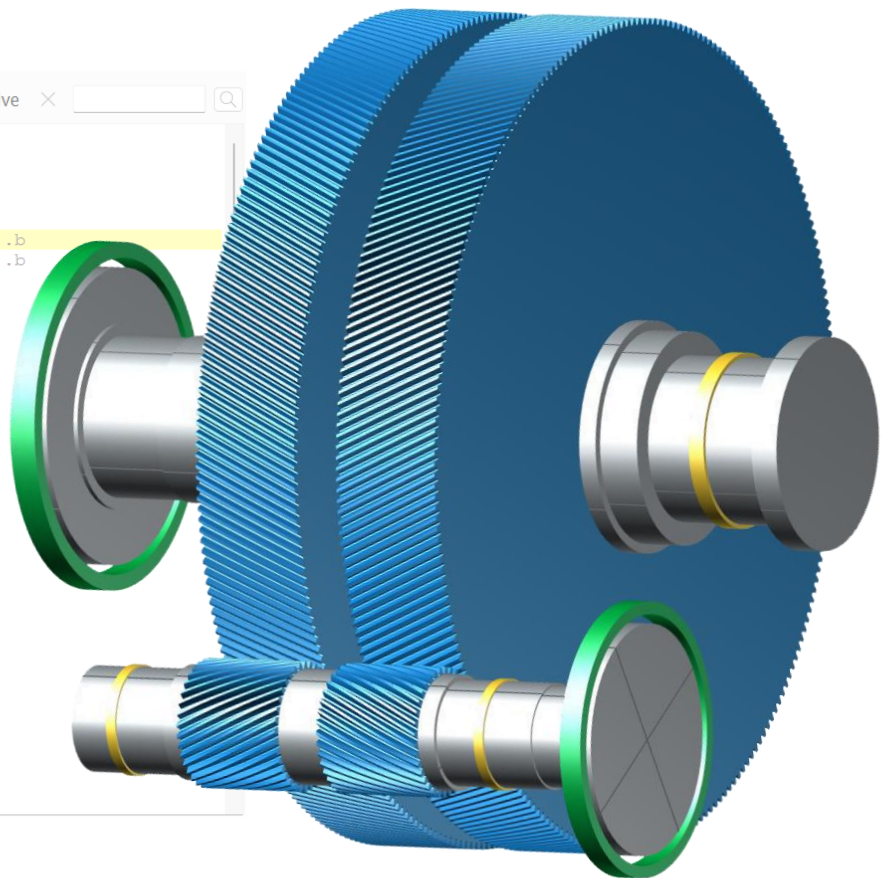


Special Training

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 SKRIPTMODULE=S020; SKRIPTNAME=; SKRIPTVERSION=24.0;
4 SKRIPTDESCRIPTION=;
5 setAllCalculationsInconsistent()
6
7 if (input_selection == 0) then
8   operatingModes.currentOperatingMode=0
9   BMatrix.currentBCPosition=0
10  sysDef.boundaries[0].considerTorque=true
11  sysDef.boundaries[0].considerSpeed=true
12  sysDef.boundaries[1].considerTorque=false
13  sysDef.boundaries[1].considerSpeed=false
14  power_read_only = 1
15  speed[1]_read_only = 1
16  torque[1]_read_only = 1
17  sysDef.boundaries[0].torque = torque[0]
18  sysDef.boundaries[0].speed = speed[0]
19  Calculate()
20  power[0]=sysDef.boundaries[0].power
21  torque[1]=sysDef.boundaries[1].torque
22  speed[1]=sysDef.boundaries[1].speed
23  power[1]=sysDef.boundaries[1].power
24 end
  
```

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 _f	1.0917	1.0917	1.1143	1.1496