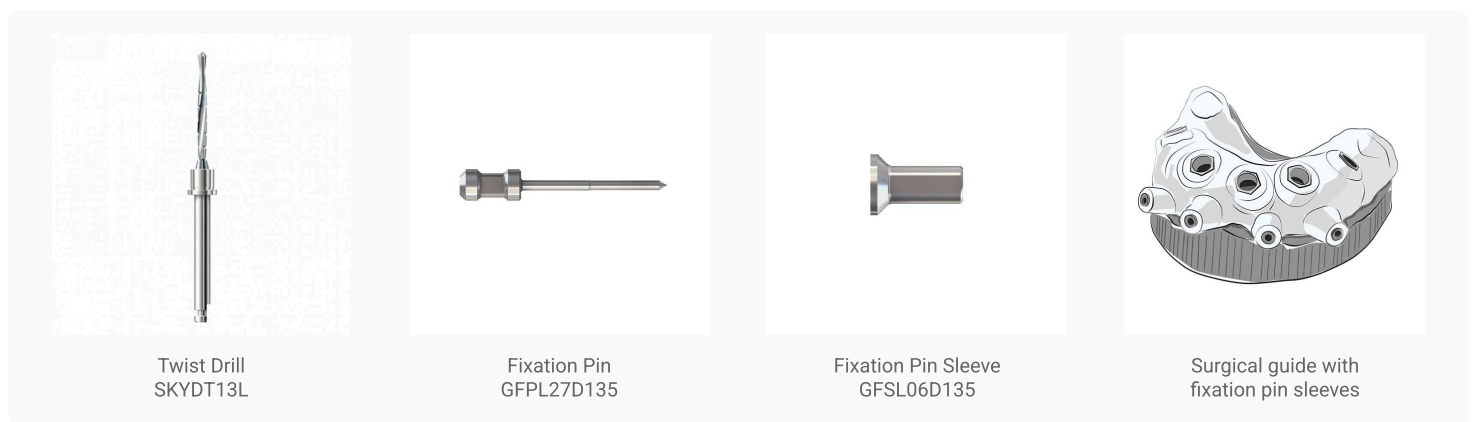


# Using the bredent Twist Drill & Fixation Pin System

## QUICK-REFERENCE GUIDE FOR SURGICAL GUIDE FIXATION

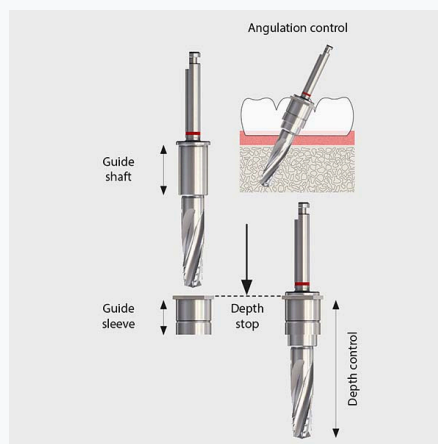
### Components

Component	REF	Specification
SKY guided fixation pin sleeve	GFSL06D135	Ø 1.35 mm, L 6 mm, Ti Grade 5
SKY guided fixation pin	GFPL27D135	Ø 1.35 mm, L 27 mm
bredent Twist Drill (for fixation pins)	SKYDT13L	Ø 1.3 mm



### Drilling Protocol

- Mount the surgical guide** – seat the guide firmly on the patient's anatomy and verify correct positioning.
- Prepare the fixation-pin cavity** – insert the Ø 1.3 mm twist drill through the fixation-pin sleeve. Drill **as far as the depth stop** in the sleeve.
- Insert the fixation pin** – remove the drill and **gently tap** the Ø 1.35 mm fixation pin through the sleeve into the prepared cavity.
- Verify template stability** – confirm the guide has not shifted, then repeat for remaining fixation-pin positions.



Guide shaft, guide sleeve & depth stop – the drill stops at the sleeve to control angulation and depth  
(Image: bredent medical)

### Recommended Drill Settings

Parameter	Value
Speed	<b>800 – 1 000 rpm</b> (max. 1 000 rpm)
Cooling	<b>Copious external irrigation</b> (sterile saline) – mandatory
Torque limiting	Use the implant motor's built-in torque control; do not force the drill

## Precautions

- ⚠ **Always irrigate.** Continuous external cooling with sterile saline is required to prevent thermal bone necrosis.
- ⚠ **Bone density awareness.** In dense (D1) cortical bone, reduce speed toward ~800 rpm and use intermittent "pumping" motions.
- ⚠ **Inspect drill sharpness.** Worn drills generate more heat – replace per the manufacturer's schedule.
- ⚠ **Single use / sterilisation.** Follow the manufacturer's IFU for each component.

**References:** bredent medical – *SKY pro guide Surgical Manual*, bredent-group.com | bredent medical – *SKY Implant System Technical Documentation*, bredent.co.uk

**Note:** This document is a quick-reference summary only. Always consult the current official bredent *Instructions for Use* (IFU) shipped with the instruments. Clinical judgment must be applied to each patient's individual anatomy and bone quality.