# Web demo Pre- and final machining of gears in KISSsoft

KISSsoft software module list

## Basic package for Cylindrical gears

<table>
<thead>
<tr>
<th>Modules</th>
<th>Description</th>
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</table>
| ZPK     | Cylindrical gear package  
Geometry, control measures (DIN 3960, DIN 3962, DIN 3963, DIN 58400)  
Tolerances as specified in updated ISO 1328-1:2013  
Reference profiles according to JIS 1701-1  
Calculation and presentation 2D and 3D of the tooth form for external and internal toothing with tooth flank modification  
Graphical display of specific sliding  
One strength calculation for a cylindrical gear, either as specified in DIN 3990, ISO 6336, AGMA 2001, VDI 2545, VDI 2736 or GOST 21354-87  
Input of speed for epicyclic gears configuration **NEW!**  
Tooth friction / power loss acc. to Niemann  
Extended range for possible profile shift  
Deep tooth form/short cut tooth form, tools  
Grinding the tooth root  
Flash temperature course  
Scuffing according to DIN 3990 and ISO TS 6336-20/21  
Micropitting according to ISO TR 15144-1:2014 (Method B)  
Arc of circle and spline approximation for 2D export (requires CA1)  
Extended 2D and 3D tooth form display  
Animation of gears when meshing, simultaneous display of more than one manufacturing step, measuring function in the graphics, function for saving data for A – B comparison  
Manual input of active tip and root diameters in the single gear calculation **NEW!**  
Tooth form and tool in normal section  
Collision check, marking of contact point, marking of collision  
Manufacturing drawings  
Rights: Z01, Z02 (Z02a, Z13, Z14, Z14a, Z2e), Z05, Z5x, Z5i, Z5j, Z5k, Z19e, Z19m |

## Expert Modules Gears

<table>
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<tr>
<th>Modules</th>
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| ZA5     | Geometry sizing functions and special calculations  
Sizing of profile shift related to various criteria  
Calculation of profile shift based on measured tooth geometry  
Calculation of tooth thickness allowances based on measured tooth geometry  
Pre-machining tools with grinding allowance, Topping tools  
Sizing for tooth height regarding transverse contact ratio  
Sizing of linear profile modification  
Crowning and helix angle modification sized whilst taking into account axis inclinations as specified in ISO 6336-1, Appendix E (requires ZA35) |
Report for tolerances in accordance with ISO 1328, DIN 3961, DIN 58405, BS 436,
AGMA 2001, AGMA 2015
Calculation with manufacturing profile shift
Sizing of center distance regarding balanced specific sliding
Sizing of helix angle regarding various criteria
Profile and tooth trace diagram (K diagrams)
Rights: Z01x, Z15, Z19a, Z19d, Z19f, Z19h, Z19l, Z19n

Do you wish to test these calculation modules? Or do you need a complete list of all available modules? Please contact our sales department: +41 55 254 20 53 or info@kisssoft.ag