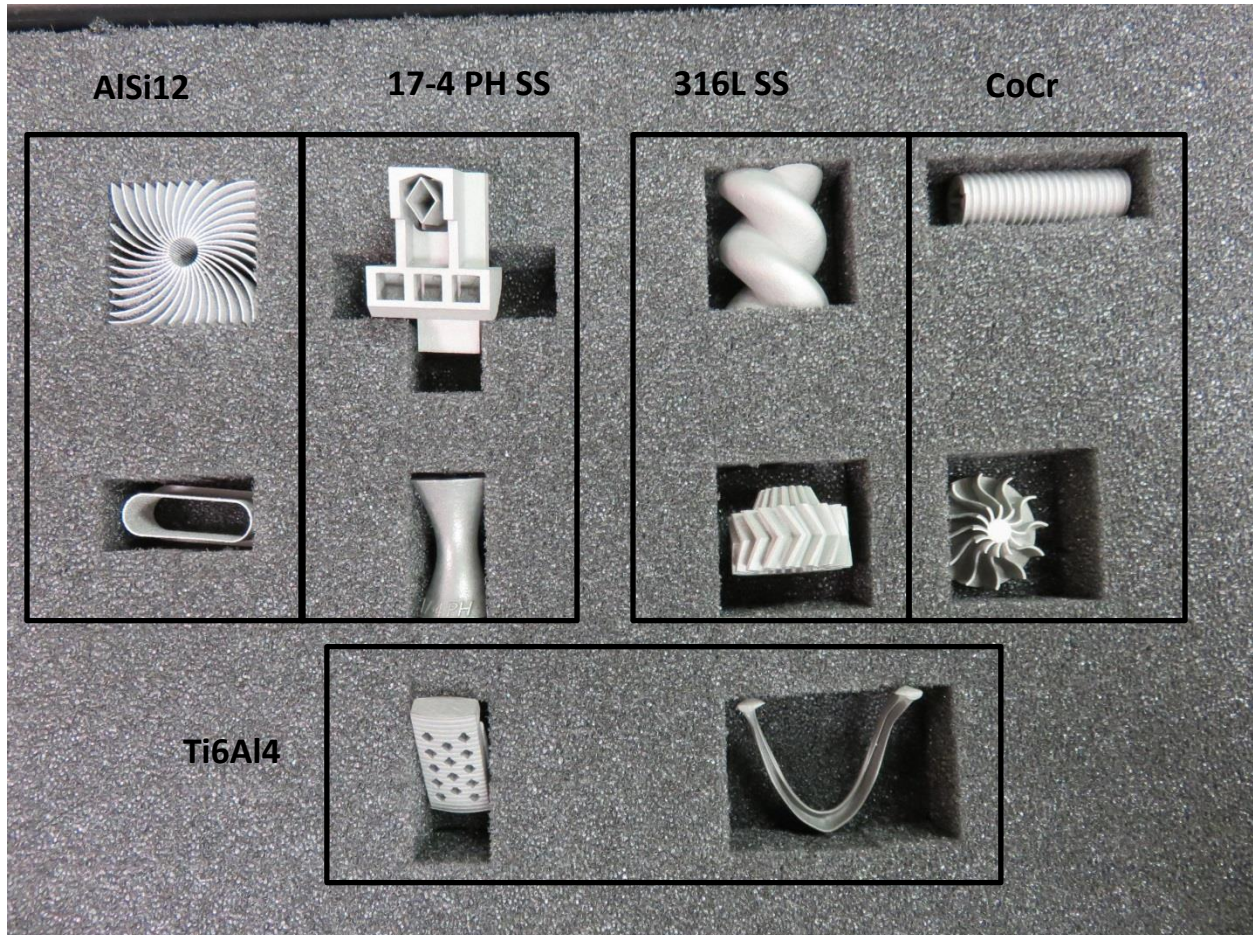


3rd Dimension LLC • 7168 Zionsville Rd • Indianapolis, IN 46268 • 317.677.4776



Thank you for your purchase of a metal sales kit from 3rd Dimension Industrial 3D Printing. We are more than happy to assist with benchmarks and helping your customers take the first step in Direct Metal Printing.

With the exception of the polished 17-4 piece, all parts in this kit have minimal post processing. In fact, a light abrasive blast is all that is needed to obtain the finish on these parts. This leaves all sharp edges and other features intact.

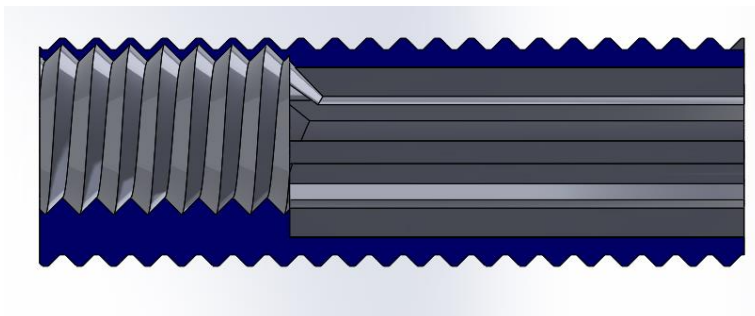
AISi12 - These demonstrate the ability to grow thin wall aluminum parts. Note the center section of the square block and that the fins are not joined. This illustrates the level of precision that is attainable.

3rd Dimension LLC • 7168 Zionsville Rd • Indianapolis, IN 46268 • 317.677.4776

17-4 PH SS – The slide part has a significant amount of difficult, if not possible to machine, geometry. In addition to the square holes, take a look down them and note the “174” de-bossed lettering. The polished part shows the ability to produce complex internal geometries with ease.

316L – One of the big advantages is using additive manufacturing to achieve conformal cooling passageways. This means placing a cooling or heating channel right next to the skin of a mold. This is hard to demonstrate so this piece allows you to show the concept in an easy to see and visualize manor. The gear was designed with the chevron pattern to demonstrate some of the capabilities where this technology has an advantage over machining. The chevron pattern as well as internal blind splines would be quite difficult to produce any other way.

CoCr – The threaded piece shows both the capability to produce internal and external threads. The offset internal thread matches the external thread and is positioned precisely to create a thin wall between the threads.



Ti6Al4V – Titanium is a difficult and expensive material to work with. Rather than leaving dollars on the floor in the form of chips, DMP is fantastic for getting near net or finished parts. These parts demonstrate the level of detail and surface finish available in Ti6Al4V. The small jaw shows the ability of the technology to produce highly complex shapes with ease.