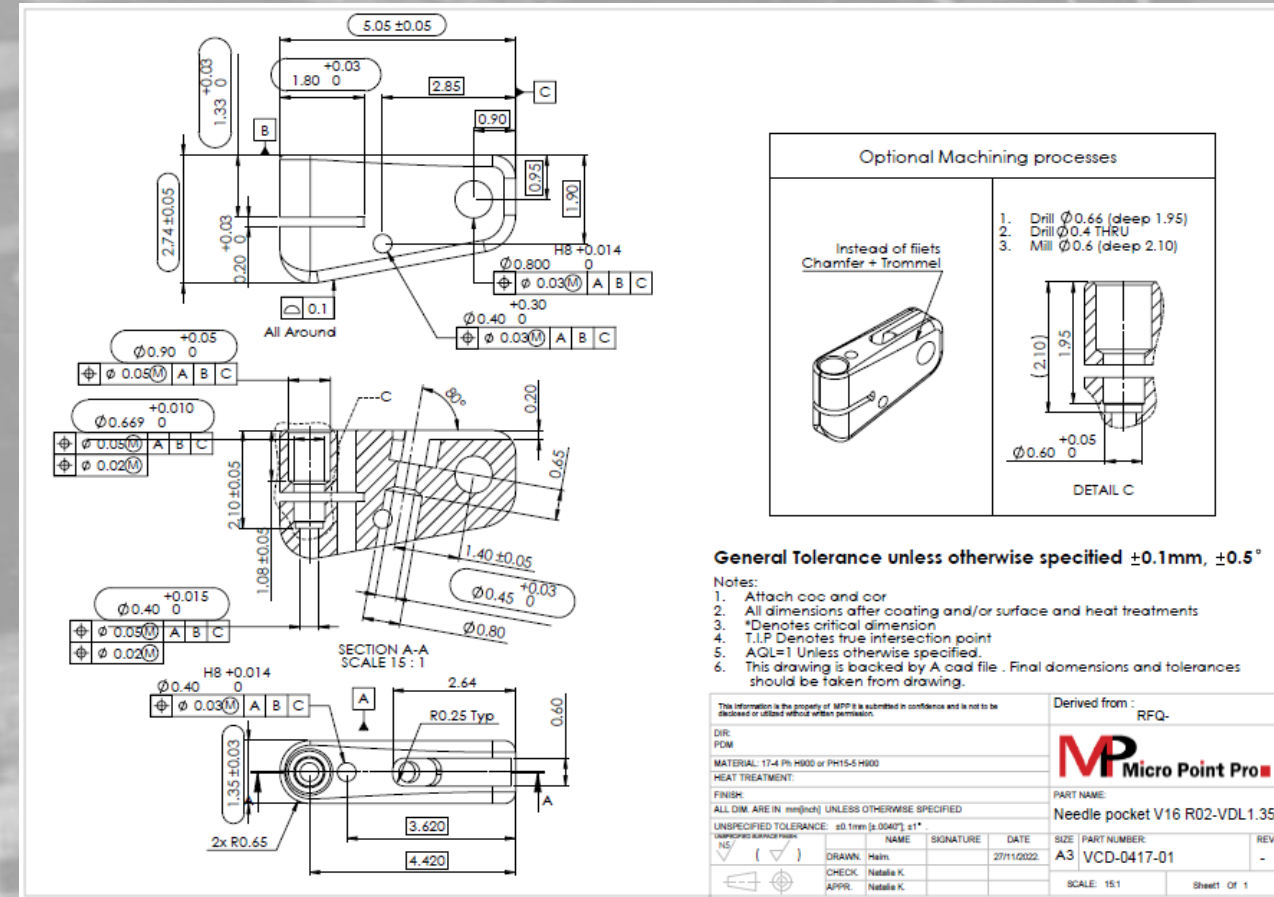
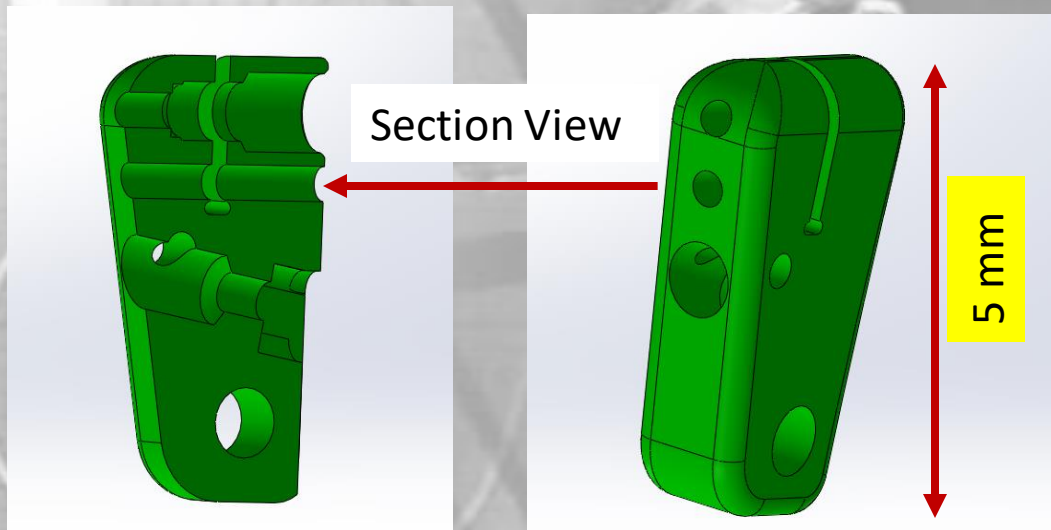
- Precise part for Medical Application
- Material: Titanium Carbide
- Complicated geometry
- Tight tolerances
- Special surface condition requirements

Section View



Build to Print

- Micro Precise part for Medical Application
- Material: PH17-4 (Stainless Steel)
- Complicated geometry
- Tight tolerances
- Special surface condition requirements



Other Applications



A modern, multi-story office building with a glass and concrete facade. The building has several vertical sections and a prominent entrance area. The sky is clear and blue.

MPP GROUP

Thank you