



We design, develop, manufacture and produce

- Machinery parts - CNC machined (Custom and Production)
- Plastic Injection Moulds Inserts and Standard Components
- Compression Moulds Components
- Extrusion Mould components
- Jigs & Fixtures (Inspection, Assembly, Testing, Pneumatic, Hydraulic)
- Innovative Industrial Products

COMPANY INFO – 2025

About HPML



OUR STORY



OUR MISSION,
VISION, VALUES AND
GOALS



OBJECTIVES



RESOURCES AND
SERVICES



PRODUCT
REFERENCES

Our Story



**Arvind
Chugh**

President & CEO
arvind@hpml.ca



We started our journey on 14 June 2018 with our first VMC HAAS VF4.



Since then, we have continually grown in the field of manufacturing of high tolerance and high quality cnc machined parts & plastic injection molds.



Our specialized equipment and in- house technical expertise allows us to machine and build products from a wide range of materials, including stainless steels, aluminums, Carbon steel, Alloy steel, Tool steel and Titanium



We are currently located at Unit B, 105 Northland Road, Waterloo, ON. The workshop area is 5000 Sq. Ft, and we offer 2 shifts – 8 hours each – 6 days a week



- ✓ To exceed our customer's expectations in quality, delivery and cost through continuous improvement and customer interaction
- ✓ To maintain a superior level of integrity in interactions with business partners



To become a World's leading manufacturer and supplier of precision CNC machined parts to major industries such as automotive, medical, office equipment, defense and aerospace etc.

Values



- Act with honesty and integrity
- Treat people with respect
- Conduct all business lawfully
- Accept individual and corporate responsibility
- Strive for customer satisfaction
- Improve and innovate continuously
- Never be wasteful

Objectives



Improve quality



Improve flexibility



Improve sustainability



Focus on controlling
costs in both production
and operations



Reduce time-lost
accidents



Provide excellent
customer service

OUR RESOURCES

CNC
MACHINES

ERP

CAD / CAM
SOFTWARE

INSPECTION
(QC)



CAD/CAM SOFTWARE



CAD-CAM SOFTWARE

CAD - AutoCAD Fusion 360	2025	3 license
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CAD - 2D DraftSight	2025	2 license
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CAM - Mastercam Mill 3D	2025	2 license
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CAM - Mastercam Lathe	2025	1 license
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CNC MILL (VMC)

M/C Type	Make	Model-Year	Travel (X, Y, Z Inch)	Description	QTY	Capability
CNC VMC	AWEA	AWEA AF-760X (AF-800II) (2022)	Travel : 31.5" x 20" x 20"	Spindle speed 10000 RPM, CT40 24 Tool Coolant Thru Spindle, SPINDLE AIR BLAST, High speed machining, Air around the spindle, Spindle drive motor 7.5/11 kW	1	4 Axis
CNC VMC	AWEA	AF1000 (2022) & AF1000 (2024)	Travel: 40"x 25" x 21.6"	Spindle speed 12000 RPM, CT40 24 Tool Coolant Thru Spindle, Air Thru Spindle High speed machining, Air around the spindle, Spindle drive motor 15/18.5 kW	2	4 Axis
CNC VMC	AWEA	AF1250 (2021)	Travel: 49.2 "x 25.6" x 24.4"	Spindle speed 15000 RPM, CT40 36 Tool, Coolant Thru Spindle, Air Thru Spindle, High Speed Machining, Air around the spindle	1	4 Axis
CNC VMC	AWEA	AF1600 (2021)	Travel: 63"x 31.5" x 31.5"	Spindle speed 15000 RPM, CT40 36 Tool Coolant Thru Spindle, Air Thru Spindle High speed machining, Air around the spindle	1	4 Axis

CNC MILL
(4 AXIS)

CNC MILL RESOURCES

CNC LATHE RESOURCES



M/C Type	Make	Model-Year	Travel (X, Y,X Inch)	Description	QTY
CNC Lathe	GoodWay	GLS-2000LY CNC LATHE (2022)	Max Swing Diameter - 22" Swing over saddle - 9" Max turning diameter - 15.35" Max turning length - 23.6" Standard turning diamter - 6.6" Bar capacity - 2.5" Spindle RPM - 4500 Hole through spindle - 3"	8" 3-Jaw Big-bore Power chuck, 12 station 12 Live Servo Indexing Turret (ER-25). Tailstock with Programmable Non-Rotating Quill (MT#4). Part Cathcer, Bar feeder Interface, Renishaw HPML Tool setter	1

CNC WIRE
EDM
RESOURCES



M/C Type	Make	Model-Year	Travel (X, Y,X Inch)	Description	QTY	Capability
CNC Wire Cut	Mitsubishi Electric	MV1200-S Wire EDM	Max. workpiece dimensions (in) 31.9 x 27.6 x 8.5 Workpiece weight (lbs) 1100 Table dimensions (in) (3-sided) 25.2 x 17.7 Machining range (in) 15.7 x 11.8 x 8.7	Intelligent Auto-Threader, Chiller FTS, 10 KG (22lb) Wire Spool, Wire Alignment Gauge, Auto Oiler, Advanced Hand Pendant Box, 3-Sided Table, Remote 360, Cylindrical LSM Drives, DI Resin System, Small Wire Device .004", Cylindrical LSM Drives	1	4 Axis

CMM



M/C Type	Make	Model-Year	Travel (X, Y,X Inch)	Description	QTY	Capability
CMM	Hexagon	4.5.4. SF CMM (2023)	Measuring Range 355mm (14") x 514mm (20.2") x 353mm (13.9")	Frame (roll-around stand) - Linear bearings (no compressed air supply, no air filters are required) - H3C-T Controller 600W, US 120V (standard 110V outlet use) - Next Jog Box - HH-MI-M manual indexing Probe Head, - Touch Trigger Probe Module Set, HP-TMe Kit #3 (Body, SF, MF) - Stylus kit No.7 - Probe Qualification Sphere, Steel (M8) - Workpiece standard thermal sensor Computer & Software System - Lenovo ThinkStation P520 or current model 15" LCD Touch Screen, Wireless Keyboard HH-MI-M probe head and HP-TMe touch trigger probe The HH-MI-M is a manual indexable probe head with an M8 probe interface. HH-MI-M can be manually rotated to 168 indexed positions in 15° increments in two axes without the requirement for recalibration of the tip. HP-TMe touch trigger probe (body + standard force & medium force modules) The HP-TMe is a compact 5-way touch-trigger probe, the two piece design is comprised of the probe body and a detachable stylus module. The body and module are connected together by a highly repeatable kinematic magnetic coupling. The modules can be quickly changed either manually or automatically without the need to recalibrate the probe. The stylus modules are available in four versions each giving a different trigger force. The HP-TMe system can be easily retrofitted and is compatible with existing touch-trigger controllers, extension and accessories. PC-DMIS CAD++ Software The industry standard PC-DMIS software allows the user to take full advantage of the design file resulting in a streamlined inspection process. This package is designed to support all of your measurement needs, with or without a CAD file. 1. Point-and-Click TM Programming, 2. XactMeasure GD&T TM, 3. Offline Simulation, 4. NIST Certified, 5. CAD File Export, 6. Report Templates	1	4 Axis

LASER ETCHING

M/C Type	Maker	Model - Year	Travel(X,Y,X Inch)	Description	QTY	Capability
Laser etching/engraving	DAYA	DYGQ-20W	Size (mm) : 1600 x 1000 x 900	Laser etching can be done on Steel, Aluminium, Stainless Steel and other metals	1	2 Axis



Raw Materials Machining Capability

Aluminium	Plastics	Carbon Steel	Alloy Steel	Tool Steel	Stainless Steel	Structural Material	Others	Hardened Material
6061-T6	Acetal Black Acetal Natural	1018 CRS	4140 ANN	O1	304/304L	Angles	Brass (260, 360 free cutting, Navel)	A2, D2, O, P20 steel upto 62 HRC
7075-T5	Nylon 66, KEVLAR	1020 CRS	4140 HT	A2	316L	Channels	Copper (C101)	SST UNS S17500 COND H1150
6063-T5	PVC Grey	1045 HRS	4340 HT	D2	303	Tubing	Bearing Bronze C93200	
3003	PEEK	S50C	8620	P20	440C	Pipe	Bronze 660	
Cast tooling plate	Blue cast Nylon	CR 12L14	4130 HT	S7	17-4PH	Threaded Rod		
5052	UHMW	DOM Tubes		S5	18-8			
2024	ABS Black	Welded Structures		H13	416			
Aluminum Bronze C95400	PTFE (Teflon)			M2				

QC

CAPABILITY

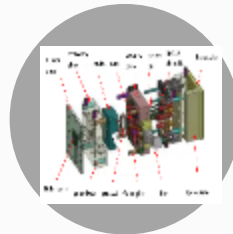
Description	Instrument	Measuring range	Accuracy	Qty.
Digital Vernier caliper	Mitutoyo	8"	.0005"	8 set
Digital Vernier caliper	Mitutoyo	24"	.0005"	1 set
Outside Micrometer	Mitutoyo	0-6"	.0001"	4 set
Height Gauge	Mitutoyo	0-40"	.0001"	1 set
Test Indicator	Mitutoyo		.0005"	1 set
Dial Indicator	STM	1"	.001"	3 set
Depth Gauge	Mitutoyo	0-6"	.001"	1 set
Gauge Block set	STM	.05-4"		2 set
Thread Measuring		4-84 TPI		3 set

Our Services



CNC MACHINING (CUSTOM AND PRODUCTION)

CNC MILLING – 4 AXIS
CNC LATHE – Y AXIS, LIVE TOOLING
LASER CUTTING & BENDING
LASER ETCHING
CNC WIRE CUT
CNC EDM
SURFACE GRINDING



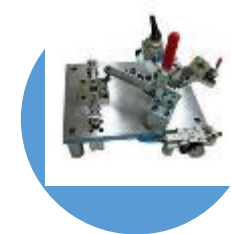
PLASTIC INJECTION MOULDS & COMPONENTS

EXTRUSION MOULDS & COMPONENTS

COMPRESSION MOULDS & COMPONENTS



INNOVATIVE INDUSTRIAL PRODUCTS



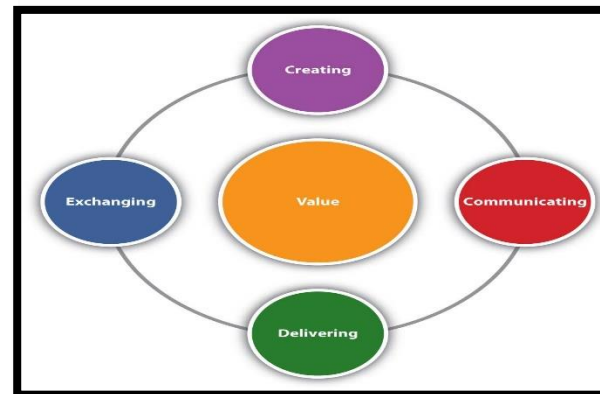
JIGS & FIXTURES (INSPECTION, ASSEMBLY, TESTING, PNEUMATIC, HYDRAULIC)

Why Choose HPML?

