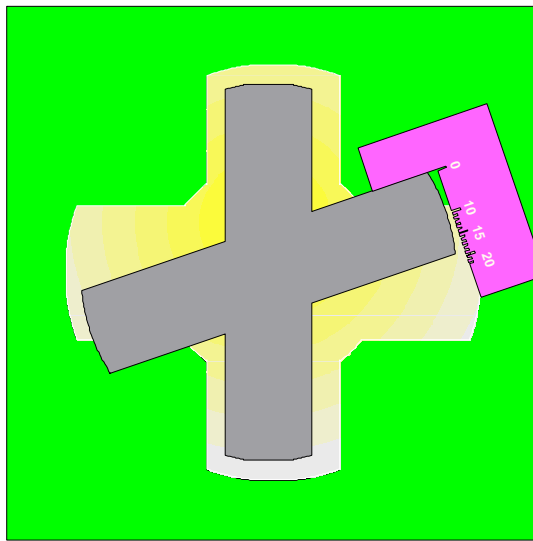


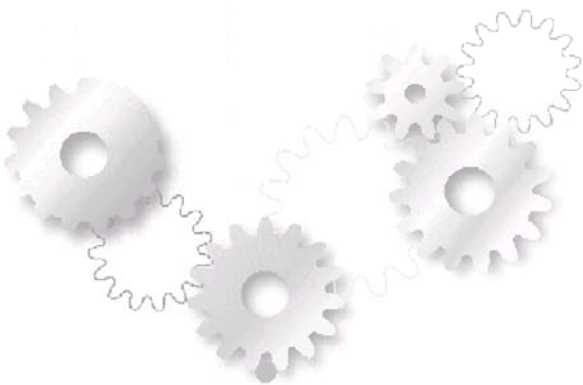


# Effitv

Game to learn



*Splines in the  
tolerance chart*

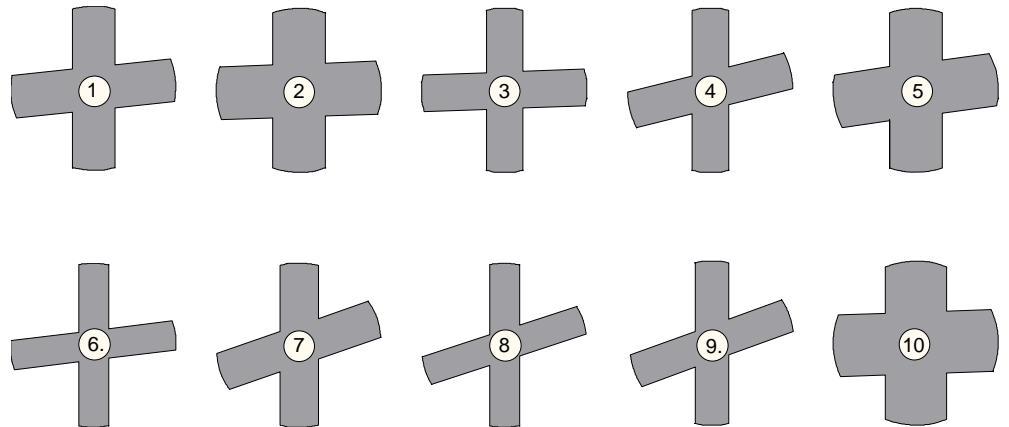


pure  
perfection

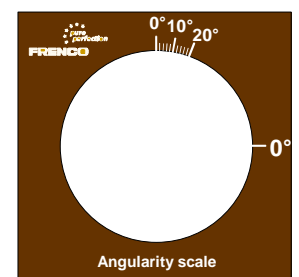
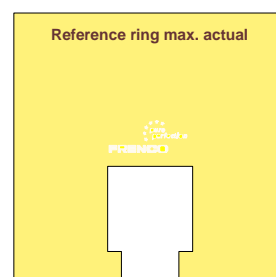
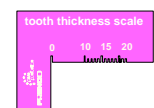
**FRENCO**

# System

## 10 Specimens having different variations



## 6 Inspection tools for quality inspection



The tolerancing system of splines is based on actual and effective tolerances. This system is only necessary for splines.

The true position of produced parts in the tolerance chart is difficult to understand.

The Effity game to learn teaches the knowledge by playing the game. This is much more efficient than learning by reading.

10 Specimens und 6 inspection tools can be seen and touched.

Learning by playing is escorted by a colored manual leading through 7 phases.

# How it works

The game is structured with 7 phases.

It starts quite simple. The knowledge will be toughed step by step in simply to understand phases.

At the end, the knowledge will be complete a way, reading never is able to transfer.

