CaravelCut
Explorer l'usinage

Economic Optimization

Evaluate your production from the economic point of view (service without additional tests). We determine the cutting parameters to reduce your production costs.

Production Optimization

Evaluate your production (service without additional testing). We detemine the cutting parameters for a better productivity

D.O.E for improving machining

We guide you step by step to carry out any design of experiment to improve any manufacturing process (grinding, cutting tool design ... etc.).

Statistical Analysis

If you hesitate between different cutting conditions, we do a statistical analysis to determine the best.

Reduction of torque

We look for the machining conditions aiming to reduce the torsion of your pieces.

Improvement of the roughness

We are look for the cutting conditions aiming to minimize the roughness of your pieces.

Tool life

We look for the machining conditions aiming to prolonging the life of your tools.

Accuracy and vibrations

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

Reduction of burr.

We look for the machining conditions aiming to reduce the burrs of your pieces.

Kriging Interpolation

If you have a list of tests already done, you can enter the results and use our interpolation to predict values and find the conditions offering the better results.

sélectionnez le service

select the service

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ouvrir un projet

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Statistical Evaluation

If you hesitate between different cutting conditions, this service will help you determine what is the best on the basis of statistical computations.

Description

User manual

See an example

Open / New Project

open a project

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Project Management of type:"Statistical Evaluation"

Current Projects

Name:	Creation	Last Access
demo_statistique	27/04/2010	15/10/2012

Open   Delete

Create a new project:

Name: demo_stat   Create

définir le nom du projet

set the project name

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Statistical Evaluation - Project : "demo_stat"

Step 1 / 5 - Measured quantity:

Indicate carefully the value you are measuring. For example, if your goal is compare the roughness of machined parts, simply type -roughness- :

Output: * [output]

Also, enter the unit of measurement of this quantity, for example - microns -in the case of roughness. If the quantity is unitless, simply type: - - - .

Unit: * [   ]

Step 2 / 5 - Conditions to compare:

You must enter a name in each field marked with a star

---

définir la variable et son unité de mesure

define the result and its measure unit

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Statistical Evaluation - Project : "demo_stat"

Step 1 / 5 - Measured quantity:

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Output: * [output]

Also, enter the unit of measurement of this quantity, for example - microns -in the case of roughness. If the quantity is unitless, simply type: - - - .

Unit: * [unit]

Step 2 / 5 - Conditions to compare:

You must enter a name in each field marked with a star

Condition A: * [factor A]
Condition B: * [factor B]

Next

définir les conditions à comparer

define the conditions to compare

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Statistical Evaluation - Project : "demo_stat"

Step 3 / 5 - Enter the measures:

Enter measures output [unit] in the table below. You can add as many measures as necessary. It is not imperative to have the same number of measurements between the two conditions.

factor A	factor B
590	520
610	605
620	510
650	
605	

❌ Delete   ➕ Add

❌ Delete   ➕ Add

Back   Evaluate
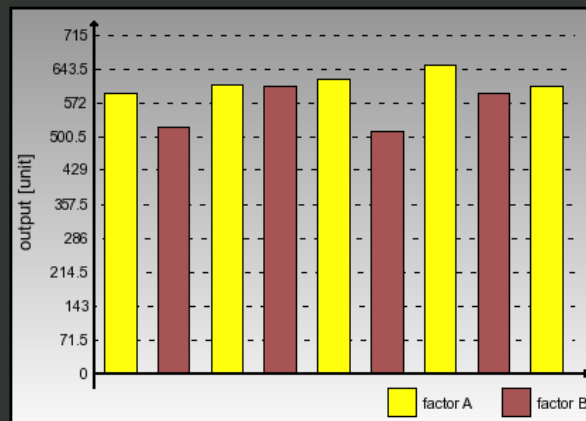
entroduire les résultats.

enter the results.

Statistical Evaluation - Project : "demo_stat"

Step 4 / 5 - Results:

This is the result of statistical analysis:

Average measurements "factor A": 615 unit

Average measurements "factor B": 556.25 unit

The difference between the 2 conditions is significant.
(The probability that the two cases are different is:95.67 %).

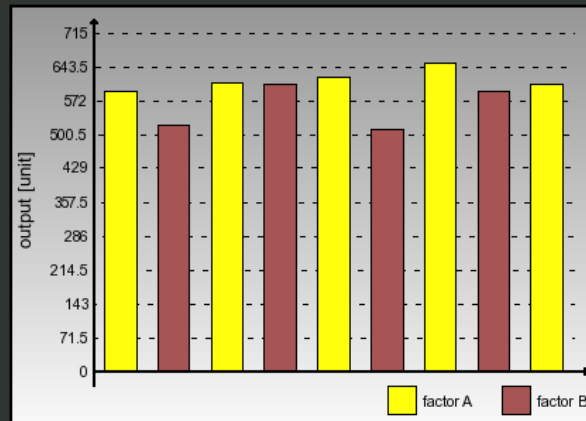Back   Make a Report

vous obtenez l'évaluation statistique

you get the statistical evaluation

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Statistical Evaluation - Project : "demo_stat"

Step 4 / 5 - Results:

This is the result of statistical analysis:

Average measurements "factor A": 615 unit

Average measurements "factor B": 556.25 unit

The difference between the 2 conditions is significant.
(The probability that the two cases are different is:95.67 %).

Back   Make a Report

exemple: les deux cas sont effectivement différents? Oui,

example: are the two cases actually different? Yes, probability of 95.67%

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avez-vous besoin d'un rapport?

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Statistical Evaluation - Project : "demo_stat"

Step 5 / 5 - Fill the different chapters to generate a report:

You can get a report in pdf format for your work:

Chapters	Edit	Status
Introduction	Edit	❌
Equipments used for testing	Edit	❌
Action performed	Edit	⚠️
Result of the statistical validity	Edit	⚠️
Conclusions	Edit	❌
Other information	Edit	❌

Back to the results   **Generate Report**

❌ One or more obligatory fields were not filled.

do you need a report?

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Statistical Evaluation - Project : "demo_stat"

Introduction

Describe the problem. Why did you study it? Indicate the reasons and goals.

report ... |

You can illustrate your problem with an image in *. jpg or *. png less than 1MB (optional).

Path to the image: [_____] Parcourir... Caption: [_____] Add

OK   Cancel

remplir le
questionnaire

fill up the
questionnaire

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Statistical Evaluation - Project : "demo_stat"

Step 5 / 5 - Fill the different chapters to generate a report:

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Chapters	Edit	Status
Introduction	Edit	✅
Equipments used for testing	Edit	❌
Action performed	Edit	⚠️
Result of the statistical validity	Edit	⚠️
Conclusions	Edit	❌
Other information	Edit	❌

Back to the results   **Generate Report**

❌ One or more obligatory fields were not filled.

remplir tous les chapitres obligatoires

edit all the obligatory chapters

vous obtenez votre
rapport imprimable

demo_statistique

you get your
printable report

Rapport demo statistic

Bon travail

Good work