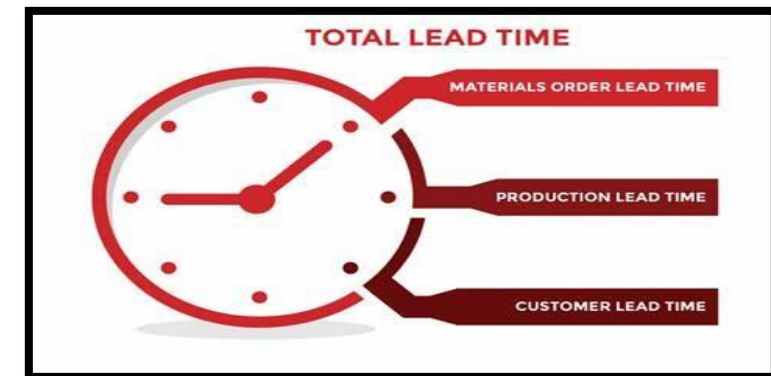
CUSTOMER CENTRIC APPROACH



VALUE ADDED AND EFFICIENT SERVICES



SHORTEST POSSIBLE LEAD-TIMES



FASTER RESPONSE



REASONABLE PRICING



EXPERT MANUFACTURING TEAM



Why Choose HPML?

PROFESSIONAL PROJECT MANAGEMENT AND
AFTER-SALE SERVICES



LOCAL & IN-HOUSE MANUFACTURING



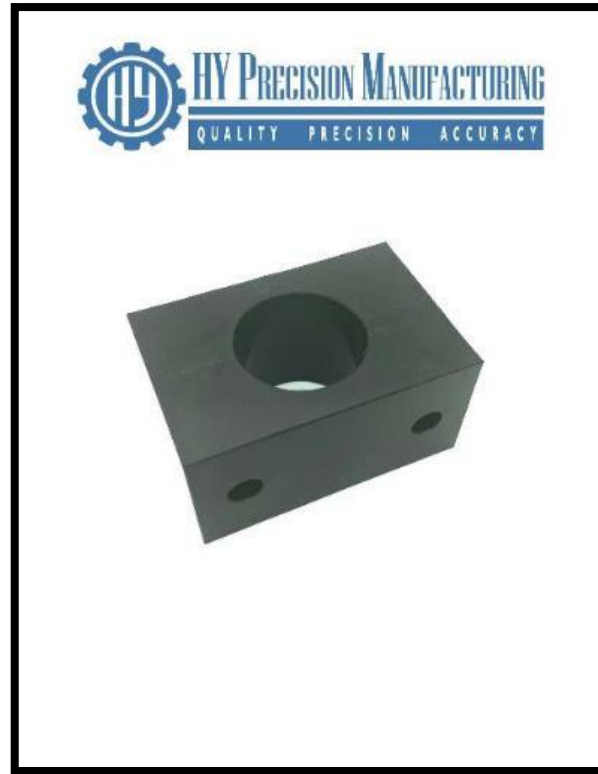
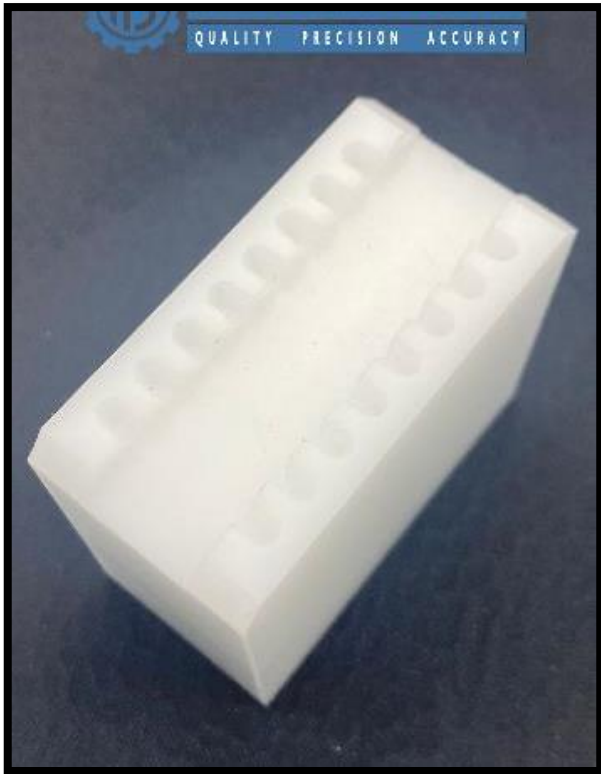
PRODUCT REFERENCES



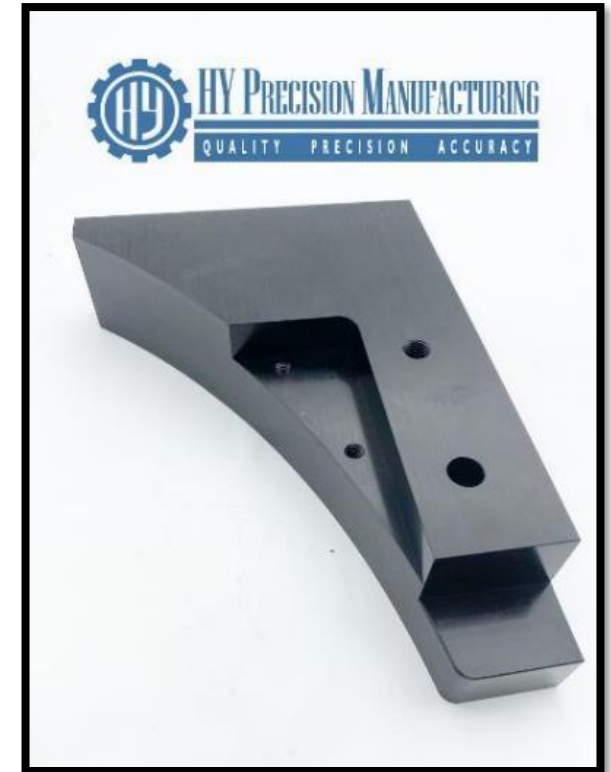
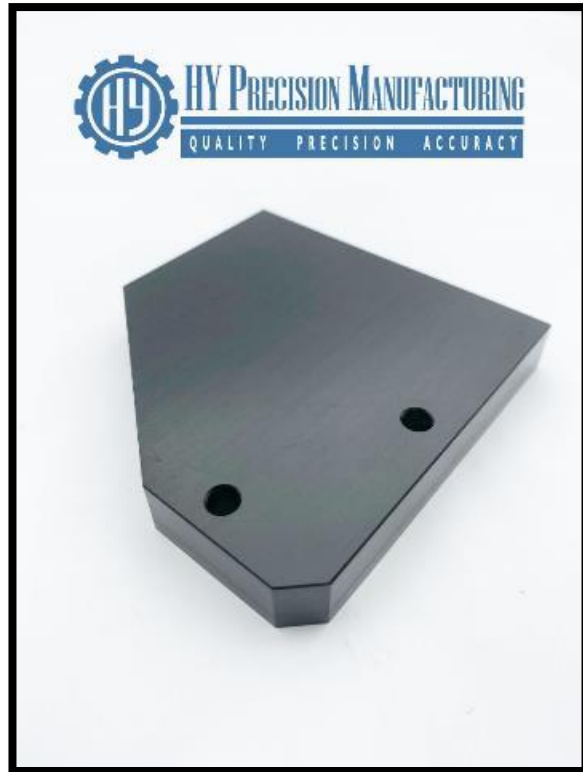


PLASTICS

ACETAL NATURAL & BLACK



ACETAL BLACK

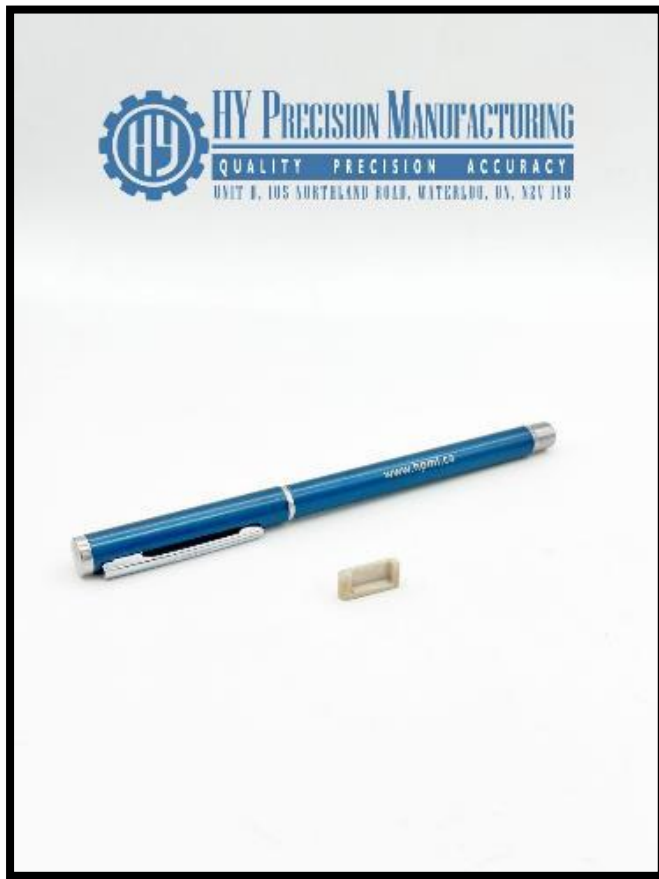


ACETAL BLACK



PEEK





PEEK

UHMW
BLACK
(REPRO)



