



Tutorial kriging

solution tree" analysis.



Economic Optimization

Evaluate your production from an economic viewpoint (service without additional tests). We determine the best cutting settings to reduce your production costs.



Production Optimization

Evaluate the productivity of your machining process and determine the optimal cutting parameters to increase your productivity.





D.O.E to improve machining

We guide you step by step to launch any type of design of experiment to improve any manufacturing process (grinding, design of cutting tools, etc.).



Statistical Analysis

If you are hesitating between various cutting conditions, we conduct statistical analyses to determine the best one.



Reduction of torque

We find the right machining conditions to reduce torsion in your parts.



Improvement of the roughness

We find the right cutting conditions to reduce roughness of your parts to a minimum.



Tool life

We find the right machining conditions to prolong the life of your tools.



Accuracy and vibrations

We guide you step by step to determine the origin of inaccuracies or signs of vibration in your machined parts.



Reduction of burr.

We find the right machining conditions to reduce burrs on your parts.



Kriging Interpolation

We predict new values and results based on trials you already conducted randomly and without plans.

select the service

More info on the services





Interpolation based on the "kriging" (kriging)

démarrer un projet



Do you have a machining problem? (Or, also an other problem?). Do you have already done tests? Based on some tests you can obtain a model of your tecnic problem. The mathematical model will allow you to adjust your settings to reduce or eliminate your problem.

The -Kriging- does not require you to run specific tests to make a model. It is reputed to be the best sistem for the creation of such models.

If you have an incomplete test plan, you can retrieve values through interpolation by kriging. An example can better explain the usefulness of this service.

You have a machining problem and you have already done some tests, even without a specific order. For many cons you can not understand how factors influencing the outcome.

In that case you open a project-kriging, and you enter the testing and the results you have achieved.

The site will carry out a model for you and you can deduce the results for values ??that you have not physically experienced.

Another example.

You have started a project based on the level of experience. This method requires the testing location. You could not make any test or you have not done exactly in the requested locations.

In that case you open a project-kriging-you enter the testing already done. You ask the interpolator to calculate the values ??that you miss.

With the values calculated by kriging you complete your initial project plans based on experience that provides an assessment and visualization effective influence of each factor on the outcome.

