Capital HarnessXC

Graphical Harness Design and Engineering
Capital HarnessXC enables makers of high volume, high complexity harness to create fully detailed, validated and manufacturing-ready harness designs. Conceived from the ground up to be highly configurable, Capital HarnessXC offers harness makers new options to tailor the tool to meet their precise needs both in terms of graphical outputs and the way designs are created and validated. In addition, rules-based change management allows change to be effectively managed, streamlining tool flows and minimizing human error.

Automated Engineering and Validation
Capital HarnessXC’s automated engineering capability calculates: manufacturing wire lengths, bundle diameters, optimized splice positions, taping quantities, harness weight and more. Component selection routines add wires, multicores, terminals, seals, cavity plugs, tapes, tubes, heat-shrink sleeves, and similar elements. Multiple design rule checks are then applied ensuring the final design meets the organization’s defined best-practices.

Product Features
- Automated harness engineering and design rule checking
- Fully option and variant enabled
- Comprehensive reports including BOMs, wire lists and custom reporting
- Configurable rules-based design change management
- Multiple drawing formats via configurable graphical styling
- MCAD Bridges to CATIA, NX, and Pro/ENGINEER

www.mentor.com/harness
Design Change Management

Capital Harness XC enables design changes to be integrated into existing harness designs, preserving details added at earlier design stages. Users create multiple “change policies” to control how Capital Harness XC should respond to change. The system automatically assesses the design change impact and how the changes are applied to the new harness design.

Option and Variants (OV) Management

In Capital Harness XC multiple harness variants are managed from a single parent design. The tool automatically identifies which components are assigned to which variant and compiles the manufacturing bills-of-material for each.

Configurable Graphical Styling

Capital Harness XC offers a unique capability to configure multiple graphical representations. Using this, multiple diagram outputs are easily created in support of customer diagram formats, or in response to varying internal needs.

MCAD Integration and Third-Party Data Import

The power of Capital Harness XC is extended with a number of MCAD Bridges: CATIA V4, V5, Siemens NX4, Pro/ENGINEER, I-deas MS10/11. Patent pending harness flattening capability, with auto layout and scaling further streamlines the flow.

Hardware and Software Requirements

For details on hardware and software requirements please contact your local sales office or visit: http://www.mentor.com/supportnet/spt_configs/

Visit our website at www.mentor.com/harness

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