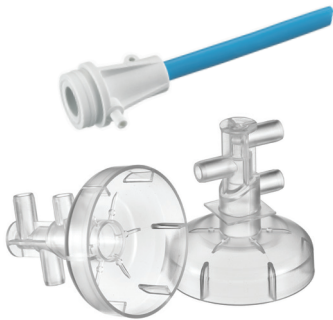


***When Time Matters, Count on NPI/Medical***

Quick-Turn Manufacturing refers to our process for rapidly turning your CAD files into high quality injection molded parts, based on your specific project needs and requirements. With four DynaClass options of tooling available, Quick-Turn Manufacturing at NPI/Medical offers one of the most diverse tooling and molding options to service your needs from 1 to 500,000 parts. ***It all starts with you and your needs***, and letting us work with you to find the best solution to your project.



Selecting the right tooling and molding options is critical to your new product development, and getting you to market quickly. And where the other rapid and prototype tooling methods come up short is where Quick-Turn Manufacturing really excels. Rapid Tooling and Prototype Tooling & Molding are great alternatives to traditional prototype methods, but when the end result required is true production level parts, with higher expectations for critical dimensions, quality, maintaining true CAD geometry, and in some cases full validation, then the clear choice for the program can be found in the DynaClass system of Quick-Turn Manufacturing. The DynaClass tooling system was developed to fill the void between where prototype tooling falls short and full blown production tooling.

***Our customers generally come to us with quality expectation that can't be met with a standardized "black box" tooling approach.*** Our DynaClass parts often come with between 3 and 6 critical-to-function (CTF) inspection requirements and the need for inspection reports with each shipment. We also run all of our tools in an ISO 9001-2008 certified environment or the option to transition to an ISO 13485 facility, giving your team the added piece of mind you'll receive the high quality parts you need.

Part geometry is not compromised during the molding process, unlike other "rapid" molding processes where additional draft or radii may be required. We have CAD engineers design all of our mold halves, and use CNC machined EDM to burn or wire in all critical mold geometry that cannot be milled. The difference is your parts are molded to our true CAD geometry, to 100% of your design intent. You don't need to compromise by adding various fillets or radii, or make any concessions for added draft and feature relief, ***if it is moldable we can mold it.***



***Quick-Turn Manufacturing at NPI/Medical offers one of the most diverse tooling and molding options to service your needs from 1 to 500,000 parts.***

We understand that often prototype parts don't live up to expectation, hence the introduction of the DynaClass™ Tooling System. DynaClass™ Tooling and Molding provides production quality molded parts in a compressed time frame. We build our customers' parts to their specifications.

**When compromise is not an option, we have a DynaClass™ Tooling choice to fit your needs.**

NPI/Medical	DynaClass 1	DynaClass 2	DynaClass 3	DynaClass 4	SPI Class 101
<b>Uses</b>	Prototype	Tight Tolerance, Advanced Prototypes	Low Volume Molding	Bridge Tooling, Pre-Production	Tight Tolerance Production
<b>Applications</b>	Form, Fit, Function	Part Validation/ Design Verification	Production	High Volume, Pre-Production	Extremely High Production
<b>Cost</b>	Low	Low to Moderate	Moderate	Premium	Premium
<b>Maximum part size</b>	3"x4"	6" x 8"	6" X 8"	8" X 8"	10 X 10
<b>Lead Time</b>	1-3 weeks	2-4 weeks	3-6 weeks	4-8 weeks	12-14 weeks
<b>Mold Life</b>	up to 5,000	up to 50,000	up to 100,000	up to 500,000	1,000,000 Plus
<b>Mold Base</b>	P-20 Steel/Aluminum	P-20 or #2 Steel	P-20 or #2 Steel	P-20, #2, #3, & # 7 Steel	#2, #3, #7
<b>Mold Inserts</b>	Limited/Hand Loads	Hand Load & Actions as Needed	Automated	Automated	Automated
<b>Cavity Creation</b>	Machined with Limited EDM	Machined with Some EDM	Machined & EDM	Machined & EDM	Machined & EDM
<b>Inserts</b>	Hardened Steel Cores, Cavities & Inserts as Needed	Hardened Steel Cores, Cavities & Inserts as Needed	Hardened Steel Cores, Cavities & Inserts	Hardened Steel Cores, Cavities & Inserts	Hardened Steel Cores, Cavities, and Inserts
<b>Action</b>	Limited/Hand Loads	Hand Load & Actions as Needed	Automated	Automated	Automated
<b>Standard Tolerances</b>	+/- .005" unless otherwise predetermined	+/- .005" unless otherwise predetermined	+/- .005" unless otherwise predetermined	+/- .005" unless otherwise predetermined	Standard Production molding tolerances
<b>Controlled Environments</b>	Not transferable	Clean Room Molding Options	Clean Room Molding Options	Clean Room Molding Options	Clean Room Molding Options
<b>Quality Systems</b>	Custom Quality Plans	Custom Quality Plans	Full Process Validation Available	Full Process Validation Available	Full Process Validation Available
<b>Class Equivalent</b>	Class 105	Class 104	Class 103	Class 102	

**Lower Cost, Faster, Less Accurate, Less Automation, Fewer Parts.**

**Higher Cost, Slower, More Accurate, More Automation, More Parts.**

Our tools are expertly designed using the latest software, including Solid Works, Cimatron and Master CAM. Cores, cavities and electrodes are machined using one of our many high speed machining centers, including a lights out, 24 x 7 automated electrode burning work cell with 6- axis robotics. These electrodes enable us to create your parts with true-to-file CAD geometry, even with features beyond conventional milling capabilities. We offer you four levels of tooling to match your program's needs, to quickly turn your engineering concepts into high quality injection molded parts.