ACETAL NATURAL



NYLON 66 NATURAL



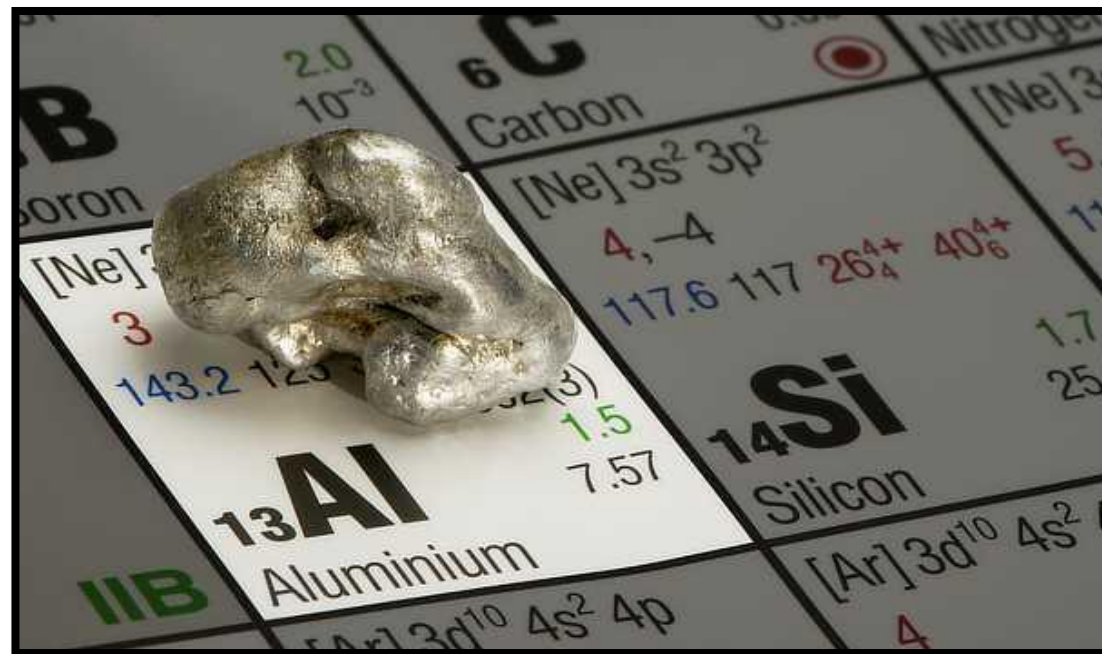
HY PRECISION MANUFACTURING

QUALITY PRECISION ACCURACY

UNIT 8, 105 NORTHLAND ROAD, WATERLOO, ON, N2V 1Y1



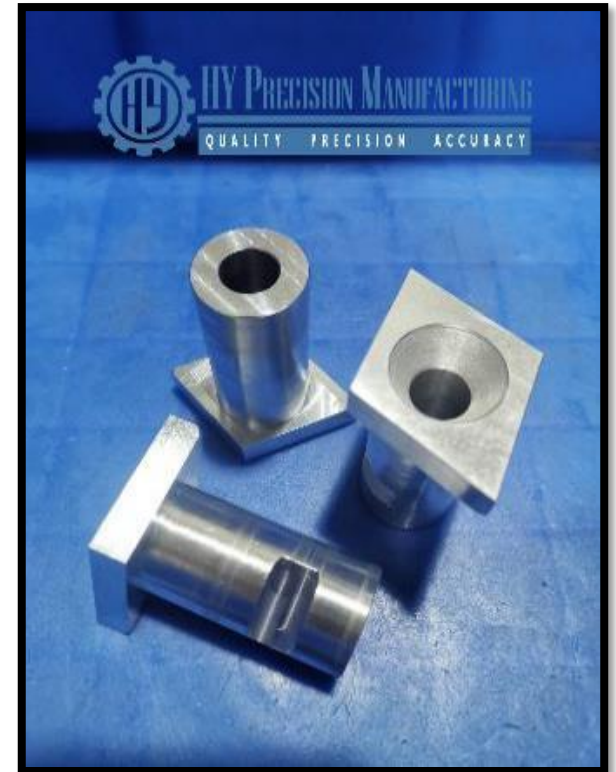
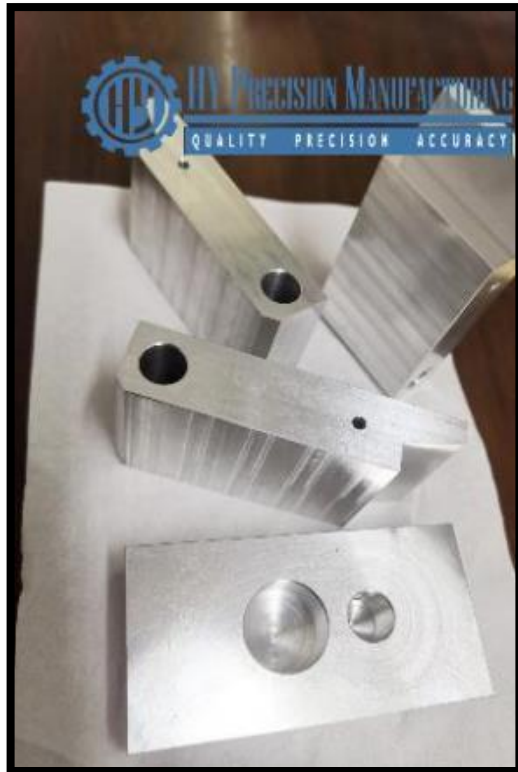
ALUMINIUM



ALUMINIUM 6061 T6



ALUMINIUM 6061 T6



ALUMINIUM 6061 T6



ALUMINIUM 6061 T6



ALUMINIUM 6061 T6



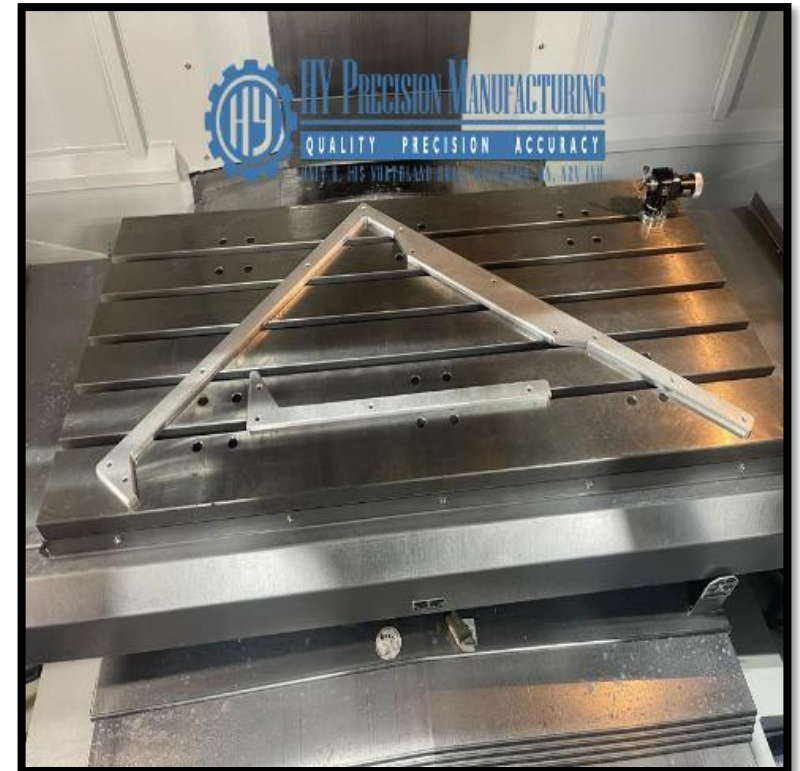
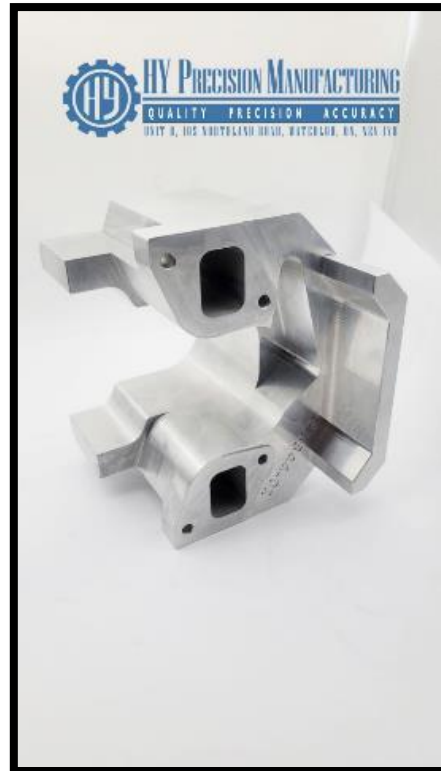
ALUMINIUM 6061 T6, BLACK ANODIZED



