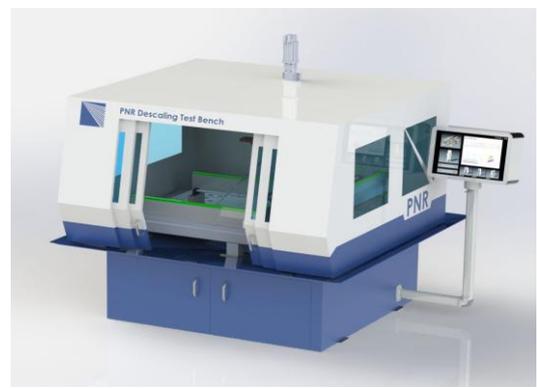




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## THE NEW DESCALING JET TEST BENCH

### HYDRAULIC SPECIFICATIONS :

- Installed pump Inoxihp type                    PF     300
- Max. working pressure        :            bar     300
- Max. working flow rate       :           lpm    210

### GEOMETRIC SPECIFICATIONS :

- Spray height ( z )            :            mm    50 ÷ 500
- Measuring area ( X x Y ) :            mm    900 x 900
- Rack angle range            :            deg.    0 ÷ 40

### MEASURING SPECIFICATIONS

- Impact sensor                                    Front diafragn type
- Impact pressure measuring range            bar 0 ÷ 40 ( 0 ÷ 4 N / mm<sup>2</sup> ) actual : 20 average
- Impact pressure output step                 bar 0,2
- Accuracy                                         < 0,5 % of full scale
- Resolution                                        0,1 →up
- Translation steps                                > 0,1 mm ( x and y axes )

### STANDARD OUTPUT

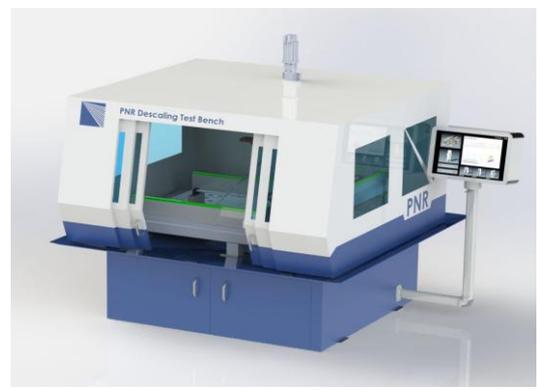
- Max. Impact pressure                         bar
- Average Impact pressure                     bar
- Full area three dimensional impact
- Three dimensional report

### OPTIONAL OUTPUTS

- Maximum and average impact diagram
- Overlapping coverage for nozzles         ( absolute ; percentage )



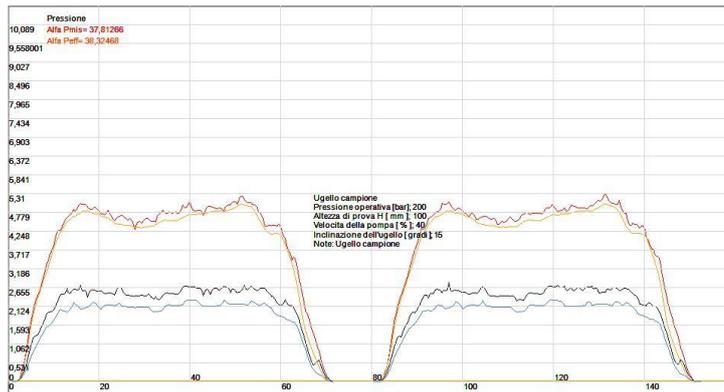
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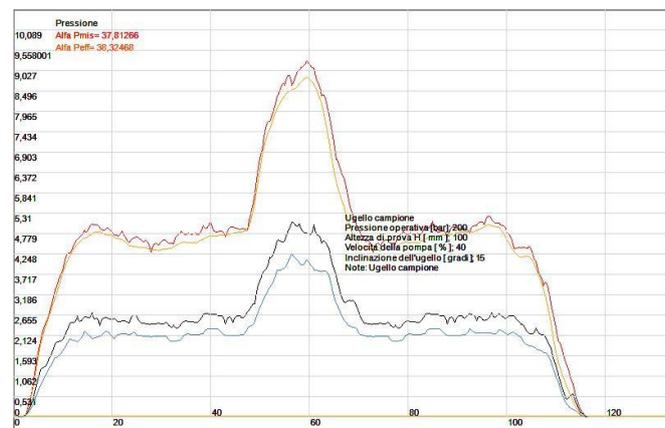
### OPTIMIZE PITCH BETWEEN NOZZLES TO ACHIEVE BEST OVERLAPPING !!!!

