

Special Training

Script and COM Interface

2 Live Stream Sessions

The screenshot displays the KISSsoft software interface. On the left, there is a 'Modules' tree with categories like 'System modules', 'Base modules', 'Gears', and 'Other gears'. The main area is a script editor containing a VBA-style script for gear analysis. The script includes comments and code for calculating gear parameters and generating a report. A 'Graphic' window is open, showing a scatter plot of 'PPTE [µm]' versus '2*Amplitude [µm]'. The plot features a red line for the 'Mean value' and a blue shaded area for the '97.5 % Percentile'. The 'Script output' window at the bottom shows a list of results for various gear types and parameters, including values for PPTE, standard deviation, and manufacturing notes.

General information

- Use of Meta-variables
- Calculation file comparison in an editor
- Explanation of report templates and label structure

COM interface

- Server registration and access from VBA Excel
- Difference between the general and version-specific COM interface, maintenance
- Basic and Expert COM interface
- Possibilities and limitations
- Various function calls in VBA Excel with examples

Script

- Handling of Script editor and files
- Explanation of Script events
- Script programming (variable declaration, statements, operations, function calls) with examples
- Difference between local and Meta-variables
- User interface with Script

```
Dim ksoft As CKISSsoft
Set ksoft = New CKISSsoft

Call ksoft.GetModule("Z012", True)

Call ksoft.LoadFile("../01 Spur (ISO 6336).Z12")

Call ksoft.SetVar("ZR[0].b", "50")
Call ksoft.SetVar("ZR[1].b", "50")

Call ksoft.Calculate

SF1 = ksoft.GetVar("ZPP[0].Fuss.SFnorm")
SF2 = ksoft.GetVar("ZPP[1].Fuss.SFnorm")
SH1 = ksoft.GetVar("ZPP[0].Flanke.SH")
SH2 = ksoft.GetVar("ZPP[1].Flanke.SH")

Call ksoft.ReleaseModule

End Sub
```

	Gear 1	Gear 2	
Number of teeth	z 25	76	
Facewidth	b 50	50 mm	+
Profile shift coefficient	x 0.2485	-0.2485	← ↔ ↗
Quality (ISO 1328:2013)	A 6	6	↗

Gear 1	Case hardening steel	18CrNiMo7-6, case-hardened, ISO 6336-5 Figure 9/10 (MQ), Core hardness >=25HRC Jominy J=12mm<HRC28	+
Gear 2	Case hardening steel	18CrNiMo7-6, case-hardened, ISO 6336-5 Figure 9/10 (MQ), Core hardness >=25HRC Jominy J=12mm<HRC28	+
Lubrication	Oil bath lubrication	Klüberoil GEM 1-220 N with details about wear coefficient kw	↔ +