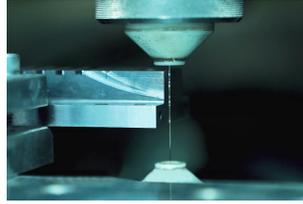


Precision CNC Machining Manufacturer



Precision CNC Grinding



WEDM/EDM CNC Machining



CNC Cylindrical Turning



CNC Milling

CNC Machining Service and Precision Machining

Precision CNC Grinding: It includes various kinds of grinding technologies, for example, Curve Profile Grinding, Plane Surface Grinding, CNC Centerless Grinding, CNC Inside and Outside Round Grinding, etc. Usually, Precision CNC Grinding Can get more Ultra-precision accuracy than normal milling and turning. But it also speeds more time and cost.

WEDM/EDM Machining: These include two machining technologies. WEMD and EDM are different. WEDM is also called Wire-cut EDM or called Erosion Machining. It uses ultra-thin copper wire to cut the parts to the needed shape or get the needed R-angle. EDM is another machining technology that usually use to cut the parts with a grooved shape.

CNC Cylindrical Turning Grinding: There are also various kinds of Turning technologies, for example, by JG high-precision round parts turning and grinding; And there are also some normal circular parts that use the NC Lathes turning machines.

CNC High-Speed Milling: There are also some methods for milling. We have digital CNC-milling machines 3-axis or 5-axis for machining complex parts, and also have some manual milling machines for machining normal parts.

Measurement Inspection and Quality Control

As a precision CNC machining supplier, measurement inspection tests and quality control are essential.

Height Test: inspect the sizes for length, width, and height.

Surface Roughness Test: inspect the surface planeness.

R-Angle Test: inspect the R-angle of the precision parts.

Focus Test: inspect the focus of the long edge angle area.

Center Test: inspect the center of the round/circular/cylindrical parts.

Precision Machining Components Display

As a precision CNC machining factory, we should more or less know the precision parts usage. There are mainly three big categories. Stamping Die Components for metal stamping tools; precision mold parts for plastic injection molds; hardware components for automated systems and fixtures.

Stamping Die Components

Components for Metal Stamping Dies and Punching Tools. Including Punches, Die Inserts, Die Bushes, Guide Pins, and Bushings.

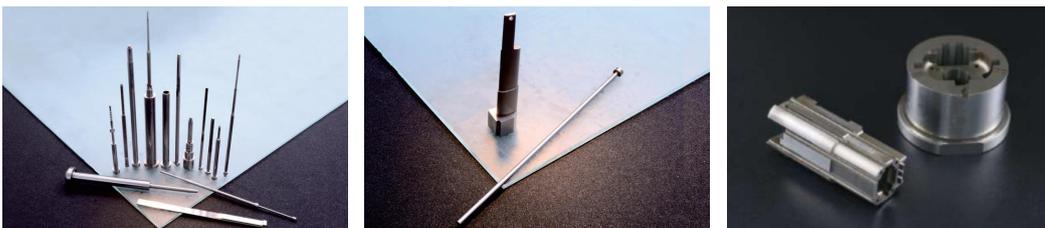
There are also some springs and balls, but we don't manufacture these two kinds of parts.

Most of the Metal stamping tool parts are in stainless, HSS, or Carbide materials we can make them according to 2D/3D Drawings.



Precision Mold Parts

Parts for Plastic Injection Mold and Tooling. Including Cores and Cavities, Ejector Pins and Sleeves, Guide Pins and Bushings, etc.



Hardware Components for Automated Systems and Fixtures

There are some automation machinery systems that need some high-precision metal parts and mechanical components. And some precision fixtures also are needed in the automated systems.



Materials

A precision CNC machining company knows the various kinds of material characters. Japan materials, German materials, and American materials' models, their hardness, if have magnetism character, etc.

Hard Metal Cemented Carbide: WC, 100826, 10078, H40S, TSM30, CD650, BC200; RD30, RD50, D60, KD20, 100-1224, 100-1205, HM; CF-S12ZM CF-S18Z, TR05C, EF10.

High-Speed Steel: HSS, SKH9, 1.3343, 1.3344, DRM3, M2, 100-97, 100-1090, M2

Stainless Steel: DC53, SKD11, 100-40, 1.2436, CR12, 100-99. D2, 1.2210, 1.2379, 1.7131, SLD, XW42, ASSA888. etc.

Spring Steel: 65MN, 1074, 1075, 1095, 45SCD6, 1.1269.

Aluminum Alloy: AL, 6061, 7075, AU4G

Titanium alloy: TC9

Brass Alloy: C117; Moldmax HH; Messing Brass;

Finishing and Coatings

A precision machining parts supplier also needs to know various kinds of surface treatment finishes and coatings. As these also affect the final dimensions, especially high-precision parts with a tolerance of +/-0.001mm.

These commonly used finishing and coatings include anodizing, blackening, TiN coating, TiCN coating, DLC coating, burnished, edge deburring, nitrited, plasma nitrited, sandblasting, line polished, etc.

And there are also some of the post processing, for example, heat treatment tempering, vacuum hardened, etc.

Application Industries

Electronics(PCB, Connectors and Terminals, Mobile phones and Computers, Intelligent Home Appliances); Automotives; Medical, Aerospace, Defense; Security and Industrial automation, etc.

About Precision CNC Machining Manufacturer

Precision CNC machining manufacturer Langdi Precision is trusted by customers all over the world. We are proud of machining various kinds of custom complex 2D/3D precision drawing parts for customers with precise sizes and accurate tolerance.

Read more about precision mould parts articles: <https://precision-mould-parts.com>