ALUMINIUM 6061 T6, CLEAR ANODIZED



ALUMINIUM 6061



ALUMINIUM 6061



ALUMINIUM 6061



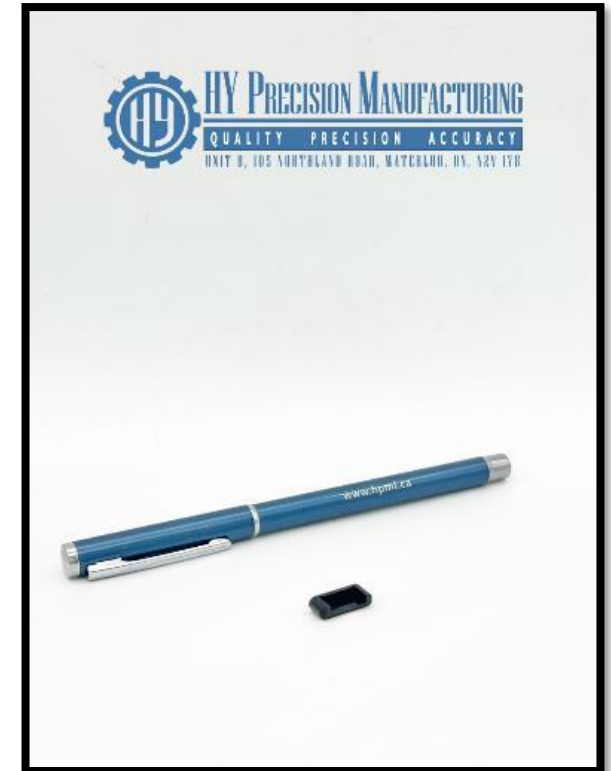
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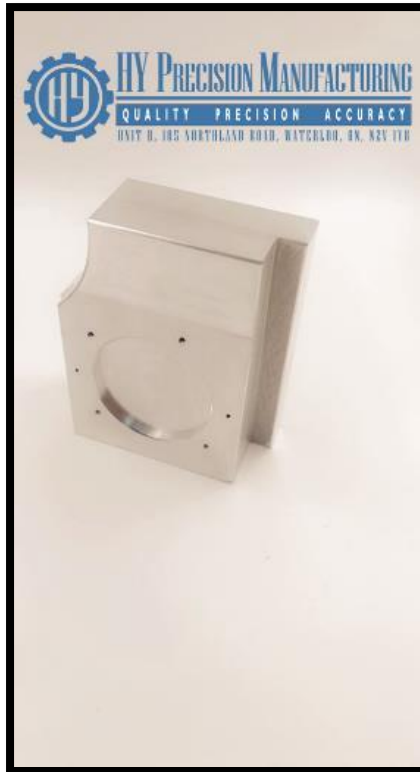
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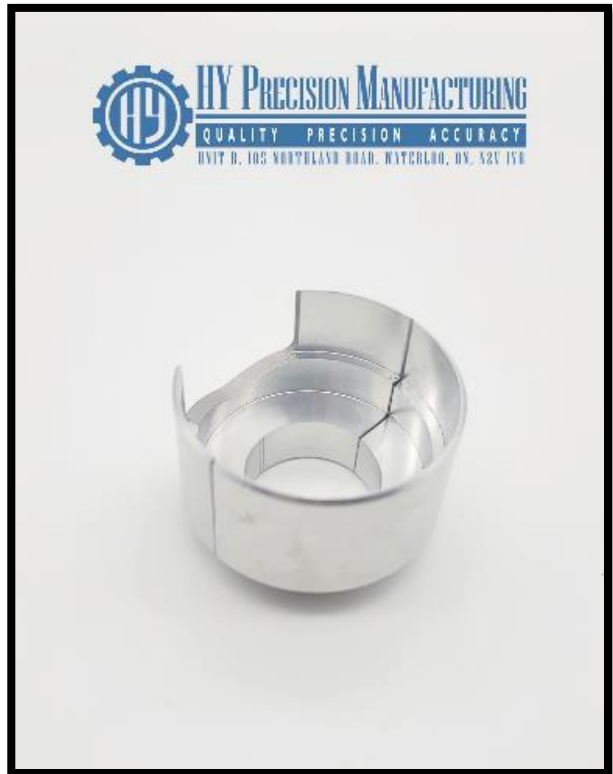
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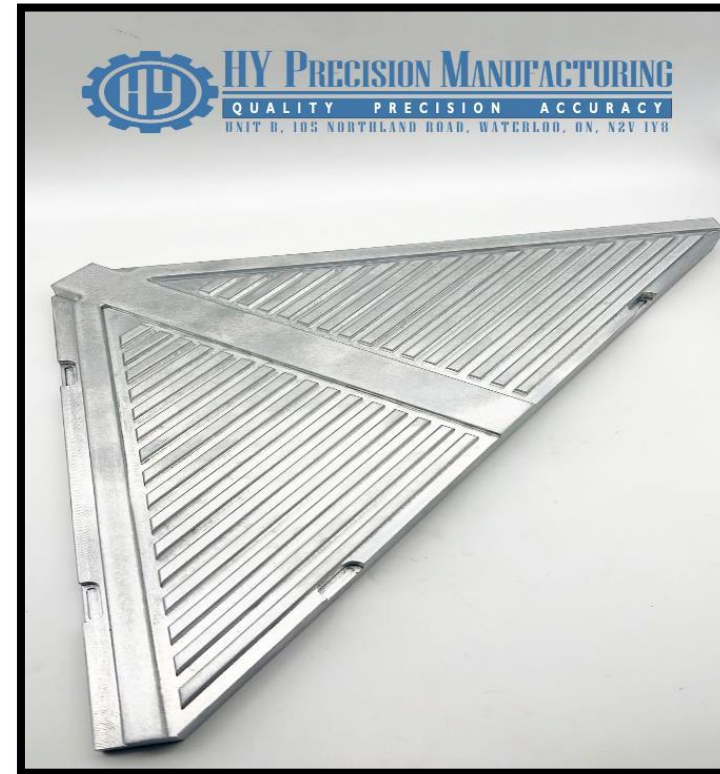
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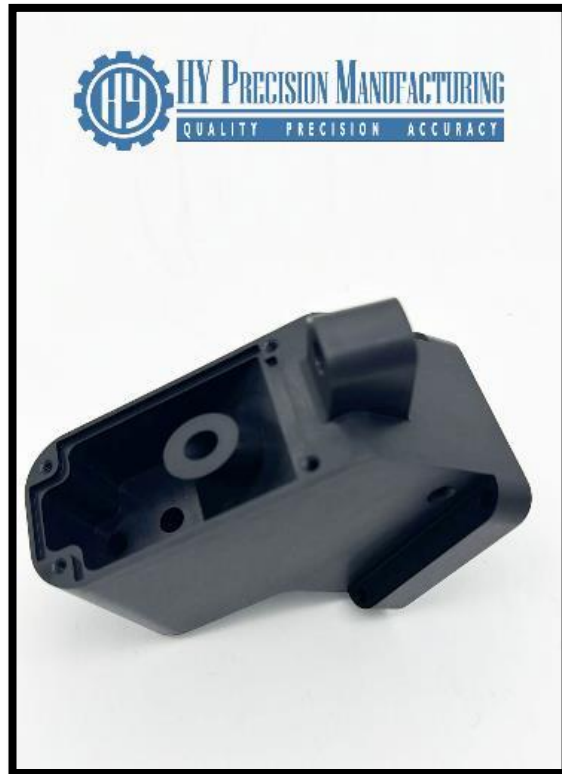
ALUMINIUM 6061



