

What are diamond dressers and what are they used for?

Diamond dressers are primarily tools that are used in diverse industries for performing the function of dressing and truing. Depending upon their type and design, these dressers can be used for dressing of diverse kinds of grinding wheels.

Dressing refers to the procedure of exposing the abrasive grains by removing the wheel bond. It is also used to allow space between the abrasive grains, to enable the flowing or passing of chips. Since abrasives turn blunt and their cutting efficiency reduces over the time, it is essential to regularly dress the grinding wheels.

Truing is the method of making the job axis concentric with the machine axis and also to make the face of the job and the machine parallel to each other. Since continuous use of the grinding wheel leads to its wearing, doing truing of the wheel also helps in restoring the form and geometry of the wheel.

However, excessive truing of the wheel is not advisable, as in this process, the diamond point of the dresser works upon the top of the abrasive, making it slightly blunt.