

## China Precision Metal Spinning Services - BE-CU Prototype

Metal spinning services including aluminum spinning services, copper spinning services, stainless steel spinning services



**Balgowlah, Australia Sep 11, 2024 ([Issuewire.com](https://www.issuewire.com))** - What is spinning technology, also known as metal spinning forming technology, by rotating the force point from point to line to line to surface, and at the same time giving a certain pressure in a certain direction to deform and flow the metal material along this direction The technology of forming a certain shape.

Here, the metal material must have plastic deformation or flow properties. Spinning(As Stainless Steel [Large Metal Spinning](#) and more) is not equivalent to plastic deformation. It is a complex process integrating plastic deformation and flow deformation. It should be pointed out in particular that the spinning forming technology we are talking about is not a single strong force. Spinning and ordinary spinning, it is a combination of the two; strong spinning is used for the processing technology of spinning and forming shells of various cylinders and cone shaped bodies, which is an old and mature method and process. It's called rolling.

In mechanical products, how to save raw materials but improve product quality, reduce product weight but prolong service life, reduce product manufacturing cost and energy consumption but reduce Sheet Metal Fabrication man-hours has always been a concern. For example, "V" pulley (commonly known as "V" pulley) is one of the most widely used mechanical transmission parts, and it is of great significance if it can be formed from steel plates.

Compared with the traditional cast iron pulley, the sheet pulley can save more than 70% of raw

materials. Sheet metal spinning pulleys formed by drawing-spinning of sheet metal are the latest and best pulley structure. This kind of pulley not only has the advantages mentioned above, but also has no environmental pollution and is especially widely used in various mechanical products such as automobiles, tractors, harvesters, and air compressors. The steel sheet blank is made by plastic deformation from point to line and from line to surface on a special pulley spinning machine. Spinning pulleys generally have three basic forms: folding pulleys, split pulleys and rolling multi-V pulleys (also known as multi-ribbed pulleys).

The advantage of spinning pulley compared with cast iron pulley is that it is made by spinning process (chipless processing), light in structure and material saving, so the moment of inertia is small, and it is a new product that saves material([aluminum spinning](#)) and energy. High production efficiency (2 to 4 pieces per minute), good balance performance, generally no need for balance treatment. Since the material flow line is not cut off, the surface is hardened by cold work, the density of the structure is increased, the strength and hardness of the surface of the wheel groove are improved, and the dimensional accuracy is high, the slip between the V-belt and the wheel groove is small, and the belt life is long.

### CDC-S60 Vertical CNC Spinning Machine - Innovation by Pintejin Group

The pulley spinning process and equipment is an advanced technology. In the pulley spinning process, a series of folding pulleys, split pulleys, rolling multi-V pulleys and combined pulleys have been obtained. The scientific research results have solved various technical problems in spinning in both theory and practice, and have been successfully used in production. However, compared with Germany's spinning technology, our country still needs to work hard, because many products in our country still need to be imported, especially some parts in automobiles.

### Spinning Product Brief - Innovation by Pintejin Group

CDC-S series CNC spinning machine is a special equipment for producing spinning pulley. As a new technological product, spinning pulley has been widely used in automobile engines, such as motor pulleys, water pump pulleys, air conditioning pulleys and fan pulleys. According to the groove type and processing technology of the pulley, it can be divided into three categories: split pulley, folding pulley and multi-wedge pulley. Due to the different structural characteristics of these three types of spinning pulleys, their processing techniques are also different.

The thickness of the material selected for the multi-wedge wheel is 2-6mm, generally 3mm. The billet is made by deep drawing and stamping, and processed on a spinning machine. Since the tooth shape is formed by extrusion on the material wall thickness to generate metal flow and plastic deformation, there are many factors that affect the final quality of the product, including upper and lower dies, rotary wheels, process parameters, and material materials. In the future process analysis and mold design will be introduced in detail.

The thickness of the material selected for the folding wheel is 1.5 to 2.5 mm, which is also formed by deep drawing and metal stamping methods, and processed on a spinning machine. Since the folding wheel does not have metal flow during the forming process, the process is relatively simple, and there are not many factors affecting the quality.

The material thickness of the splitting wheel is 2 to 4 mm. Generally, one-time blanking is used, and the rotary wheel is used on the spinning machine to split from half the thickness of the material and then shape it. Because its processing technology is relatively simple, there are not many factors affecting the

quality, the most important is the flatness of the blank itself. Therefore, the requirements for stamping dies for blanking are relatively high.

Be-cu.com- best [metal spinning china](#) company can large or small production runs for steel up to 10 gauge & other metals including aluminum, brass, copper, nickel & nickel alloy, exotic & precious. Maximum spun diameter is 52 in. Capabilities include punching, notching, laser cutting stainless steel, press break, fabrication, in-house tooling, welding, trimming & light sampling. Thicknesses processed include 0.015 in. to 120 in. for alloys & up to 0.190 in. for aluminum.



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