PRECISION TECHNOLOGIES

Materials used by Precision Technologies

Category	Material Type	Common Grades
Steel (All Series)	• Carbon Steel	1018, 1045, 1144, 1215, A36, A516 Gr 70
	• Alloy Steel	4130, 4140, 4340, 8620
	• Tool Steel	D2, A2, O1, S7, H13
	• Free-Machining Steel	12L14, 1215
Stainless Steel	• Austenitic	303, 304, 304L, 316, 316L, 321, 347
	• Martensitic	410, 416, 420, 440C
	• Duplex	2205, 2507
	• Precipitation Hardening	17-4 PH, 15-5 PH
	• Ferritic	430, 434
Specialty Alloys	• Hastelloy	C-22, C-276, X
	• Monel	400, K-500
	• Inconel	600, 625, 718, 800H
	• Nickel Alloys	Nickel 200, 201
	• Copper Alloys	C101, C110 (Electrolytic Tough Pitch)
Brass	• Free-Machining Brass	C36000 (C360)
	• Naval Brass	C46400
	• Leaded Brass	C38500
Bronze	• Phosphor Bronze	C51000, C54400
	• Aluminum Bronze	C95400
	• Silicon Bronze	C65500
Aluminum	• Wrought Alloys	6061, 6063, 7075, 2024, 5052, 5083, 5086, 1100, 3003
	• Cast Alloys	A356, A380
Titanium	• Titanium Grades	Grade 2 (Commercially Pure), Grade 5 (Ti-6Al-4V)
Plastics	• Acetal (Delrin)	Homopolymer (Delrin 150), Copolymer
	• Nylon	Nylon 6, Nylon 66, Moly-filled Nylon
	• Ultem	All
	• PTFE (Teflon)	Virgin PTFE, Glass-filled PTFE
	• UHMW (Ultra High Molecular Weight Polyethylene)	Standard UHMW
	• PEEK (Polyetheretherketone)	Standard PEEK, Glass-filled PEEK
	• Polycarbonate	Lexan
	• PVC (Polyvinyl Chloride)	Type I, Type II
	• ABS (Acrylonitrile Butadiene Styrene)	Standard ABS
	• HDPE (High-Density Polyethylene)	Standard HDPE
	• Polypropylene	Homopolymer, Copolymer
	• G10/FR4 (Epoxy Glass Laminate)	Standard G10/FR4