



EXTREME **CHALLENGES.** EXTREME **RESULTS.**

TDF Drills for Flat-Bottom Applications (Available as Semi-Standards)

Primary Application

Engineered specifically to eliminate the need for a two-part operation when drilling flat-bottom holes or on an inclined surface:

- Drill flat-bottom holes in one step.
- Eliminate the need to use both an end mill and a drill to machine a flat on an inclined surface.
- After full cylindrical engagement, the drills run at normal solid carbide drilling parameters.

Features and Benefits

- Four-Margin Design
 - Increases contact with material at full diameter.
 - Improves hold quality and drill stability in the cut.
 - Enables interrupted cuts and inclined exits.
- Special Point-Thinning
 - Increases centring capability.
 - Improves chip formation and flow.
 - Reduces cutting forces.

Product Portfolio

- The Flat-Bottom Drill product series TDF51* is pre-designed in four lengths and available in two grades, WN15HD for non-ferrous materials, and WU20PD™ for steel, iron, and stainless steel.

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|-----------|---------|
| – TDF510* | 1,5 x D |
| – TDF511* | 3 x D |
| – TDF512* | 5 x D |
| – TDF513* | 8 x D |
- Length variations and step drills available as engineered solutions.

Ordering Process

- Please contact your local Authorised Distributor for a quote.