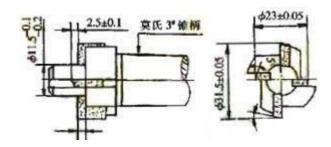


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Different -tooth cutter diameter countersink applications



When machining the parts shown in Figure 1, the Z3032 radial drilling machine processing. Process as follows: 1) to Ø14.5 + 0.1 guiding the guide hole countersink cutter Ø23 × Ø14.5 processing Ø23 hole: ② to Ø14.5 + 0.1 guiding the guide hole countersink cutter Ø31.5 × Ø14.5 processing Ø31.5 Kong . Since the two were working countersink cutter axial dimension 2.5mm requirements is difficult to ensure.

1 countersink tool knife in the original design of our foundation, bold design, different diameter countersink cutter tooth propose a new method, and ultimately solve the above problems, the tool shown in Figure 2, the two blades of teeth arranged Ø31.5 ± 0.05, while the other two blades of teeth configured to generate Ø23 ± 0.05, 2.5 ± 0.1 by the axial dimension of the tool in the production of the tool grinder to be guaranteed.

Ø31.5 tooth blade selection: (31.5-14.5) ÷ 2 = 8.5 to take a blade width of 10mm, length not too long, you can choose A112. Ø23 selection of tooth blade: Because axially extending long 2 + 2.5 = 4.5mm, the length should be at least 12mm, otherwise, easily breaking the blade, small Ø23 diameter, blade too thick, too thin blade on the obvious, easy to make cutter body force cracking: blade is too thin, when countersink processing, the blade itself is easy to break. Based on the experience to take 3.5mm, select D214 blade can be.

2. Conclusion The three-month trial, the effect is better, save time and ensure that the size and improve the efficiency and reduce consumption, to achieve the desired purpose, is a traditional knife countersink expansion mode.