

Our 14 Design Features

These 14 design features come standard with every Benchmark Titan Box

If you need trench engineering, we will provide it.
If you have a custom job, we will use our best engineering to deliver you a solution.

1 CONTINUOUS ALL STEEL MEMBERS

The Titan comes standard with continuous-vertical steel end-tubes and internal pounding members. Each member is solid welded for maximum durability, reinforcing the driving zone.

2 INSIDE STACKING SYSTEM

An inside stacking system allows workers to connect two shields together without having to step outside the shield.

3 PROTECTIVE INTERNAL SHELVING

The internal shelving system is a byproduct of a "bend and form" steel sidewall design. Unique to Kundel systems, internal shelving provides workers with a place to store expensive tooling and material (not circled).

4 EXCEEDS OSHA STANDARDS

Titans are guaranteed to keep worker safe. Every design has been PE certified and exceeds OSHA standards (not circled).

5 THROUGH WALL SOCKETS

Through-wall sockets provide a compact and flexible spreader bar connection. Titan sockets are solid cast steel sockets that provide maximum socket durability and flexibility.

6 BALANCED LIFTING LUGS

Lifting is extremely important to Kundel Shields. Titan lifting lugs are designed close together for compact, controllable lifting. Closer lifting lugs allow for a shorter sling that in turn provides less stress on the excavator boom.

7 REINFORCED END TUBES

Titan steel sidewalls are bent and formed to provide a stronger, lighter design. A lighter design allows us to reinforce areas on the shield that take a substantial amount of ditch pressure and excavator abuse. End-tubes are one of the areas we reinforce.

8 REINFORCED POUNDING AREA

Internally reinforcing the pounding area protects the Titan from excavator damage.

9 POUNDING PADS

Pounding pads provide up to 1.5" of protective thick steel plating over the drive zone. Pounding pads also bridge together end-tube to the adjacent internal pounding member, giving maximum strength. The pounding area has been engineered and reinforced to take blunt excavator bucket force.

10 FLEXABLE DESIGN

Titans utilize a non-rigid design that enables each corner to move independently of one another. This feature greatly increases driving maneuverability (not circled).

11 HIGH TAPER BOTTOM

An 18" high taper bottom equals more room in the pipe zone. This extra room allows for a narrower shield and ultimately a narrower ditch. A narrower ditch saves money on expensive bedding material.

12 REINFORCED KNIFE EDGE

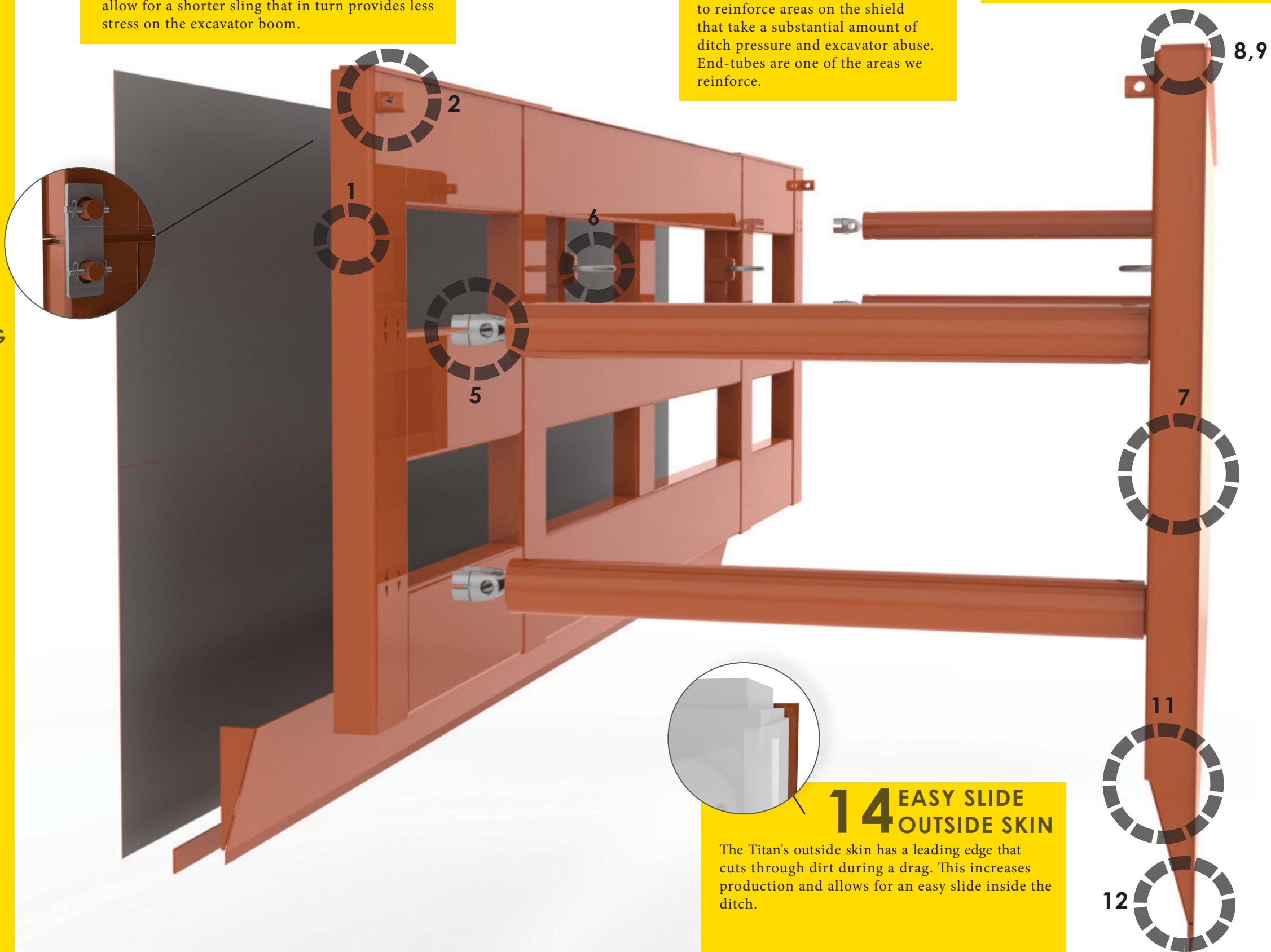
Another reinforced area is the knife-edge. The knife-edge is a solid steel cutting bar that travels the entire length of a sidewall and allows for faster production and a smoother drive.

13 SOLID WELDED

A Titan Shield is entirely solid welded for maximum durability. This feature greatly increases the life of the Titan (not circled).

14 EASY SLIDE OUTSIDE SKIN

The Titan's outside skin has a leading edge that cuts through dirt during a drag. This increases production and allows for an easy slide inside the ditch.



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