puma

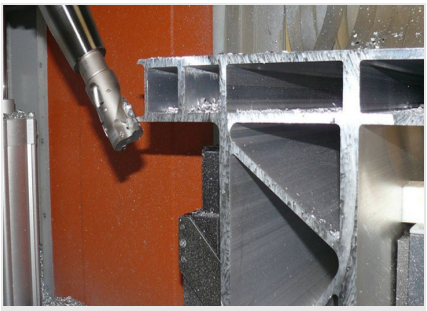
Software

PUMA - technical software for complex demands and extraordinary solutions

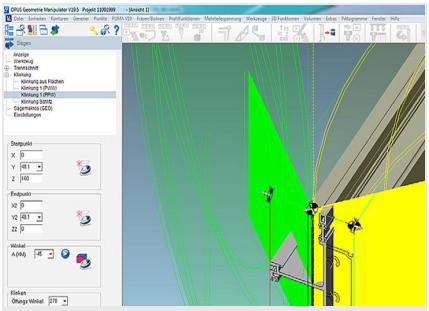
PUMA System® is a solution for programming multi-axis profile machining centers produced by various manufacturers. It is characterized by a significant simplification of programming work and typically achieves shorter pass-through times for customer's parts. Problems referred to clamp management, path and tool optimization, saw handling and machine-oriented simulation of the NC code that is generated, are easy solved by PUMA-System® and this contributes to simplify end user life.

The PUMA System® is a CAM solution for extruded aluminium profiles, which is used most extensively in the areas of aviation, the automotive industry, public transportation and the demanding application of curtain wall construction. It empowers manufacturing engineers to transform their focused and individualized specifications into reality on the machine. The scope of performance goes far beyond the dialog-driven programming system. Functions such as automatic depth tables, clamp management, origin management, bar optimization, bar machining, cycle machining (rapid fabrication of small parts), CSV interfaces and 3D volume interfaces for SAT and STEP, CatiaV4/V5, Inventor or Pro-Engineer, to name a few, all facilitate the effective manufacture of parts from extruded aluminium.
In addition to a wide array of software options, a comprehensive spectrum of services enhances our range. It includes support by experienced application engineers, seminars on the Puma System® profile machining software and the supplementary modules, production consulting on the customer's premises, the development of specialized production software or special solutions, the integration of optional features on the machine, support with problematic jobs, ISO-code training, start-up of programs and monitoring the quality of the milling and routing results. What's more, custom, on-site programming of special parts and the sharing of specific know-how for machining coach bodies of aluminium in the railway sector are also possible.

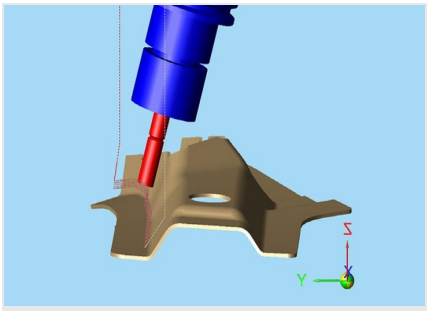
Contact
Elusoft GmbH
Breitwasenring 4
72135 Dettenhausen
Germany
Phone +49 7157 526 65 00
E-Mail: verwaltung@elusoft.com
www.camaeleon.de



Large profile and special tool

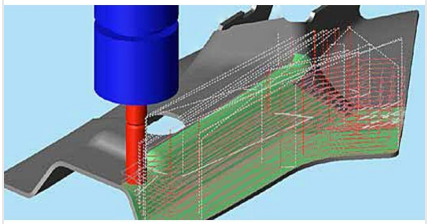


Saw cut surface visualization in Puma system V19.



Roll milling with 5-axis simultaneous from Modulworks option

Measuring during the work process with the wireless probe



Lines with Modulworks

elumatec AG
Pinacher Straße, 61
75417 Mühlacker
Germany

Tel +49 7041-14 0
Fax: +49 7041-14 280
mail@elumatec.com
www.elumatec.com

Requirements for which the PUMA-System® in is ideally suited:
For curved parts with/without clamping devices.
For raw part tolerances that require measuring so that machining is done on edge reference or to the correct depth
For profiles with welded or screwed-on elements where the cross-section is not the same everywhere
Milling operations that require a Z-course or where the A- and C-axes are adjusted in the course
A- and C-axis have to be adjusted (i.e. 4- or 5-axis machining)
Machining operations where, due to lack of space, tools have to be set in position (swivelled-in axis not orthogonal to the machining surface).
Complex facades with numerous finishing operations
Line milling or roll milling along curved surfaces
5-axis simultaneous milling operations such as with Solidworks, MasterCAM, esprit etc.
3D models that are not fully recognised and have to be reworked by taking measurements from the model.
Complex machining operations where the customer wants to specify the sequence in a specific way
When simulation with blank updating is needed to define the work sequence.
Editing and creating 3D models
Deleting surfaces, joining surfaces, creating curves and chamfers, which requires a full 3D core

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