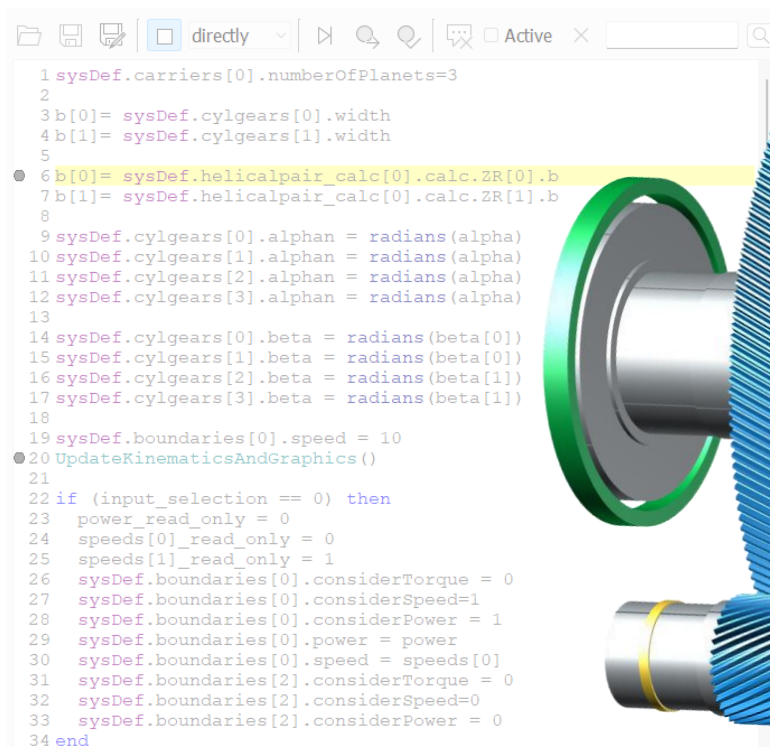


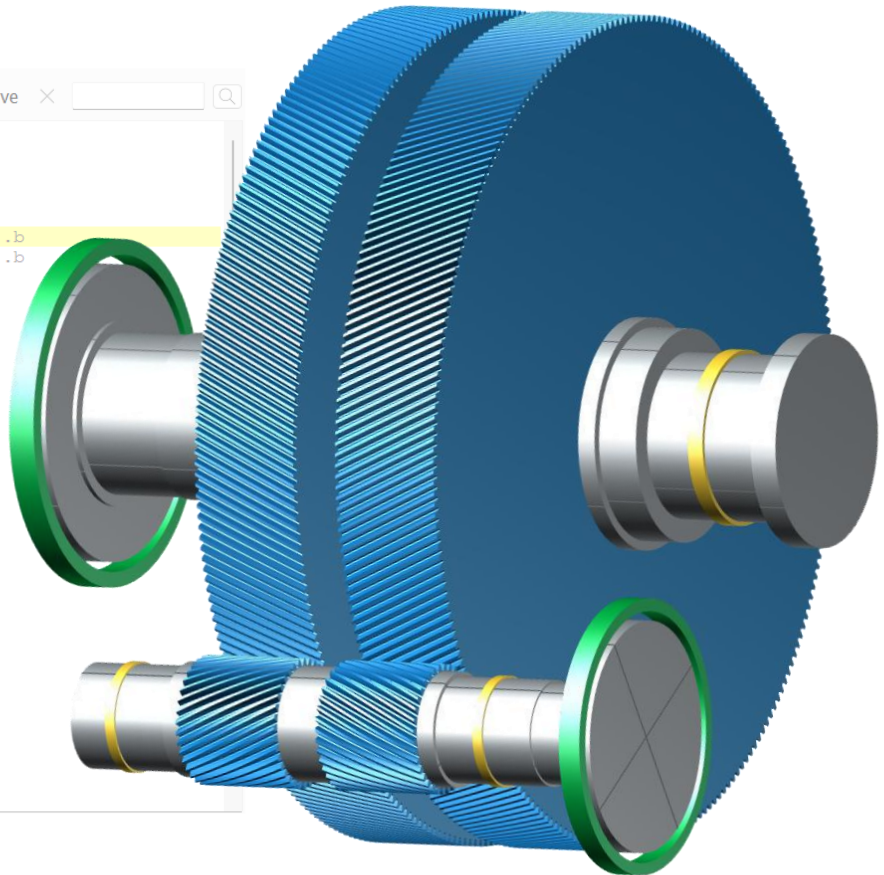
Special Training

KISSsoft System Module: System Skripts

1 Online-Session



```
1 sysDef.carriers[0].numberOfPlanets=3
2
3 b[0]= sysDef.cylgears[0].width
4 b[1]= sysDef.cylgears[1].width
5
6 b[0]= sysDef.helicalpair_calc[0].calc.ZR[0].b
7 b[1]= sysDef.helicalpair_calc[0].calc.ZR[1].b
8
9 sysDef.cylgears[0].alphan = radians(alpha)
10 sysDef.cylgears[1].alphan = radians(alpha)
11 sysDef.cylgears[2].alphan = radians(alpha)
12 sysDef.cylgears[3].alphan = radians(alpha)
13
14 sysDef.cylgears[0].beta = radians(beta[0])
15 sysDef.cylgears[1].beta = radians(beta[0])
16 sysDef.cylgears[2].beta = radians(beta[1])
17 sysDef.cylgears[3].beta = radians(beta[1])
18
19 sysDef.boundaries[0].speed = 10
20 UpdateKinematicsAndGraphics()
21
22 if (input_selection == 0) then
23   power_read_only = 0
24   speeds[0]_read_only = 0
25   speeds[1]_read_only = 1
26   sysDef.boundaries[0].considerTorque = 0
27   sysDef.boundaries[0].considerSpeed=1
28   sysDef.boundaries[0].considerPower = 1
29   sysDef.boundaries[0].power = power
30   sysDef.boundaries[0].speed = speeds[0]
31   sysDef.boundaries[2].considerTorque = 0
32   sysDef.boundaries[2].considerSpeed=0
33   sysDef.boundaries[2].considerPower = 0
34 end
```



KISSsoft System Module – System Skripts

- Einführung ins Skripting
- Erklären verschiedener Ereignisse
- Verwendung vorhandener Variablen
- Übersicht verfügbarer Funktionen

Hilfreiche Skriptbeispiele

- Steuerung von Einstellungen und Eingaben im Modell
- Datenimport aus externen Dateien
- Datenexport im benutzerdefinierten Format
- Erstellen eines neuen Benutzertabs mit Eingabe- und Ausgabefeldern
- Aufrufen von callFunc Funktionen für bestimmte Berechnungsmodule im Modell mit Skript
- Erweitern der vorhandenen Datentabellen
- Ausführen im Batch-Modus

MyTab

Boundary

Select operating mode: Mode 1

Torque	T1,T2	100.0000	-1244.5714	Nm