ALUMINIUM 6061



ALUMINIUM 6061



ALUMINIUM 2024

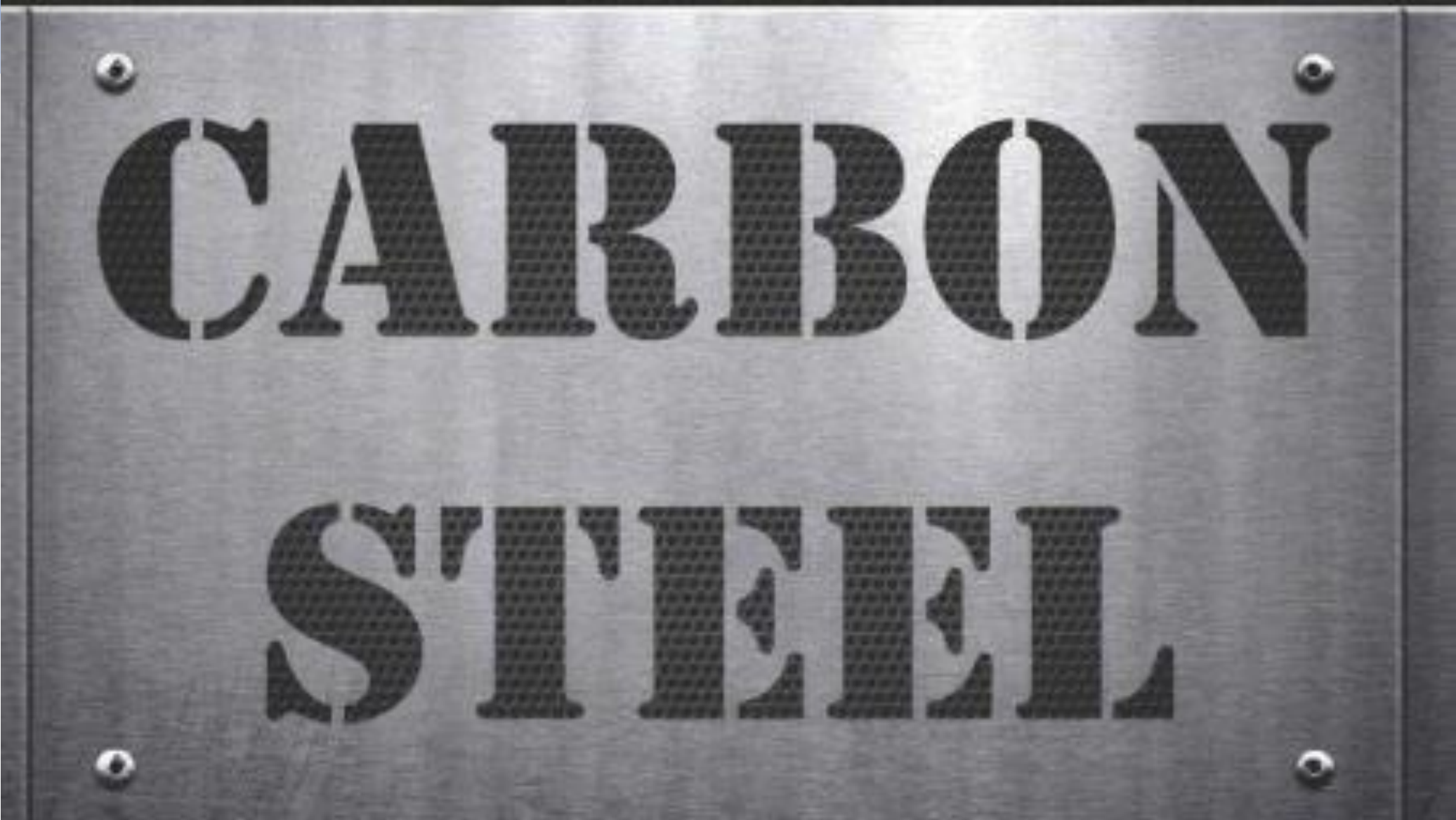


ALUMINIUM BRONZE



ALUMINIUM BRONZE



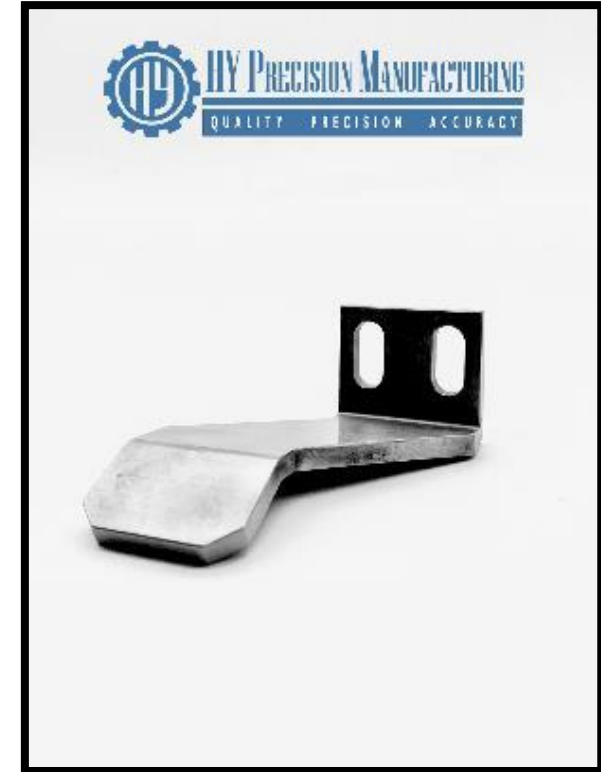
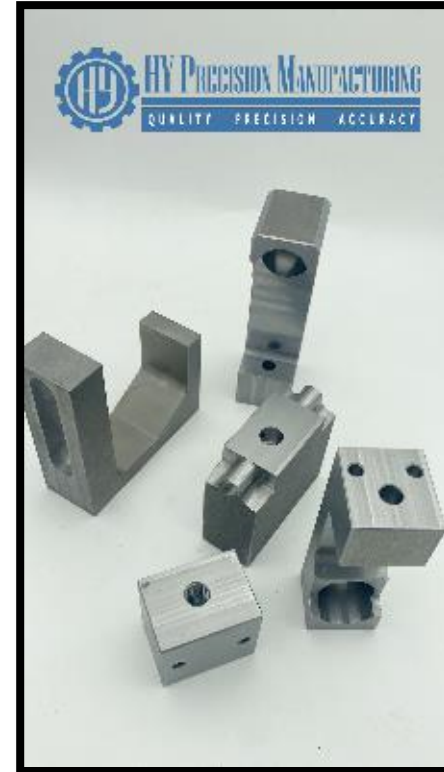


CARBON
STEEL

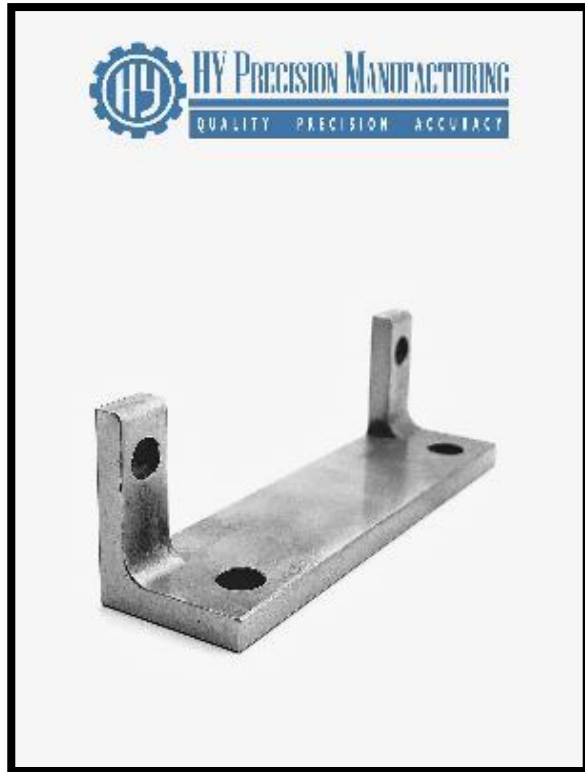
CRS 1018 (E-nickel coating)



CRS 1018



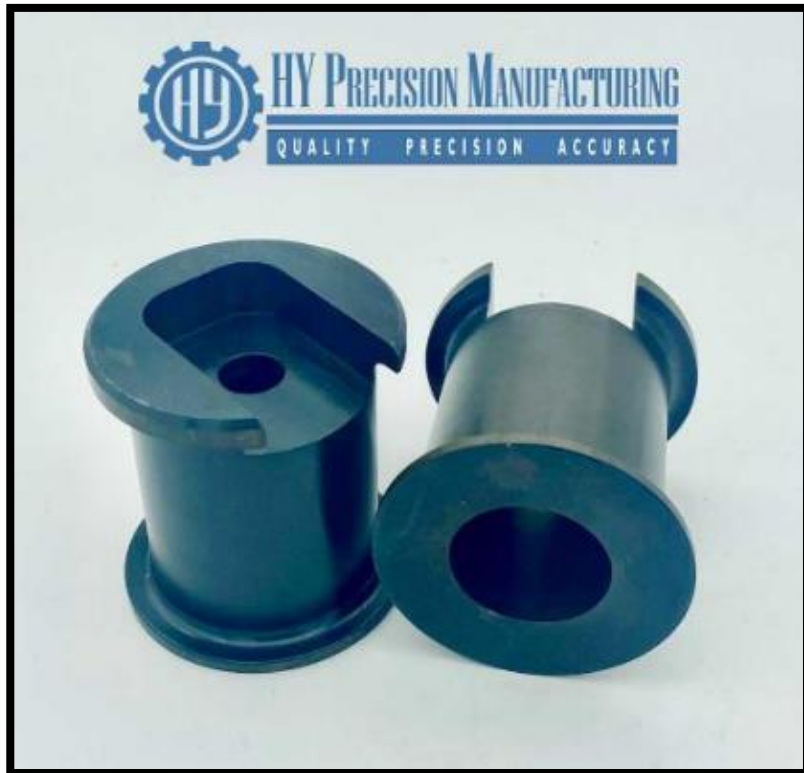
CRS 1018



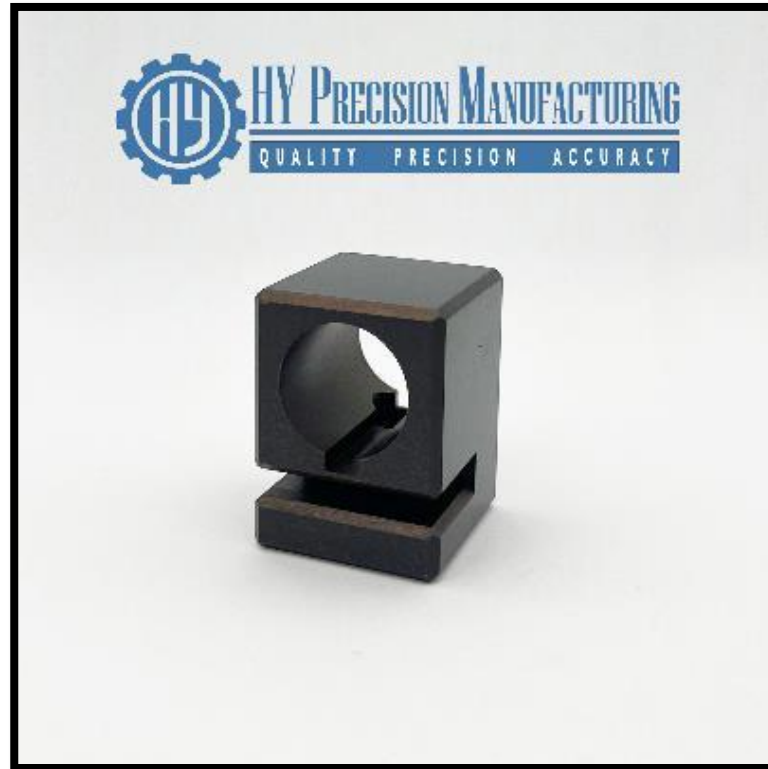
CRS 1018



CRS 1018 (Black oxidized)



CRS 1018 (Black oxidized)



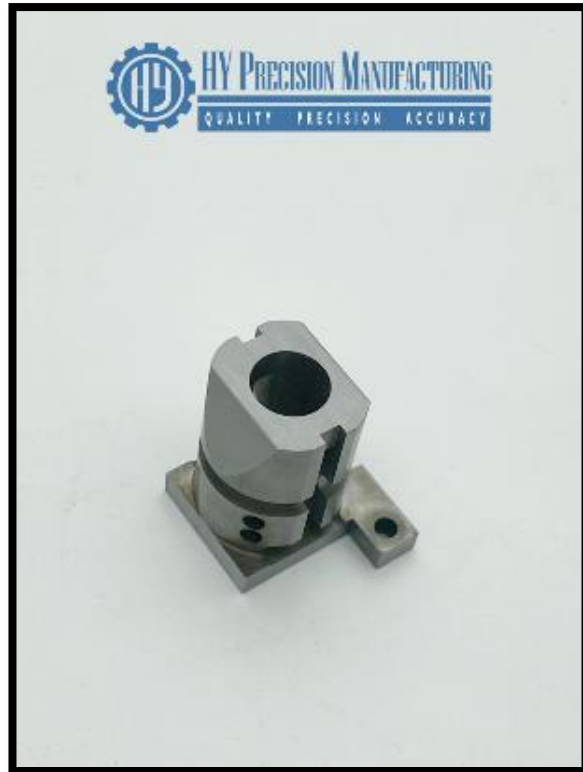
CRS 1018 (Clear Zinc)



Tool Steel/Alloy Steel

A thick, hand-drawn style orange line underlining the text.

