





- Short programming times
- Fully automatic creation of the NC program by means of integrated feature recognition
- Extensive machining functionality
- Intelligent operation strategies to increase unattended machine run times
- Intelligent postprocessors including cycles and subprogram output
- Practice-oriented user interface



Continuous developement on the pulse of time and extensive functionality mark the PEPS Wire EDM module.

Only a few of the reasons why the market leader is recommended by many manufacturers.

WIRE-Expert

Programming highly complex parts within seconds!



information when changing to another wire EDM machine from the integrated cutting schemes database is quick and error-free. Machine, manufacturer, control and technology data independent.



Technology database All products and types.

PEPS offers original technology databases for all common manufacturers. The user can either access the machine databases directly via interfaces, import the machine databases himself or is provided with a database which has already been converted.

AC CUT* AC Orange AC Fanuc AC Vision AC Millennium AC Robofil Mitsubishi Fanuc Sodick Makino ONA MSeibu Seibu Excetek AccuteX Joemars

* 20/30/200/300/400/E/Pxx0/Pxx0 Pro UNIQUA

Highlights Optimisation in all fields of application.





MILL-Expert

Automatic Feature Recognition



Select Expert

Interactive Feature Recognition



2,5D Milling Simple and intuitive

- Multi plane machining
- Multi part machining
- Roughing strategies
- Finishing strategies
- Machine cycles

3D Milling

Efficient and easily operable.

- Roughing
- Finishing

35% time saving due to highspeed calculation

More efficiency

Highspeed Roughing (HPR)

Thanks to a larger Z infeed and definable trim cuts HPR is highly efficient. Avoidance of full cuts and of changes of direction of machining features as well as the intelligent adaptation of the feed increase the efficiency even more.

Highspeed Finishing (HPF)

New, specifically adjusted 5 Axes Milling strategies allow significantly larger infeed with equal surface quality. Furthermore the tool tilted angle is definable by means of dynamic contact point control or tight work angle.



More precision

High-Precision Machining

enables highest production accuracy and best surface qualities because the tool paths are calculated directly on the faces of the model. The rework time through polishing is significantly reduced.



Up to 80% more time saving compared to multipass milling with ball cutters.

Jig and Profile Grinding

- Jig grinding cycles for holes
- Roughing and finishing strategies
- Plunge roughing and longitudinal roughing cycle
- Contour grinding with automatic calculation of the C-axis positions and the feed rate
- Fully automatic calculation of collision-free C-axis positions and 3D Simulation (optional in combination with SolidCut CAD)
- Origin offsetting
- Multiple clamping

Tool Database

The Tool Database contains the complete tool information as well as tool and holder geometries. The latest tool types such as barrel tools, convex tip mills and tapered circle-segment cutters are available.

5 Axes Milling Simultaneous and efficient.

5 Axes Roughing

- Multiaxis roughing
- Multiaxis rest material roughing
- Adaptive high speed <u>multiaxis</u> roughing
- Calculation of collision-free tool paths
- Calculation of the lead on / lead off and connecting paths

5 Axes Finishing

- Swarf machining with/ without tool tilted angle
- Constant Z
- Parallel cuts
- Between two curves
- Moulding channel machining
- Rotational machining
- Geodesic machining
- Corner machining



3D Simulation

High-quality 3D display of your machining in real time including material removal with no quality loss during detail magnification.



TURNING

Multiaxis Turn Milling

Optimum functionality.

The combination of turning and milling modules as well as the fully integrated Machine Kinematics Simulation offers an optimal solution for the programming of lathe-milling machines.

Multi-channel programming and Machine Kinematics Simulation: Main and counter spindle machining, simultaneous roughing with two tools, automatic synchronization and collision check by means of the integrated 3D Machine Kinematics Simulation.

Measuring the actual state

Part measuring in the current simulation status in the Machine Kinematics Simulation.

Variants programming

Automatic creation of the geometry and machining features for families of parts

Fit dimension manufacturing without geometry modification

Calculation of the nominal dimensiondependent tolerance center without modification of the CAD model.

Machine cycle output

Shortening of the NC programs and simplified optimization through the supplementation of machining strategies.

Technology change in sections of the geometry

Modification of feed rate and RPM or the insertion of an arbitrary M-Code and/or G-command.

Time calculation

Output of the machining times to an Excel list per tool, including the main, rapid motion and nonproductive times.



LASER & WATER 2030 300 Sheet Metal Working

Performance strenth and efficiency.

2 Axes Laser, Plasma and Water Jet Cutting: high-impact due to an effective NC program creation, a high automation level and optimal material utilisation. Fully automatic creation of the machining features including job management for machines of various manufacturers.

Complex, but still simple

6 Axes Laser and Water Jet Cutting: the integrated feature recognition not only creates tool paths fully automatically, but also a potential optimisation of the created machining suggestion is possible at any time. Thanks to a very high automation level high working efficiency can be achieved.

Cluster Nesting

Cluster Nesting enables semiautomatic nesting of parts on metal sheets and contains many functions that support the interactive nesting of parts.

High Quality Random Shape Nesting

Optimal material utilisation: Thanks to multiple calculations the best possible result will be determined. Both the sizes of the metal sheets, the distances between the parts as well as the desired angular steps for the rotation of the parts are taken into account.





ADDITIONAL MODULES





CAMMAN

NC Program and Drawing Management system with latest version check of the CAD data.

Measurement cycles

Determination of the exact position of a part before machining.



Gear module

Calculation and optimisation of involute gears via input of various parameters including all inspecting dimensions.

JOBMAN

Fully automatic creation of nesting orders in consideration of material and thickness from various projects.

SolidElectrode

Creation of electrodes as well as for machining simulations with collision check. In conjunction with the corresponding postprocessor, it enables the creation of NC programs for vertical eroding machines.

DNC systems

Safe data transfer between the server and the machine, including recharging.

Interfaces to PPS systems

Interfaces to all ERP/PPS systems, e.g. SAP, 3R Sigma, Zwicker, Schubert etc., are optionally available for CAMMAN and JOBMAN.



Get productive fast Training and introduction courses

Either in one of our training centers or on site, committed and practice-oriented coaches impart the basic and further content of the respective PEPS modules using practiceoriented application examples.



Training Information, dates and registration

All inclusive Support, trial installations and downloads

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Monday – Friday 8 a.m. – 12 p.m. 1 p.m. – 5 p.m.

E-Mail Support@Camtek.de

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Support & Service Contact form, trial installation and downloads