Speed	n1,n2	15000.0000	1205.2342	1/min
Power	P1,P2	157.0796	-157.0796	kW

Outputs

z1	SF,SH	2.1770	1.1111
z2	SF,SH	1.9979	1.1549
z3	SF,SH	2.1397	1.1764
z4	SF,SH	1.9776	1.2229

```
1 /// WARNING: This is a generated comment to declare for
2 which module and version this was generated.
3 SCRIPTMODULE=S020; SCRIPTNAME=; SCRIPTVERSION=24.0;
4 SCRIPTDESCRIPTION=;
5
6 setAllCalculationsInconsistent()
7
8 if (input_selection == 0) then
9   operatingModes.currentOperatingMode=0
10  BMatrix.currentBCPosition=0
11  sysDef.boundaries[0].considerTorque=true
12  sysDef.boundaries[0].considerSpeed=true
13  sysDef.boundaries[1].considerTorque=false
14  sysDef.boundaries[1].considerSpeed=false
15  power_read_only = 1
16  speed[1]_read_only = 1
17  torque[1]_read_only = 1
18  sysDef.boundaries[0].torque = torque[0]
19  sysDef.boundaries[0].speed = speed[0]
20  Calculate()
21  power[0]=sysDef.boundaries[0].power
22  torque[1]=sysDef.boundaries[1].torque
23  speed[1]=sysDef.boundaries[1].speed
24  power[1]=sysDef.boundaries[1].power
25 end
```

Sketcher		3D Viewer		Boundary		System data		Strength		Script Editor	
Gear				 z1	 z2	 z3	 z4				
Calculation				 z1z2	 z1z2	 z3z4	 z3z4				
Shaft				 s1	 s2	 s2	 sc				
Drawing number				z1(z1z2)	z2(z1z2)	z3(z3z4)	z4(z3z4)				
Number of teeth		z		25.0000	88.0000	28.0000	99.0000				
Normal module		m _n	mm	1.7000	1.7000	2.2000	2.2000				
Speed		n	1/min	150000.0000	42613.6364	42613.6364	12052.3416				
Torque		T	Nm	100.0000	352.0000	352.0000	1244.5714				
Power		P	kW	1570.7963	1570.7963	1570.7963	1570.7963				
Number of gears		p		1	1	1	1				
Lubrication type				Oil bath lubrication	Oil bath lubrication	Oil bath lubrication	Oil bath lubrication				
Lubricant				ISO-VG 46	ISO-VG 46	ISO-VG 46	ISO-VG 46				
Lubricant temperature		T _s	°C	65.0000	65.0000	65.0000	65.0000				
Root safety		S _r		2.0045	1.7938	1.8654	1.7156				
Flank safety		S _H		1.0917	1.0917	1.1143	1.1496				