4140 HT (HRC 28-32)



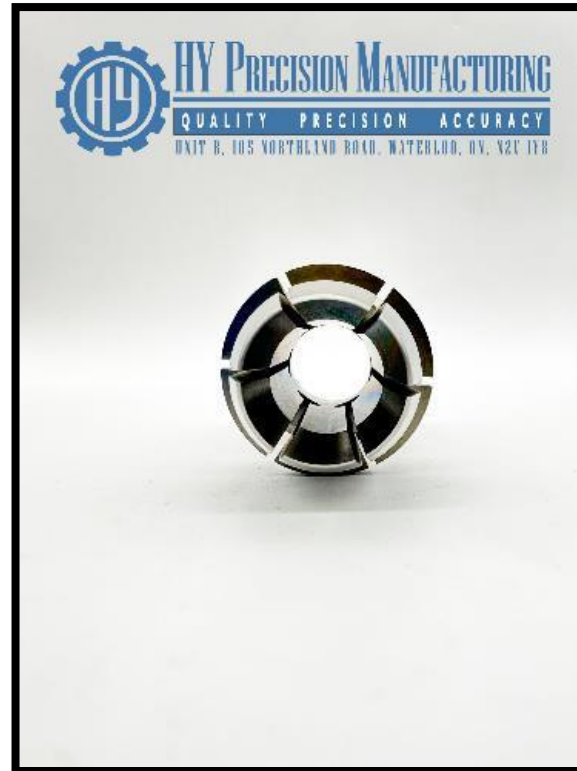
4140 HT (HRC 28-32)



4140 HT (HRC 28-32)



4140 HT (HRC 28-32)



4140 HT (HRC 28-32)



4140 HT (HRC 28-32) E-Nickel coating



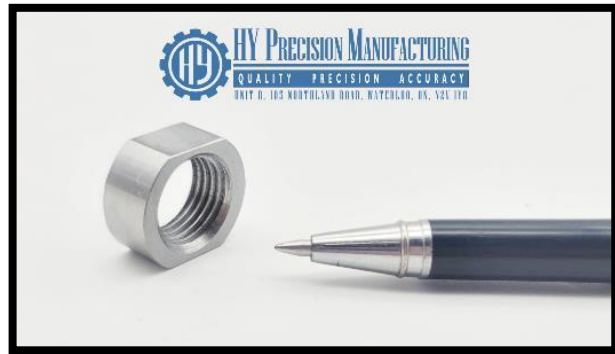
4140 HT – NITRIDED COLLETS



4140 HT (HRC 45)



4140 HT HRC 45



4340 HT HRC 45



DC53 Tool Steel HRC 45



A2 Tool Steel HRC 54-58



A2 Tool Steel HRC 54-58 (Hard Chrome)



A2 Tool Steel HRC 54-58



A2 Tool Steel HRC 54-58



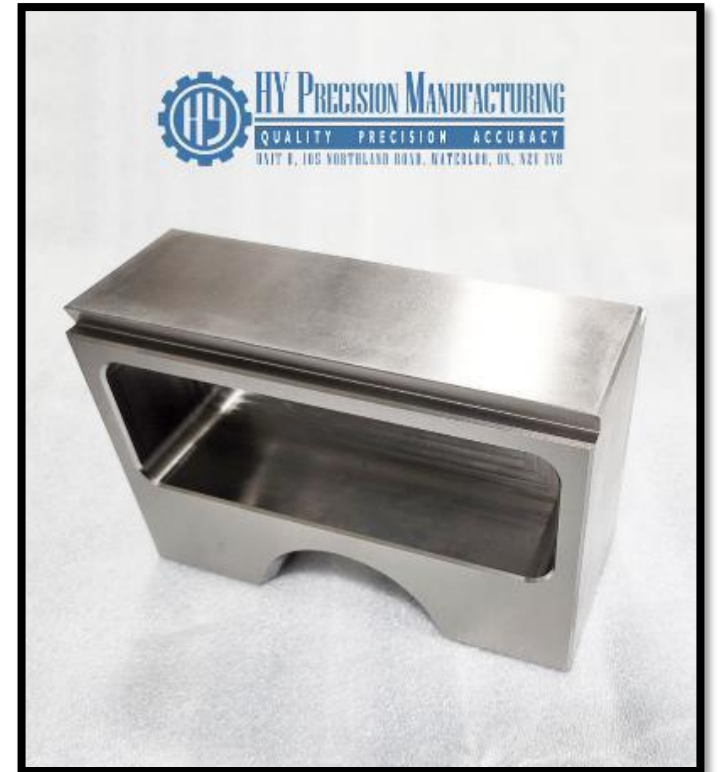
M2 Tool Steel



D2 Tool Steel HRC 54-58



O1 steel – HRC 48-52



O1 steel – HRC 55-62



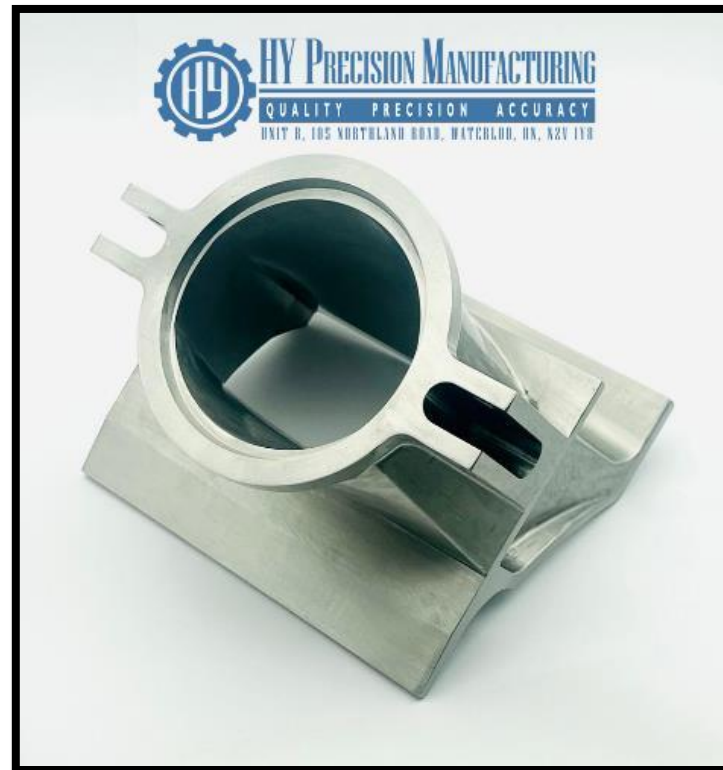
S7 steel – HRC 52-54 (E-nickel coating)





