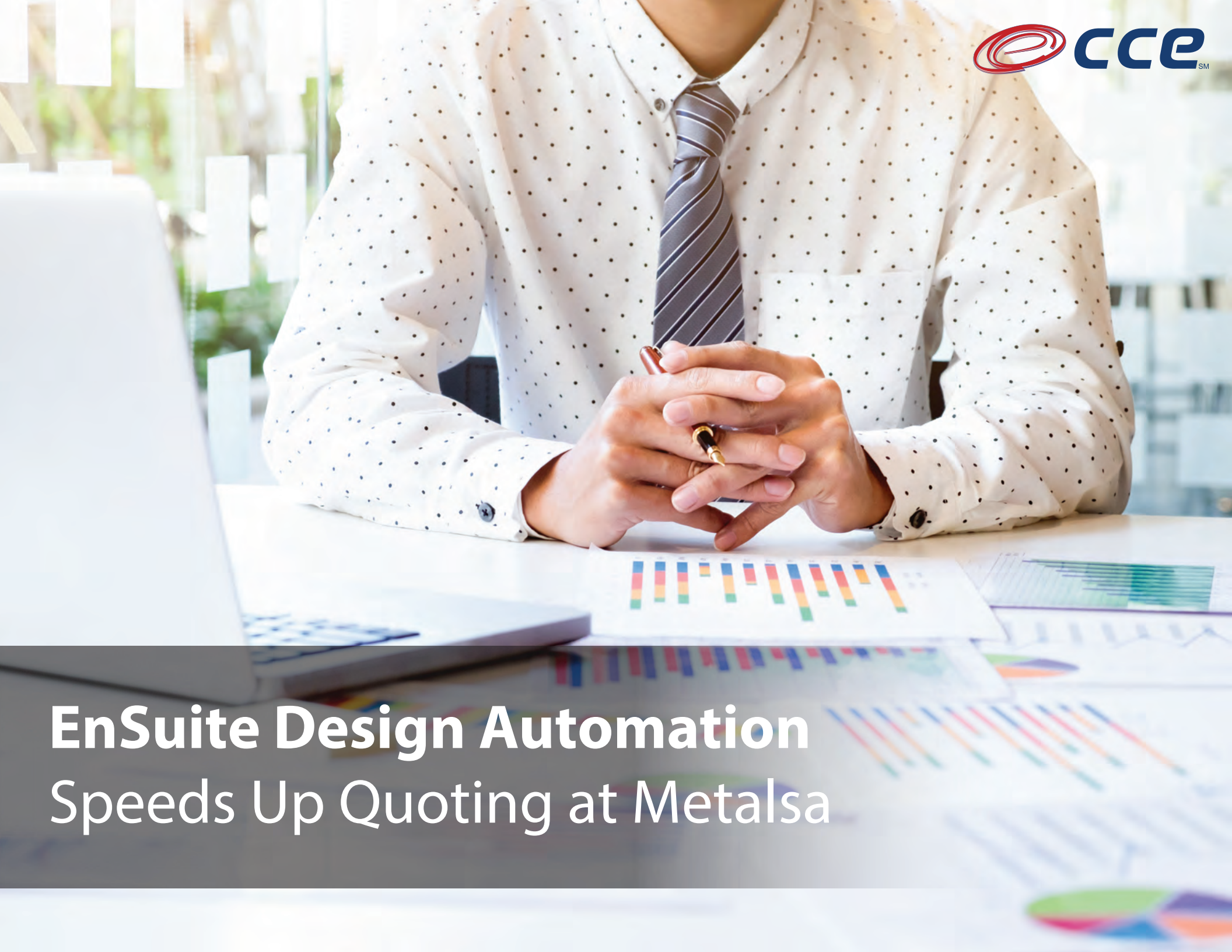


EnSuite Design Automation
Speeds Up Quoting at Metalsa

Customer

Metalsa, a subsidiary of Grupo Proeza, manufactures structural components for the light and commercial vehicle markets.Products include chassis frames, suspension modules, engine cradles, body structures, safety components and steel fuel tanks for passenger cars, trucks and utility vehicles, as well as customized side rails and cross members, and frame assemblies for heavy trucks and buses. The Company has presence in Argentina, Australia, Brazil, China, Germany, India, Japan, Mexico, Thailand, UK (JV), USA and Venezuela. Metalsa distinguishes itself by offering quality, differentiated service and innovation, competitiveness and customization to each customer. Founded in 1956, Metalsa has more than 8,000 employees globally.

Metalsa a global automotive chassis manufacturer reduced its quoting time by over 30% by leveraging the automation features in CCE's EnSuite product. This has allowed the company to win more business besides freeing their engineers to focus on more productive and innovative activities.