start un projet

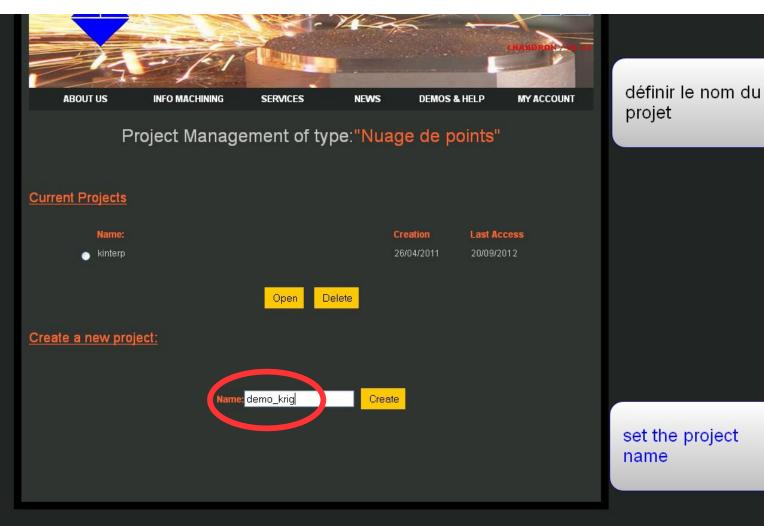


User manual

See an example

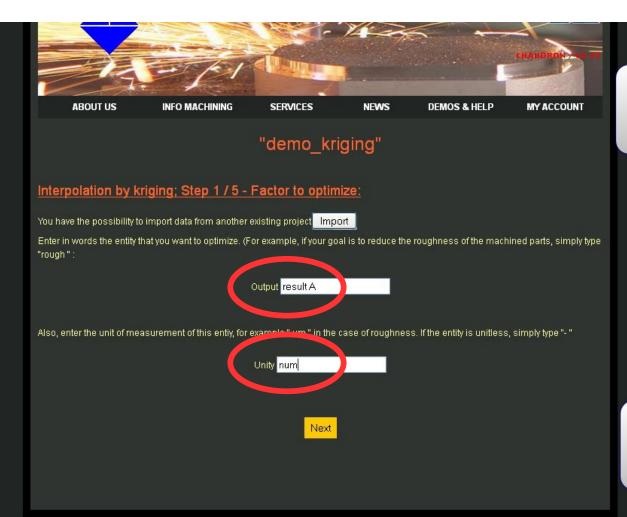
Open / New Project









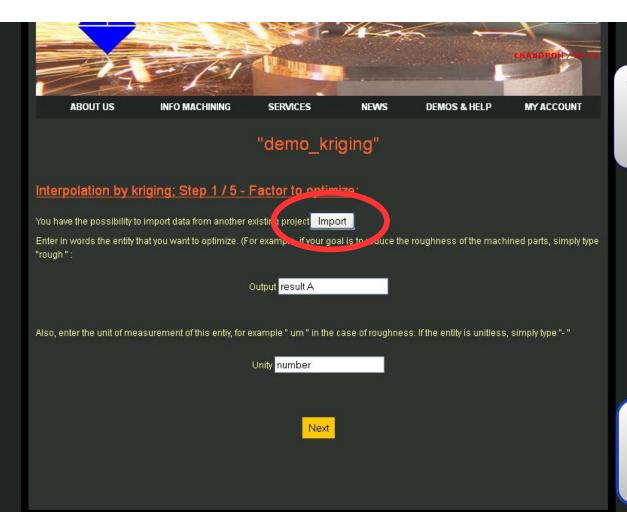


définir la variable et son unité de mesure

define the result and its measure unit





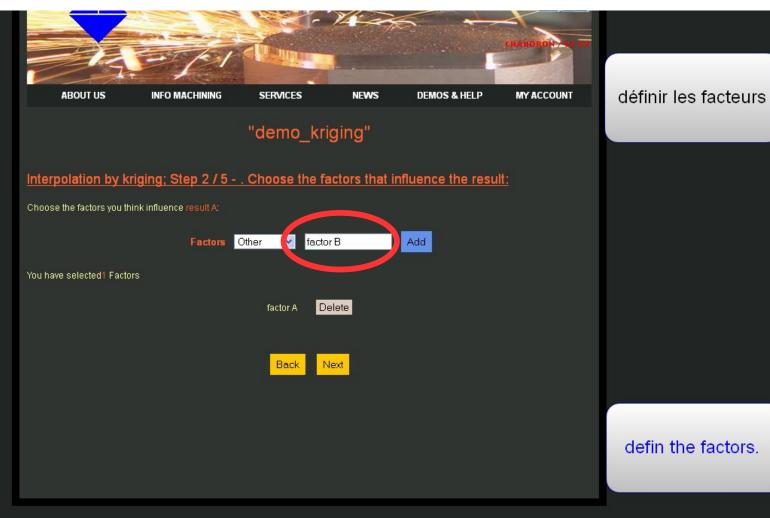


vous pouvez charger les donnés depuis autre projet

you can also load data from another project

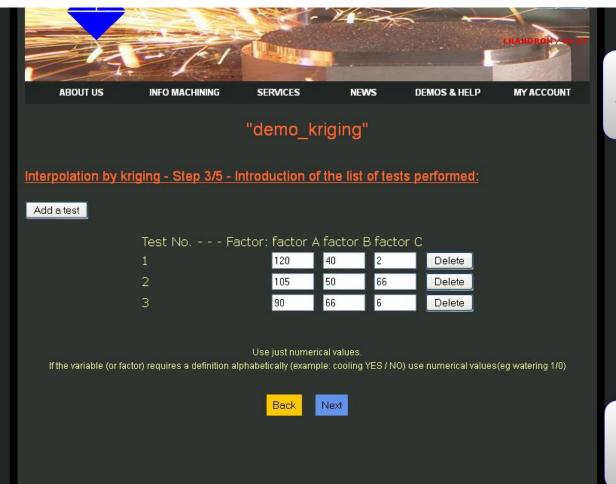






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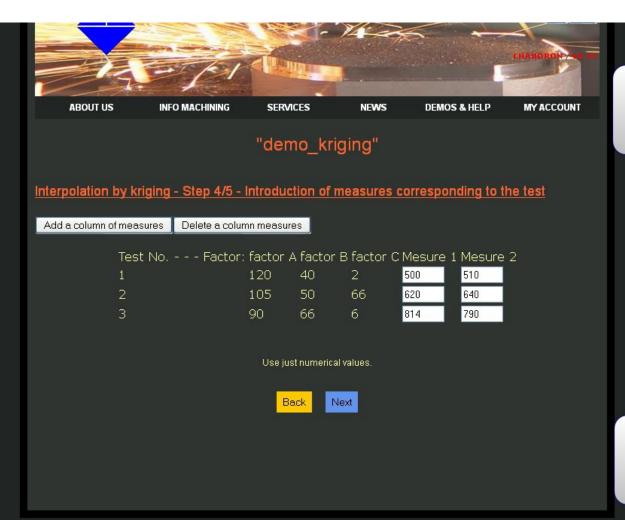


introduire les valeurs des essais

enter the test values



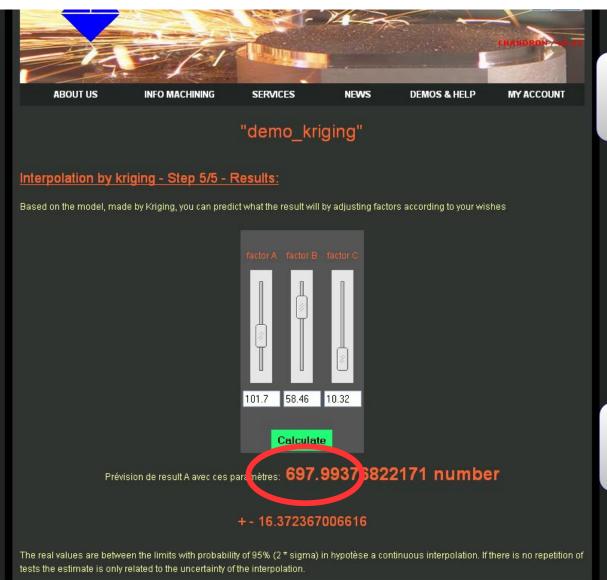




introduire les résultats des essais

enter the results of the tests





le modèle calcul une valeur ...

the model calculates a value

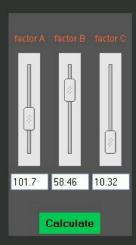




... et son probable écart

Interpolation by kriging - Step 5/5 - Results:

Based on the model, made by Kriging, you can predict what the result will by adjusting factors according to your wishes



... and its probable gap

Prévision de result A avec ces paramètres: 697.99376822171 number

+ - 16.37236700 616

The real values are between the limits with probability of 95% (2 * sigma) in hypotèse a continuous interpolation. If there is no repetition of tests the estimate is only related to the uncertainty of the interpolation.



Bon travail

Good work



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