

TECHNICAL DATA SHEET

COBOD TANGENTIAL CONTROL

Product name	COBOD Tangential Control
Compatibility	COBOD Concrete Nozzles (50x40 mm and 80x30 mm), HT Extension Nozzle
Rotation	360 Degrees
Programmable	COBOD Slice
Rated Speed (U-motor)	3000 r/min
Rated Torque (U-motor)	1.27 Nm
Peak Torque (U-motor)	4.5 Nm
Shaft Diameter (U-motor)	14 mm

The COBOD Tangential control is a critical mechanical and software feature within COBOD's standard equipment, that enables precise alignment of the print nozzle with toolpath orientation during 3D construction printing process. This dynamic rotation of the nozzle optimizes material application, contributing to improved surface quality and geometric precision. Additionally, COBOD Tangential control is especially beneficial for flap utilization, as they eliminate excess material from wall sides for a smoothed surface finish. By combining mechanical manipulation and software coordination, it guarantees accurate translation of 3D models into printed objects, ensuring that the material is applied in the appropriate direction and at the proper extrusion rate.

Key Features:

- ▶ Employs mechanical and software cooperation to rotate the printhead, guaranteeing accurate material deposition.
- ▶ Delivers efficient material application, minimizing waste and maximizing resource utilization.
- ▶ Ensures uniform material application, contributing to high print quality and structural integrity.
- ▶ Enables flaps to precisely follow toolpaths, allowing complex design possibilities.
- ▶ Empowers high-speed printing while maintaining precision.