**Phase 1: Size inspection with gauges**

**Phase 2: Size inspection with gauges and effective inspection with the go ring**

**Phase 3: Size inspection with tooth thickness scale and effective inspection with the go ring**

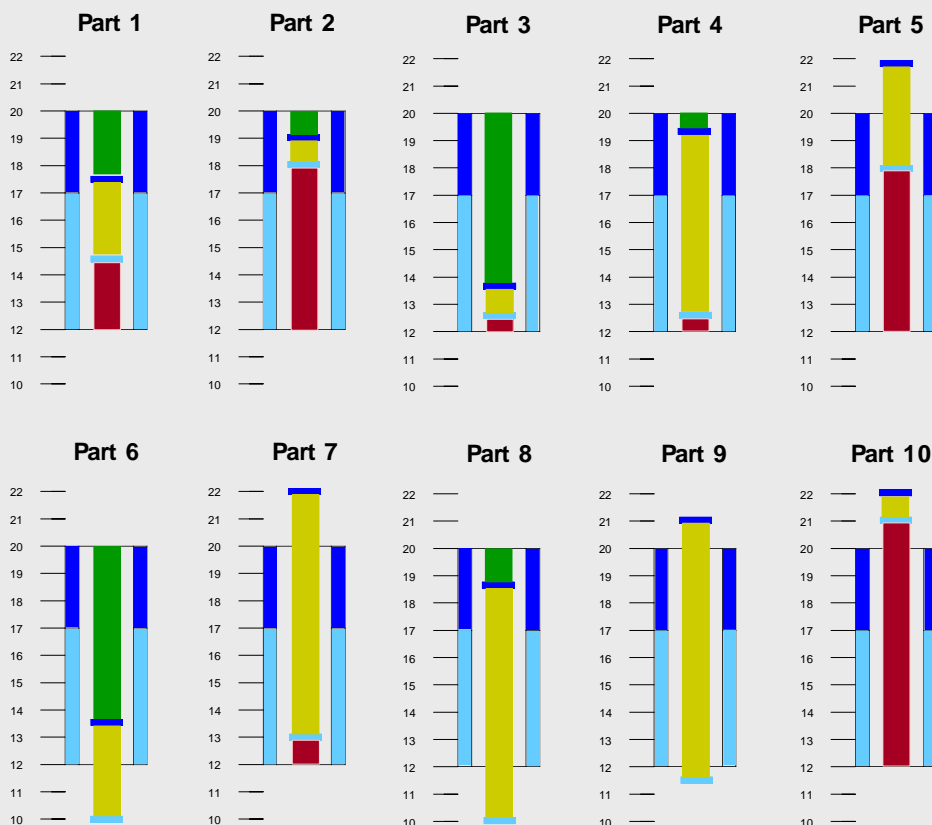
**Phase 4: Measurement of form variations by the example of index in association with the actual size**

**Phase 5: Evaluation of results with expert system**

**Phase 6: The method Alternate A according to ANSI B 92.1 and ISO 4156**

**Phase 7: The method Alternate B according to ANSI B 92.1 and ISO 4156**

## Result sheet 5



# FRENCO Product Lines



## Gear and spline high precision

Spline Gages  
Master Gears, master wheels  
Artefacts, masters  
Profiled tools  
Clamping systems  
Gear and spline manufacturing



## Instruments for size inspection Series V

Ball inserts and pins VRK  
Instruments for rocking VA  
Instruments with face stop VP  
Indicating Gages VM  
Variable 3-Disc Gages VD  
Customized solutions VS



## Rotation Measuring Systems

URM - K with balls and pins  
URM - R with master wheels  
EWP Single flank gear rolling  
ZWP Double flank gear rolling  
WS Gear Rollscan



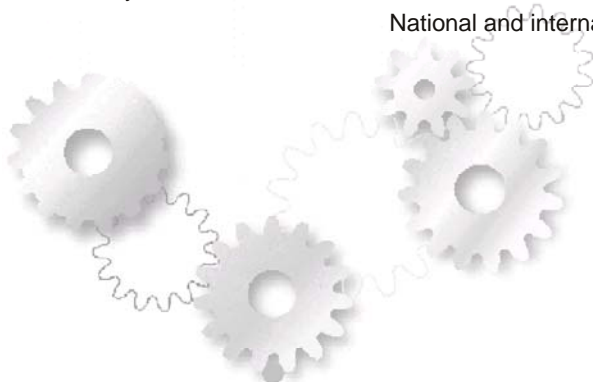
## Gear and spline inspection

DKD gear calibration  
Gage wear inspection  
Part inspections  
Deviation analysis



## Know-how transfer

Software for gear and spline calculating  
Training, seminars and workshops  
Consulting and calculations  
Literature and documents  
National and international standards



**FRENCO**

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