



# Business Center - HCE

## DRILL AND PILE MANAGER PACK

### PLANNING TOOLS FOR DRILLING AND PILING

Managing your drilling and piling data has never been easier with Business Center - HCE from Trimble. Specialized construction requires specialized tools; the Drill and Pile Manager Pack is ideal for creating drill plans and reports for the Trimble® DPS900 Machine Control System for Drilling and Piling.

- ▶ Use the same 3D constructible model created in data prep, takeoff and construction, but extend it even further for planning drilling and piling operations
- ▶ Take the plan to the field and execute against the 3D constructible model
- ▶ Perform QA analysis on field operations against your drilling plan

### KEY FEATURES | MODULES

#### Core Product Functionality

Business Center - HCE software core functionality does much more than just import and export.

- ▶ Creation, editing and visualization commands
- ▶ Import AutoCAD DXF/DWG, Microstation DGN, ICM, LandXML, ASCII points, files from many Trimble systems or other third party systems
- ▶ Create and edit alignments, site calibration, surfaces and points, and breaklines to refine surfaces
- ▶ Calculate volumes between surfaces and measure the bearing and distance between objects
- ▶ Cost-efficiently find and fix errors before they are sent to the field by visualizing and editing in 3D
- ▶ Export to many file formats for maximum versatility

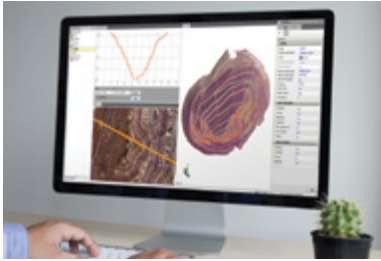
The Core Product is available as a free download, add-on modules extend the functionality of Business Center - HCE.



### Key Benefits

Business Center - HCE contains powerful tools to help you quickly and easily create accurate, integrated 3D constructible models for sites, corridors and marine applications. Make better decisions and increase efficiency in the office and on the job site.

- ▶ Create and manage design data to avoid costly mistakes
- ▶ Rapidly create optimized 3D pile plans, then generate comprehensive quality and production reports to increase profits
- ▶ Reduce rework by ensuring data is clean, up-to-date and delivered in the right format to get the job done
- ▶ Increase profits by optimizing the creation of site and corridor models
- ▶ Reduce drive time by effectively and seamlessly managing data between the office and field
- ▶ Works seamlessly with Trimble DPS900 Machine Control System for Drilling and Piling, Trimble SCS900 Site Controller Software, Trimble GCS900 Grade Control System, Trimble Earthworks Grade Control Platform, Trimble PCS900 Paving Control System, Trimble CCS900 Compaction Control System and Cat® AccuGrade™ Grade Control Systems



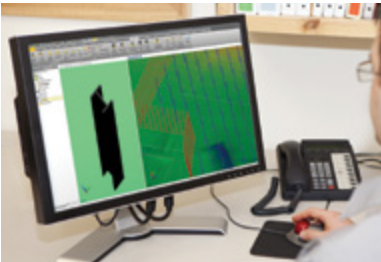
### Surface Tools Module

The Surface Tools Module adds functionality for creating and editing both surfaces and alignments, essential to find and fix errors before they are sent to the field for construction.

- ▶ Add and remove surface boundaries for accurate volume calculations
- ▶ Review as-staked corridor reports
- ▶ Update cut/fill volumes automatically and quickly, even with large data sets
- ▶ Clip lines
- ▶ Densify an alignment-based surface
- ▶ Drape image objects over surfaces
- ▶ Process feature codes

Create and edit:

- ▶ Point cloud regions and points from CAD objects
- ▶ CAD points from scan points
- ▶ Cut/fill maps
- ▶ Linestrings from points
- ▶ Stored cross sections
- ▶ Surface ties, edge breaklines and grids
- ▶ Station offset elevation reports
- ▶ Alignment superelevation



### Drill and Pile Manager Module

Improve accuracy and efficiency by using the same 3D constructible model to rapidly create optimized 3D drilling and piling plans with Business Center - HCE, then generate comprehensive quality and production reports.

- ▶ Create drill, manual drill and dynamic compaction plans
- ▶ Create piles, piles at points and pile plans
- ▶ Add drill holes to drill plans, select drill holes by ID
- ▶ Change pile ID
- ▶ Edit and rebuild drill and pile plans
- ▶ Edit and manage pile types
- ▶ Generate as-drilled and design points
- ▶ Blow count, drill hole quality and piling quality reports

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