By coupling test data at different pitches, you may get the optimal overlapping

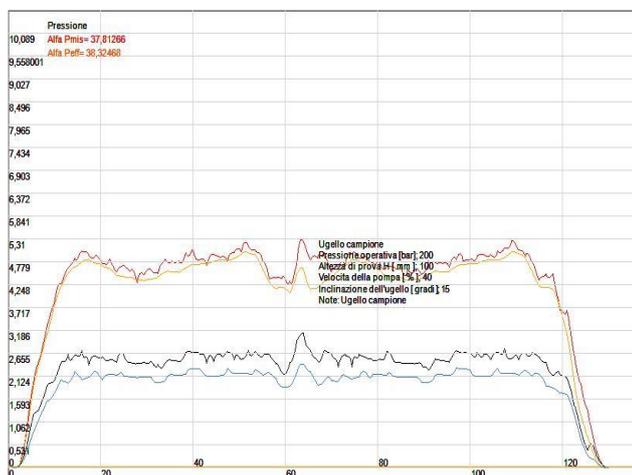
I = pitch mm 80 : lack of overlapping



I = pitch mm 45 : excessive overlapping

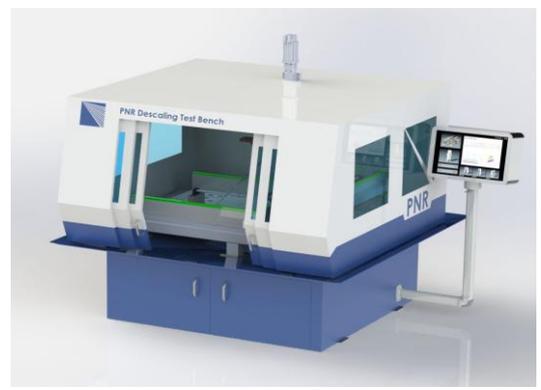


I = pitch mm 58 : right overlapping



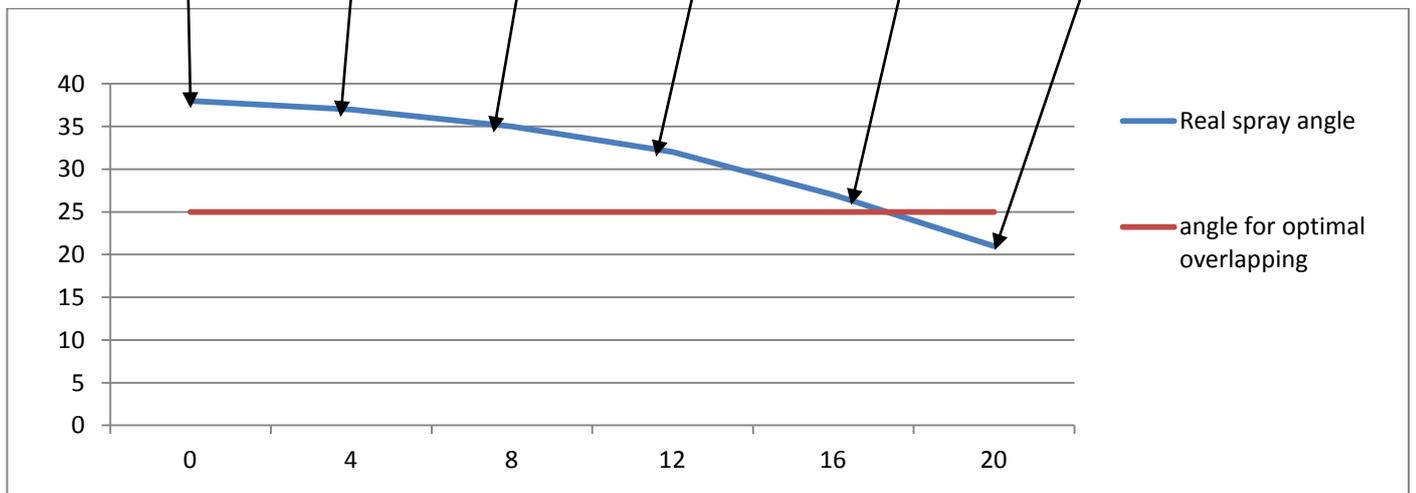
