

## Drawing Die



### Introduction

Tungsten alloy is a kind of alloy composed of some metal elements, among which tungsten is the key element. In all metal materials, tungsten has the highest melting point, high temperature, strength and creep resistance, thermal conductivity, and good electron emission performance. Tungsten are widely used to manufacture cemented carbide and [tungsten alloy](#). Tungsten alloy are widely used in electronics, electric light source industry, also in the aerospace, casting, weapons, etc. After reasonable processing, tungsten alloy can be processed into good material. With the improvement of tungsten alloy, its organization, tensile strength and plastic - brittle can be greatly improved. Toonney tungsten alloy plant applies pure tungsten alloy to manufacturer high quality carbide dies, precision die and drawing die.

Drawing die usually refers to a variety of control wire mould, as well as optical fiber drawing die. All the center of the drawing die has a certain shape hole, such as round, square, octagon, or other special shapes. The size of metal will get smaller when it is pulled through the drawing die hole. Sometime even the shape will change. Drawing die are widely used in different industries, such as electronics, radar, TV, instruments and spaceflight industry. Drawing die is a very important consumable mould for all kinds of metal wire manufacturers, such as wire and cable factory, wire works, electrode wire factory and so on. Wire drawing die has an extensive scope of application, mainly for the drawing bar, wire rod, wire, pipe and other linear difficult to process. Drawing die is fit to the drawing processing of steel, copper, tungsten,



molybdenum and tungsten alloy material. The drawing die costs accounted for about 1/2 of the cost of wire drawing. Therefore, how to decrease the cost of drawing die and improving the service life of drawing die is an urgent problem to solve. Toonney [drawing die plant](#) has devoted in these two problem for years and get a good solution.

Toonney carbide dies manufacturer has specilized in carbide dies designing and producing for more than five years. Carbide dies performs and finished carbide dies produced by Toonney carbide dies manufacturer has high hardness, high strength, corrosion resistance, resistance to high temperature and low expansion coefficient. The service life of carbide dies is much longer than the service life of steel dies. Toonney carbide dies manufacturer is willing to offer more details about carbide dies. Welcome to Toonney carbide dies manufacturer.

The service life of [precision die](#) is a major obstacle to vigorously promote new technology of fine blanking. One of the main reasons is that the material of precision die is improper and heat treatment process is not perfect. Toonney precision die plant devotes itself to studying the present situation of precision die at home and abroad. Learning from foreign advanced experience, especially the experience of Swiss Feintool AG Lyss precision die manufacturer, Toonney has developed tungsten carbide grades RKG,XK,RVA, RST,G series grade tungsten carbide for different drawing die use, select the most suitable grades for your special use will certainly help you to get the best performance and prolong the life time of your drawing die. Besides the format development of tungsten carbide material, Toonney also prolong the life time of dies through special procession such as HIP low pressure sintering to get better toughness of carbide dies.

In one word, Toonney precision die factory gets a good solution on the material selection and heat treatment of precision die. If you want know much about precision die, please feel free to contact us!

Samples Matters: drawing die, carbide dies and precision die which can be available from our common regular inventory, can be offered as samples for free. For some drawing die, carbide dies and precision die with irregular customer special required, will be charged. Of course, customers need to pay for the shipping fee. Usually, the lead time of the samples will be within 7working days.

Minimum Order Quantity: There is no minimum order quantity of drawing die, carbide dies and precision die for the first trial order. But on the second order, the total amount of drawing die, carbide dies and precision die should be not less than 1000USD.



## Specification

| Grade | Density              | Hardness | Hardness | TRS  | Compression strength | KIC      |
|-------|----------------------|----------|----------|------|----------------------|----------|
|       | (g/cm <sup>3</sup> ) | (HRA)    | (HV)     | MPA  | GPA                  | MPA.m1/2 |
| GA10  | 14.40                | 92.0     | 1865     | 3600 | 5.9                  | 14       |
| RKG2  | 14.93                | 90.2     | 1586     | 3200 | 4.1                  | 17       |
| RKG3  | 14.61                | 89.3     | 1447     | 3300 | 4                    | 18       |
| RKG4  | 14.31                | 89.2     | 1431     | 3400 | 3.9                  | 19       |

Tonney drawing die plant can accept customized tungsten products.

