

# VARIODRILL

## PCB DRILLING SYSTEM

VARIODRILL is a PCB drilling machine for prototypes and small batch production.

The demand for operating comfort and high quality has led to an untraditional design which meets the necessary requirements for an ergonomic correct working position.

### Features:

- comfortable working position, drill table can be tilted up to 30°
- magnifier optics directly over the drill hole (parallax free)

- Illuminated work area
- Motor controlled, adjustable stroke speed, spindle underneath the table
- Infinitely adjustable 10.000 ... 30.000 RPM
- AC Motor, 100 Watts / 230 Volt
- Including foot switch for easy operating
- Booth hands are free for positioning the PCB
- Complete system with integral dust extraction
- Including external vacuum cleaner
- Throat depth: 115 mm, max. board size 230 mm x endless
- Chuck: 1/8" (3.2mm)
- Drill size 0.6 to 3.2 mm



### VARIODRILL

Chuck:	3.175 mm
Size (WxDxH):	340 x 240 x 175 mm
Weight:	approx. 7 kg
Power supply:	220 V~, 50Hz, approx. 0,6 kW + vacuum cleaner

# DRILLS AND ROUTERS

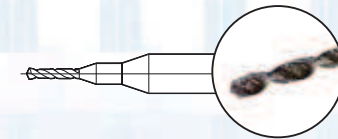
## SOLID CARBIDE

High quality, precision ground solid carbide drill and routing bits with 3.175 mm (1/8") shaft.

All tools have 7.5 mm wide collets with a distance of 21 mm from the tip to the upper side of the collet.

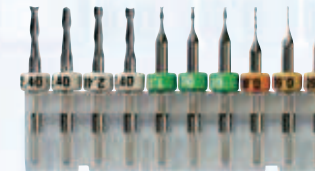
The tool rings show the diameter or are colour coded. Tools come in re-usable plastic boxes.

Within one class of price, tools with different diameters can be mixed to give one unit of 10pc.



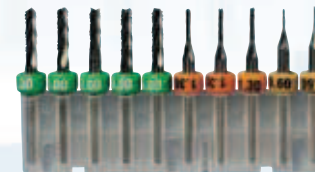
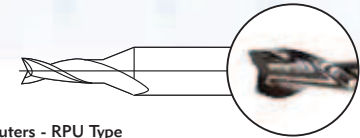
### Tungsten Carbide Drills for drilling PCBs

Two flutes, righthand turn. Diameter: 0.3 ... 3.0 mm in 0.1 mm increments



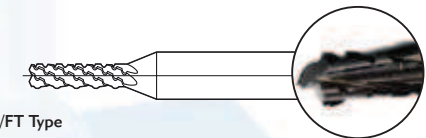
### Contour Routers - RPU Type

For Aluminium routing/milling. Two flutes, upward swarf ejection, fish tail tipped. On-stock diameters: 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0 mm



### Contour Routers - SC/FT Type

For PCB routing, diamant shaped teeth, upward swarf ejection, fish tail tipped. On-stock diameters: 0.6, 0.8, 1.0, 1.3, 1.5, 2.0, 2.5, 3.0 mm



### Special tools for isolation milling < 0,6mm

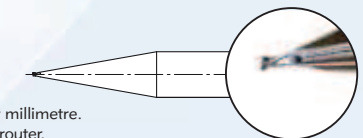
SC/FT Router cylindrical:

0.3, 0.4 und 0.5 mm

Bungard Special isolation milling routers

0.1 and 0.2 mm

These routers are cylindrical only in the last millimetre. This way there is a low risk of breaking the router.



or:

### V-Cut Routers G30°N Type

For isolation routing and fine engraving, two flutes, 30° tip angle. For Channels of 0.1 – 0.3 mm width (depending on cutting depth).

### Contour Routers G60°N Type

For isolation routing with or for engraving, two flutes, 60° tip angle. For Channels of 0.2 – 0.5 mm width (depending on cutting depth).

