HYBRID CNC PARTS

MULTISCALE GROUP

HIGH-PERFORMANCE MATERIALS

Material Matter Expertise

When it comes to critical parts—whether they're corrosion-resistant bearings, durable mold tools, or lightweight automotive components—material selection is essential.

From commodity to cobalt-chromium, Hybrid CNC Parts has the expertise to help you select the most suitable materials for your application—and the technical skills to engineer and machine it.

We provide:

- High-performance alloys and superalloys.
- Functionally-graded materials.
- Near-net shape, fully-dense metal hybrid manufacturing.
- Reliable feedstock options.

Hybrid Possibilities

We work with hard-to-machine, heat-resistant materials that offer exceptional benefits, but are often overlooked due to expense, supply chain instability, and processing difficulty.

Our **wire-laser hybrid manufacturing** method utilizes efficient near-net shape printing, targeted functional grading, and readily available wire feedstock—making these high-performance materials and their benefits accessible to our customers.

Materials & Relative Properties

A selection of the materials we work with and their relative property applicability.

Material	Lightness	Heat Resistance	Corrosion Resistance	Hardness/Wear Resistance	ISO Group	Example Grades	Hybrid Compatible
Nickel	–	■■■	■■■	■■	**ISO S** Heat-Resistant Superalloys	Inconel® 625, 718, X-750 Hastelloy® C-276	✓
Cobalt	–	■■■	■■■	■■■	**ISO S** Heat-Resistant Superalloys	Stellite® 6 Haynes® 188 Ultimet®	✓
Titanium	■■	■■	■■	–	**ISO S** Heat-Resistant Superalloys	Grade 2, 5	✓
Stainless Steel	–	■	■■	■■	**ISO M** Stainless Steel	304, 316, 440C, 17-4H	✓
Carbon Steel	–	–	–	■	**ISO P** Steel	1018, 1045, A36	✓
Tool Steel	–	■■	■	■■■	**ISO H** Hardened Materials	H11, H13, M2, M50, T1, D2	✓
Aluminum	■■■	–	■	■	**ISO N** Non-Ferrous Metals	6061, 7075	

Hybrid CNC Parts
508-461-9412
office@hybridcncparts.com
hybridcncparts.com
49 Canterbury Street, #500
Worcester, MA 01610
A **Multiscale Group** Company
multiscalegroup.com