STAINLESS STEEL

304 Stainless Steel



304 Stainless Steel



304 Stainless Steel



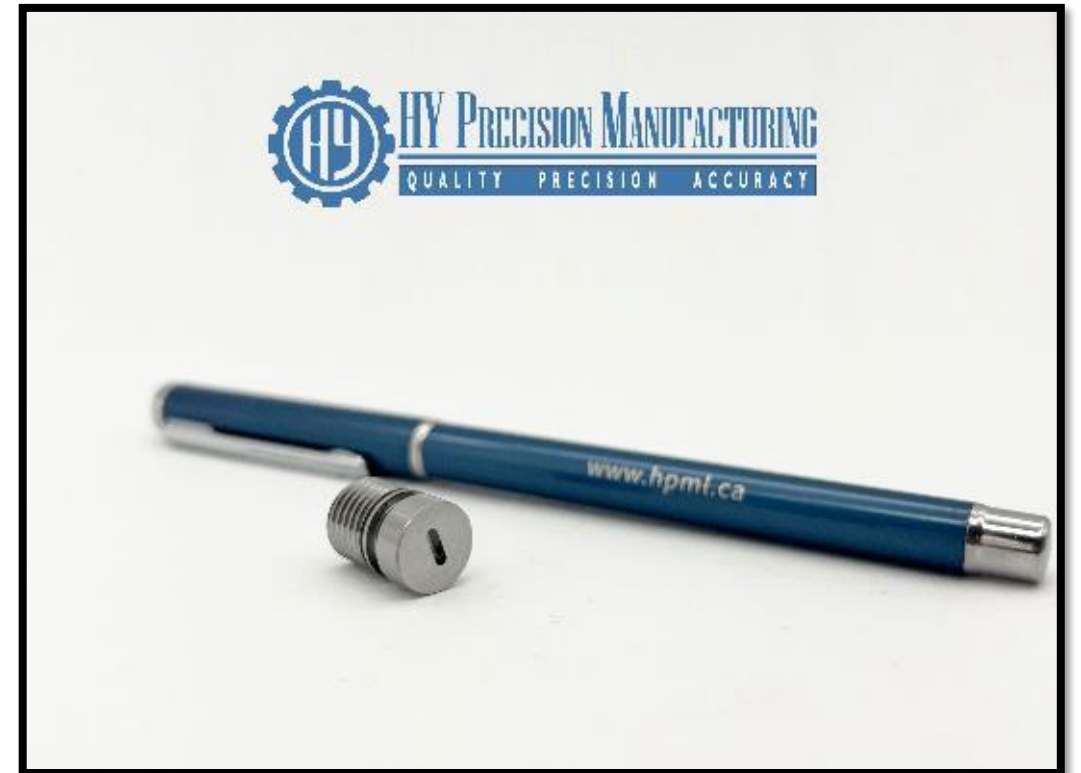
304 Stainless Steel



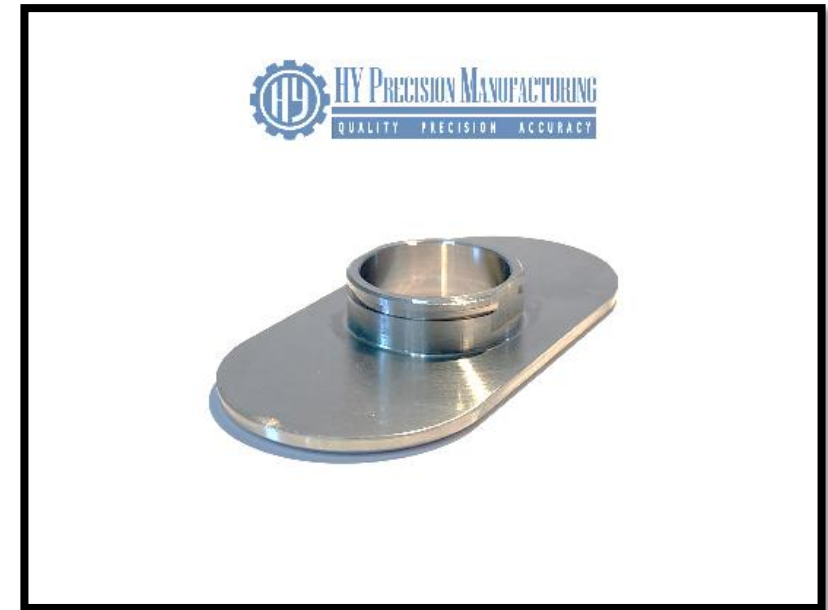
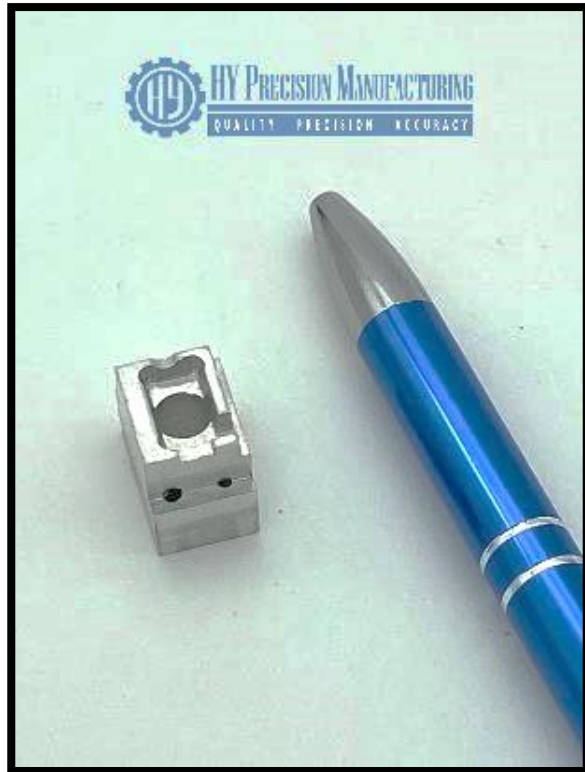
304 Stainless Steel



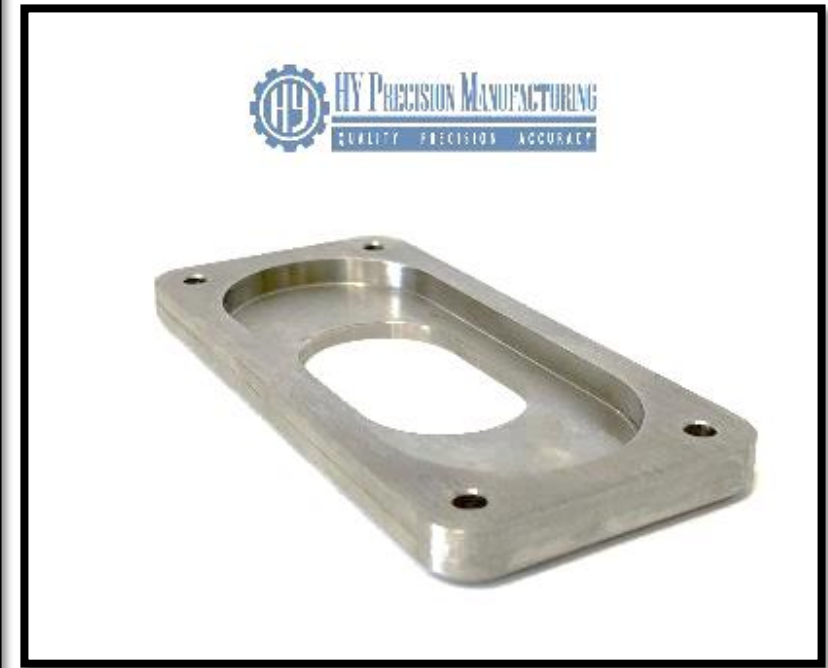
304 Stainless Steel



316 Stainless Steel



316 Stainless Steel



316 Stainless Steel



316 Stainless Steel



440C Stainless Steel



416 Stainless Steel



HY PRECISION MANUFACTURING

QUALITY PRECISION ACCURACY



17-4 PH Stainless Steel



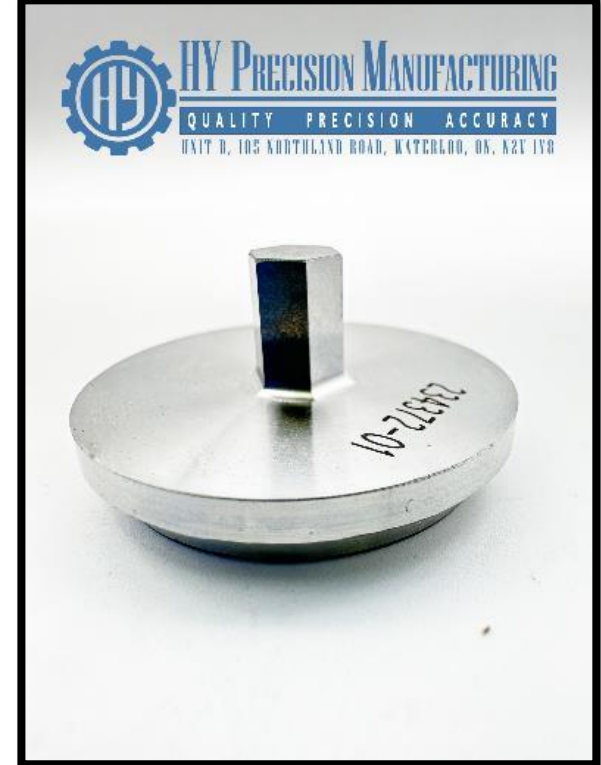
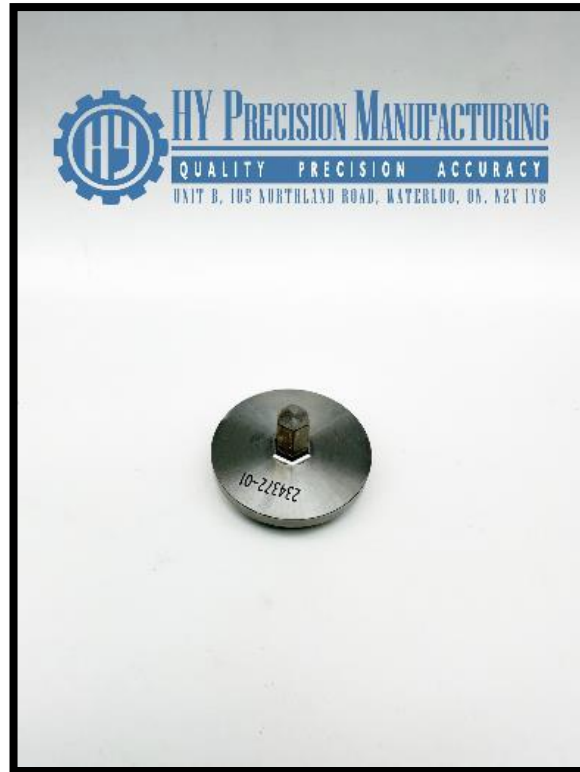
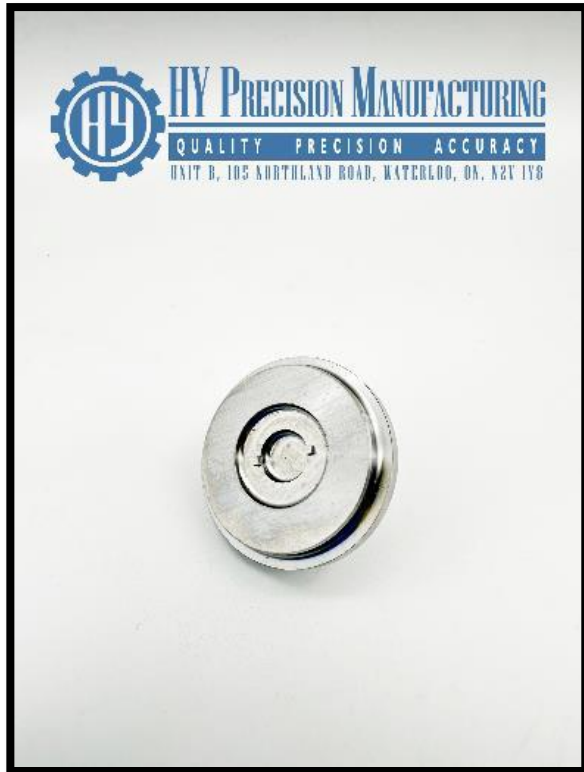
17-4 PH Stainless Steel