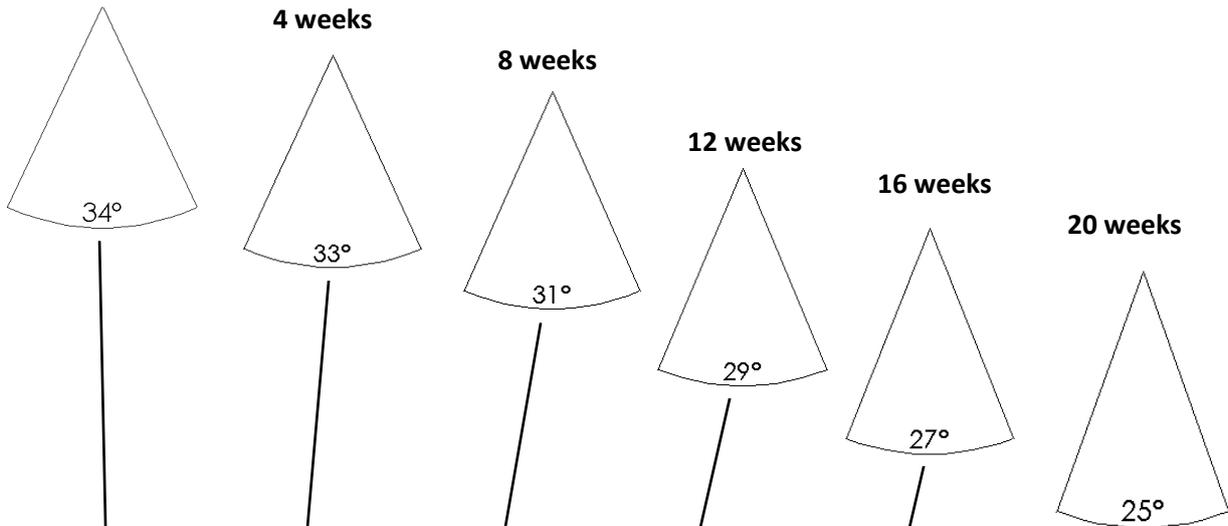


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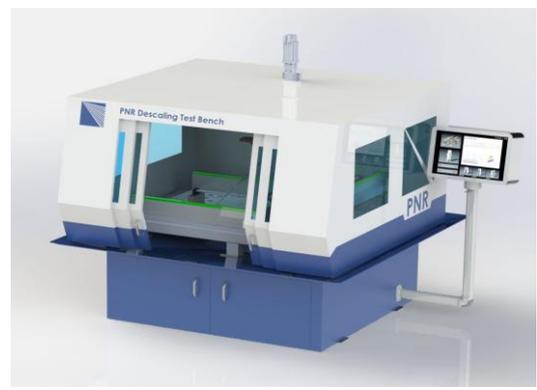
**Define optimal time to replace wear nozzles by our “Wear and tear “ service !!  
The measurement of spray angles at different life times of a descaling nozzle :**

