

# Extra-Length Extra-Reach Drill Bits

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Drilling & Cutting Tools

Extra-length drill bits (300-400 mm) drill deep holes and reach through thick sections, frames and cavity walls where a standard bit cannot span. Long series and extra-long HSS bits maintain control at depth with pilot and slow speeds.

## Key Features

- Lengths 300, 400 mm and longer
- HSS and carbide tip grades
- Standard diameters 3-13 mm
- Flute lengths for deep holes
- Parallel shanks for chucks

## Typical Uses in the Workshop

- Drill deep holes in thick timber
- Reach behind frames and through walls
- Pass long fixings
- Plumb and cable holes

## Safe Operation

1. Mark and centre-punch accurately
2. Start with a short pilot bit
3. Drill with the bit aligned straight
4. Withdraw regularly to clear swarf
5. Run at reduced speed for depth

### SAFETY NOTES

- Long bits wander and whip - go slowly
- Check what is behind the drilling point
- Secure the work firmly
- Use eye protection and gloves
- Do not force a deep bit that binds

## Maintenance & Consumables

- Clean the flutes of swarf
- Check for bends after heavy use
- Store bits in a long rack or tube
- Sharpen or replace dull tips
- Keep the bit straight when stored

## Specification & Buying Notes

Extra-length HSS bits in the common diameters cover deep hole work. Quality steel stays straight; cheap long bits curve and follow the grain. Buy the lengths actually needed.