17-4 PH Stainless Steel



17-4 PH Stainless Steel



17-4 PH Stainless Steel



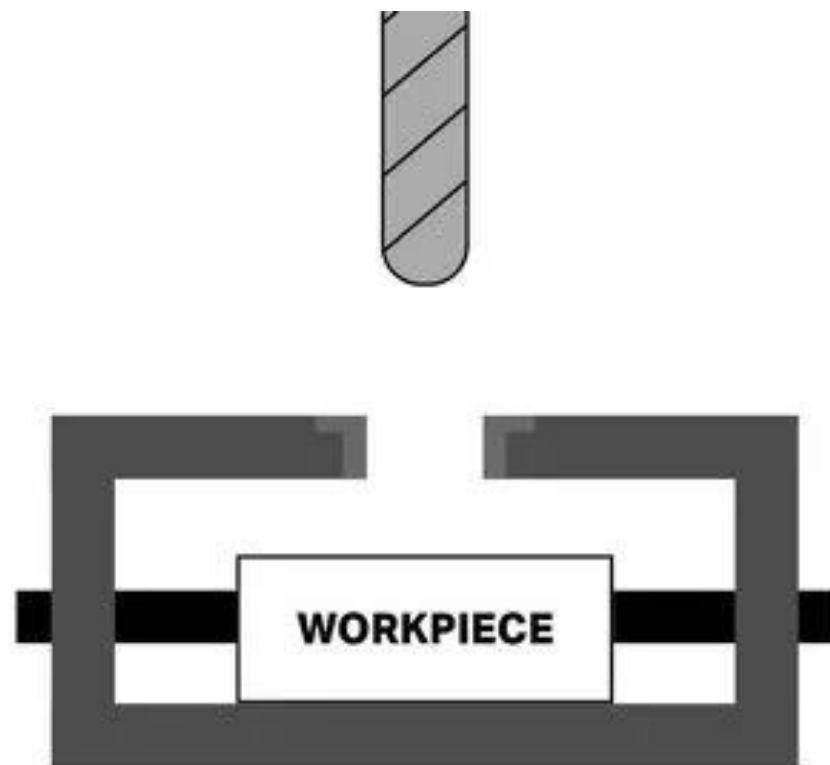
17-4 PH Stainless Steel



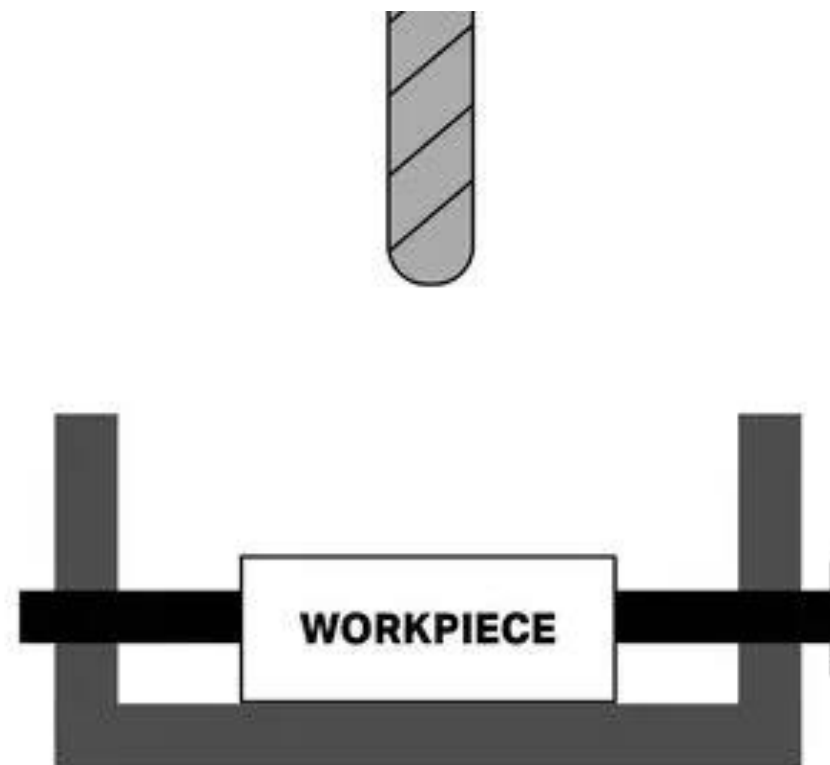
BRONZE

BRONZE





JIG



FIXTURE



QC Inspection Jigs – Go Gauge (Aluminium 6061 T6 and A2 Steel
HRC 48-52)

QC Inspection Jigs – Go & No-Go Gauges Aluminium 6061 T6 and A2 Steel HRC 48-52



WELDMENTS



Weldments



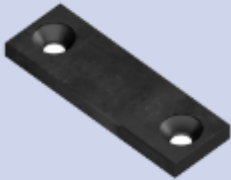
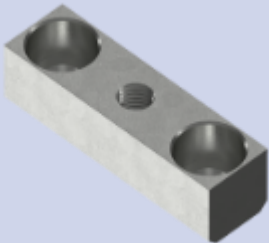
Assemblies



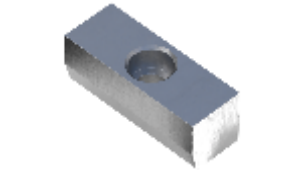
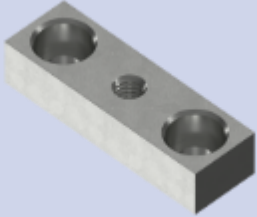
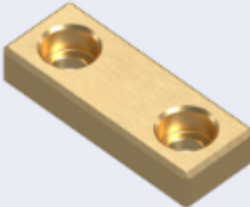
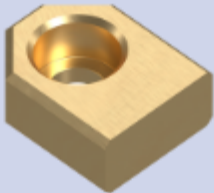
PLASTIC INJECTION MOLD INSERTS AND STANDARD COMPONENTS



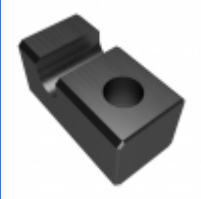
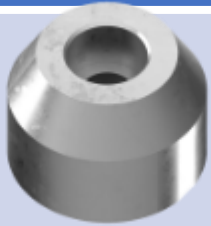
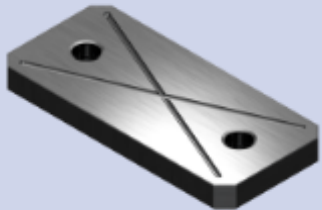
Plastic Injection Mold Standard Components

	Core Pin Back Plate/Wire Channel Cover Plates	CRS 1018, Black oxide coated
	Wire Cover Plate	CRS 1018, Black oxide coated
	Plaque Book Holder	CRS 1018, Black oxide coated
	Lifter Retainer Key	O1 HRC 38-40

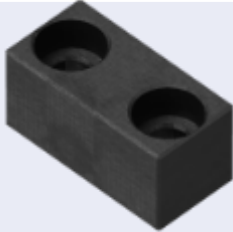
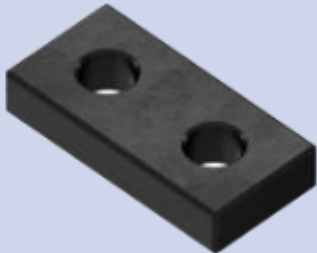
Plastic Injection Mold Standard Components

	Single Screw Lifter Retainer Key	O1 HRC 38-40
	Lifter Retainer Key	HHP 20
	Lifter Rod Lock & Bushing Retainer	AL Bronze
	Lifter Rod Lock & Bushing Retainer	AL Bronze

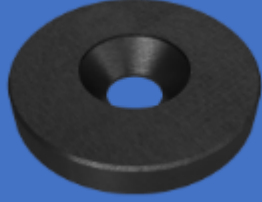
Plastic Injection Mold Standard Components

	Guide Rod Cover Plate	CRS 1018, Black oxide coating
	SRG Locator	H13 Case hardened steel
	Locating Ring	O1 harden HRC 50-55
	CUSTOM PRESSURE PAD	Material of Your Choice Machined to Your Design Pre-Harden to Your Specification Both sides Pre-Ground Delivered Ready To Be Installed

Plastic Injection Mold Standard Components

	Pressure Pad L Series	O1 harden HRC 50-55
	Knockout Rod Extension	Material of Your Choice Machined to Your Design Delivered Ready To Be Installed
	Slide Stops	CRS 1018, Black oxide
	Mold Straps	CRS 1018, Black oxide

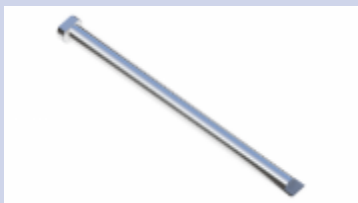
Plastic Injection Mold Standard Components

	Shoulder Plates	CRS 1018 Black oxide
	Cylinder Rod Lock	CRS 1018 Black oxide
	Hydraulic Yokes	CRS 1018 Black oxide
	Ejection Standoff & Ejection Stops	CRS 1018

Plastic Injection Mold Standard Components

	Stop buttons / Ejector box stops / Stop spacers	Material: Round Bar Steel Grinding Stock: 0.005" grind stock on nominal dimension Thickness Tolerance: +0.005"/-0.000" Prevents ejector plates from crashing into mold.
	IMPERIAL HARDENED NITRIDED EJECTOR PINS	1.2344, H13, SKD61
	IMPERIAL NITRIDED SLEEVES	1.2344, H13, SKD61
	METRIC DIN HARDEN NITRIDED EJECTOR PINS	1.2344, H13, SKD61

Plastic Injection Mold Standard Components

	Water Diverters	Solid Brass
	Split Bubbler Diverters	Solid Brass
	Split Bubbler Diverters	ALUMINIUM 6061
	CUSTOM DETAILED EJECTOR PIN MACHINING	1.2344, H13, SKD61

CUSTOM DETAILED EJECTOR PIN MACHINING



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