**NEW NOZZLE**



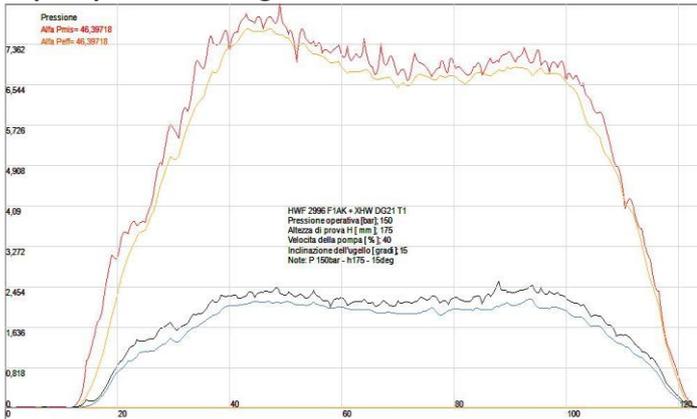


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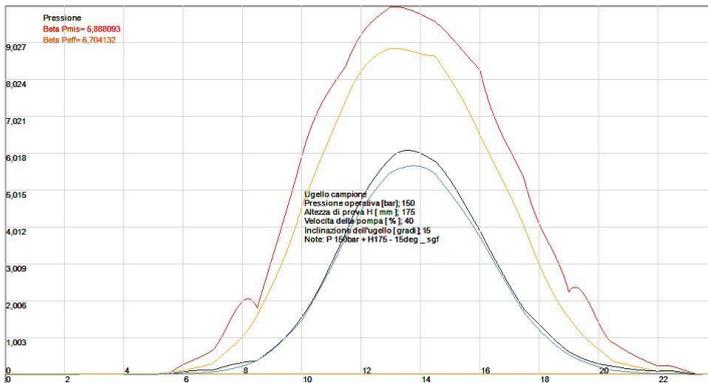
## STANDARD OUTPUT

### Impact pressure along X axis



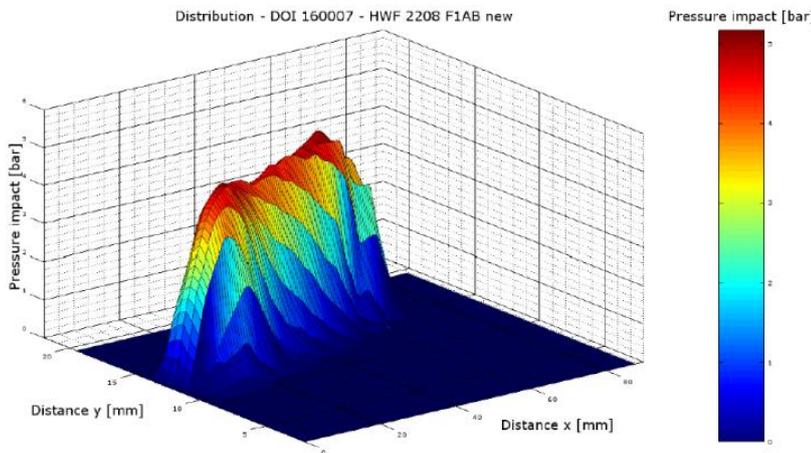
### IMPACT PRESSURES CHART LEGENDA:

- = Maximum pressure value found on the vertical axis intercept.
- = The rms value is calculated considering the average value of the impact pressure values of the 8 neighbouring points to the specific measuring point, in order to disregard the possible effect of local fluid veins. The orange curve represents the maximum rms value so calculated.
- = Average pressure value found at the intercept of the vertical axis; therefore, on the axis X (corresponding to the primary spray angle), there will be indicated the average of the values measured along the axis Y (corresponding to the secondary spray angle) in correspondence to that X value.
- = Average rms value calculated of the pressure measured at the intercept of the vertical axis calculated as above



### Impact pressure along Y axis

### Three dimensional report



### Top view of covered area