Customer Requirement

Metalsa was quoting on average 3 programs per month to automotive OEMs. This process required engineers over 100 hours a month to open CAD files in CATIA, orient the part view to get a snapshot, and extract part information including its weight, thickness and density. All information was then populated into a spreadsheet for process, cost and timing quotations.

> Using EnSuite has enabled Metalsa to cut the total process time by 30% and compressed the quotation process schedule by 2 days.

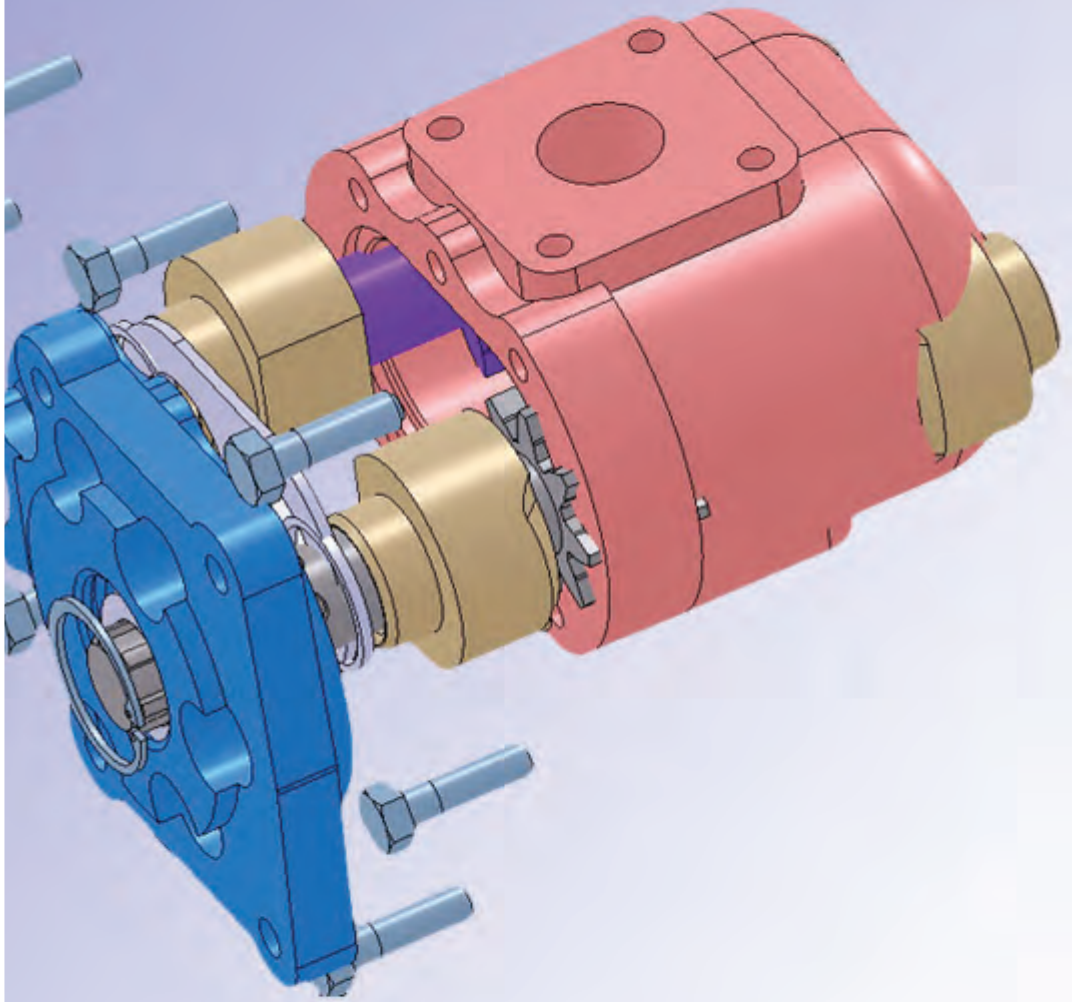
EnSuite

EnSuite a solution for sharing product data across the enterprise includes a design automation framework that enables the creation of scripts to automate routine design tasks. Scripts have been created to automate multiple tasks including opening and displaying only the data in context of use from large assemblies, automatically creating blanks for manufacturing by adding thickness to faces based on color, and extracting dimensions and mass properties from CAD models to automatically populate spreadsheets for quoting.

Besides quoting, Metalsa also uses EnSuite's multiCAD support features to view data from multiple CAD systems, and translate native CATIAdata to IGES & STEPformats.

EnSuite is a CAD independent software package that provides an easy-to-use toolbox for designers and non-designers to view, translate, interrogate and re-purpose multi-CAD data for their functional applications. EnSuite supports all major 3D CAD formats including CATIAV4, CATIAV5, NX, Pro/E, SolidWorks, Parasolid, JT, CGR, STL, Solid Edge, 3D PDF, IGES and STEP.

CALL
+1-248-932-5295

EMAIL
sales@cadcam-e.com

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