## Features

Product name: [Drawing die](#)/ carbide dies  
Place of Origin: Fujian, China (Mainland)  
Brand Name: Toonney  
Model Number: DI  
Type: Drawing die/carbide dies  
Material: tungsten alloy  
Tolerance: As required.  
Grade: GA10, RKG2, RKG3, RKG4  
Size: As required  
Port: Xiamen  
Payment terms: FOB Xiamen

## Application

1. GA10 precision dies  
( Density of tungsten alloy material: 14.4; HRA of tungsten alloy material: 92)  
This kind of precision dies can be applied to heading dies such as big dia. tube drawing die, powder shaping die, nut and bolt die.
2. RKG2 precision dies  
( Density of tungsten alloy material: 14.93; HRA of tungsten alloy material: 90.2)

This kind of precision dies can be applied to heading dies such as big dia. tube drawing die, powder shaping die, nut and bolt die.

3. RKG3 precision die  
( Density of tungsten alloy material: 14.61; HRA of tungsten alloy material: 89.3)  
This kind of precision die can be applied to heading dies such as big dia. tube

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drawing die, powder shaping die, nut and bolt die.

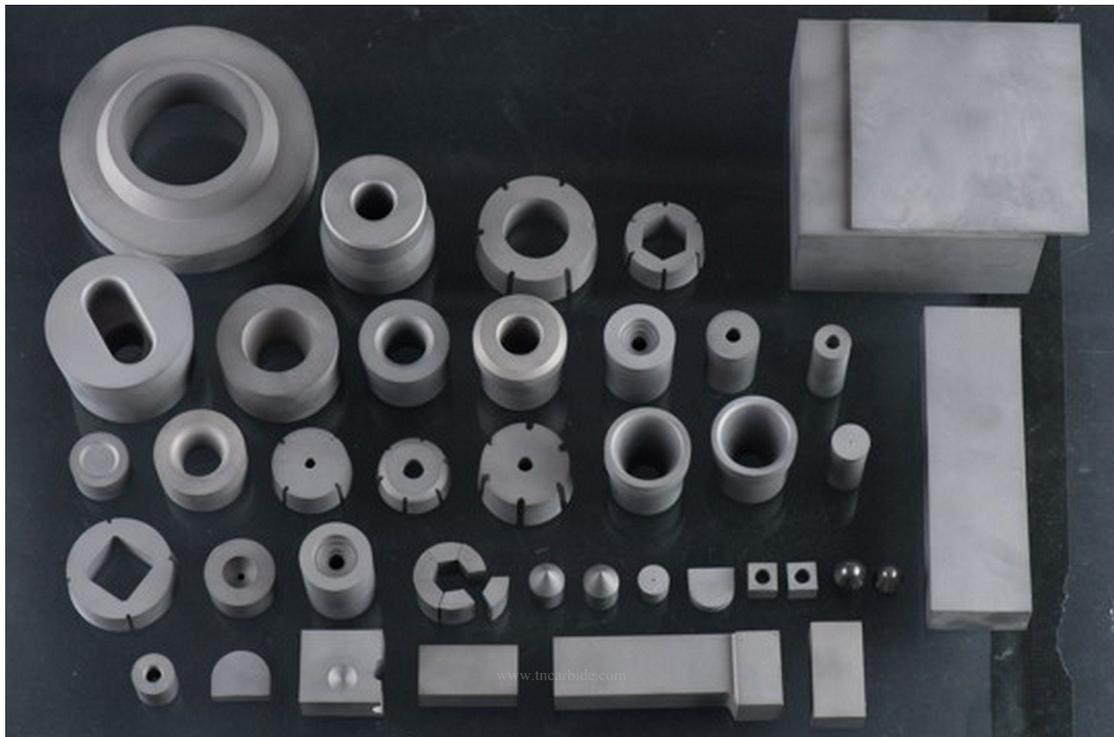
4. RKG4 precision die

(Density of tungsten alloy material: 14.31; HRA of tungsten alloy material: 89.2)

This kind of precision die can be applied to cold heading dies such as big dia. tube drawing die, powder shaping die, nut and bolt die.

### Advantage

1. Toonney [tungsten alloy manufacturer](#) uses high quality tungsten alloy material to produce drawing die, carbide dies and so on.
2. Toonney [drawing die manufacturer](#) has more than 10 years production experience and a professional team for designing.
3. Toonney [carbide dies manufacturer](#) pays more attention to improve their product ability. Toonney carbide dies factory uses the most advanced equipment.
4. Toonney drawing die factory can accept customized order of drawing die, carbide dies, precision die and so on.
5. Toonney carbide die plant applies high quality tungsten alloy with good wear resistance, high hardness and impact toughness.



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