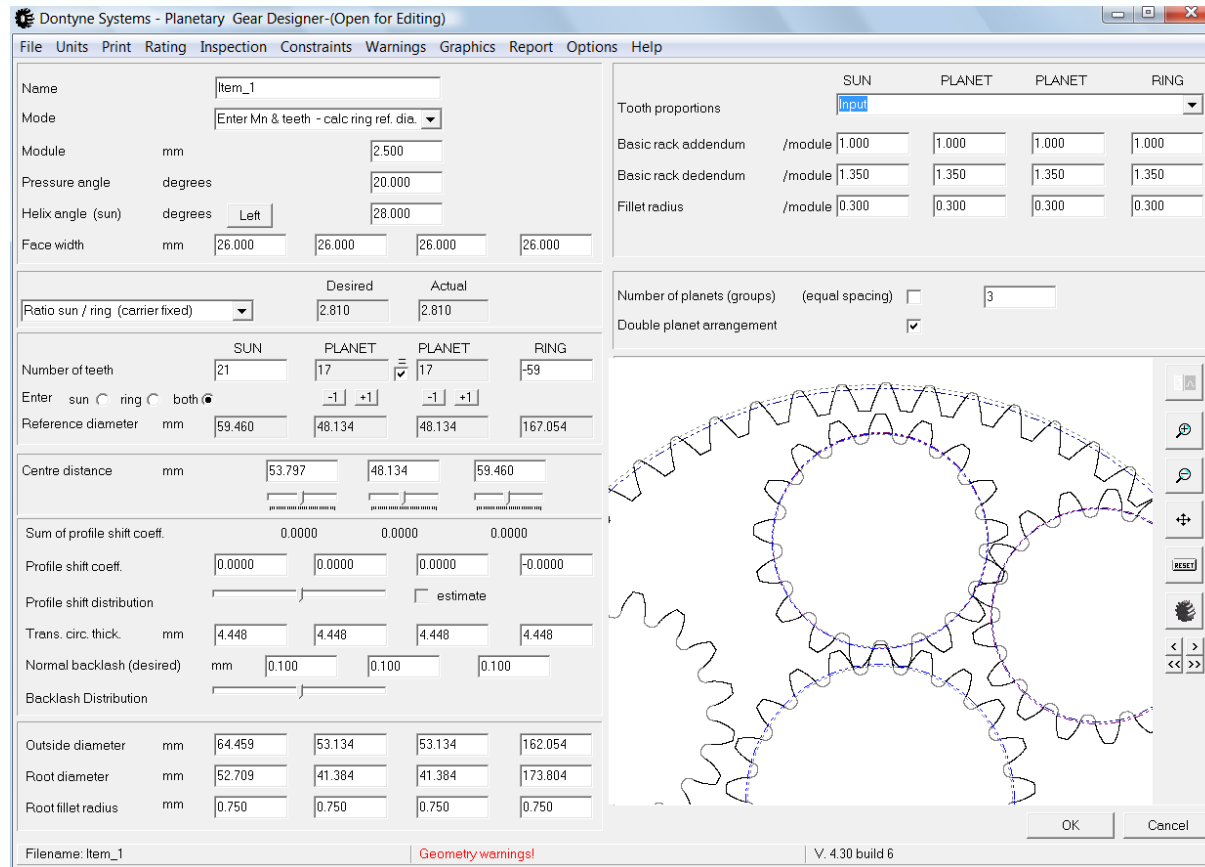


PLANETARY GEAR DESIGN SOFTWARE

A user friendly graphical interface

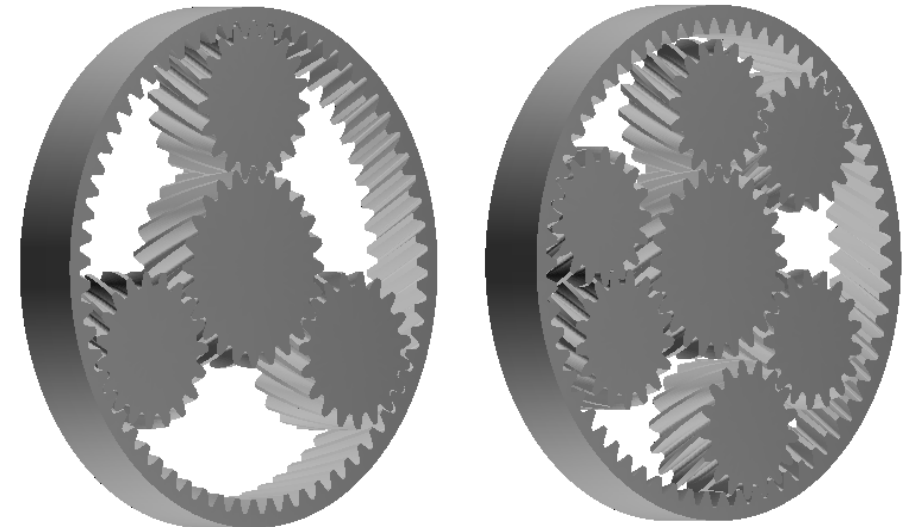


Component speed and torque calculation

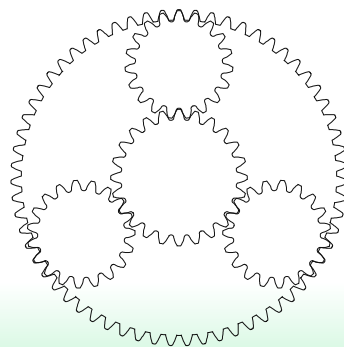
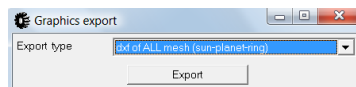
SPEEDS	
Sun Speed	1000.001
Carrier Speed	-0.000
Ring Speed	355.932
Planet Speed (absolute)	-1235.295 1235.295
Planet Speed (journal)	-1235.295 1235.295
TORQUES (nominal) (Nm)	
Torque sun to planet	318.310
Torque planet to sun	257.679
Torque planet to planet	-257.679
Torque planet to planet	-575.989
Carrier to	-894.299
Torque ring to planet	257.679
Torque planet to ring	257.679

3 Dimensional display of designs

Single planet and double (reversing idler) arrangement shown



Export DXF of tooth form



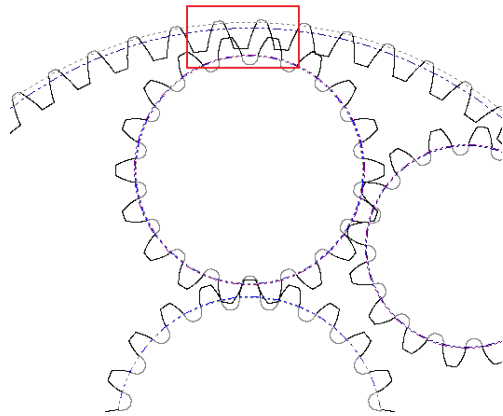
PLANETARY GEAR DESIGN SOFTWARE

Assembly and interference checking

Planet Position(deg)	0.0000	49.8012
Planet Position(deg)	123.1579	172.9591
Planet Position(deg)	236.8421	286.6433

Clearance between ring and planet outside diameters (mm) = -2.531
 Clearance between outer planet and sun outside diameters (mm) = 2.802
 Clearance between planet 2 and outer planet (mm) 1 = 14.749
 Clearance between planet 3 and outer planet (mm) 2 = 7.089
 Clearance between planet 1 and outer planet (mm) 3 = 14.749

Warnings
 Interference between ring and planet outside diameters



Contact Details

Europe

Email : info@dontyne.com

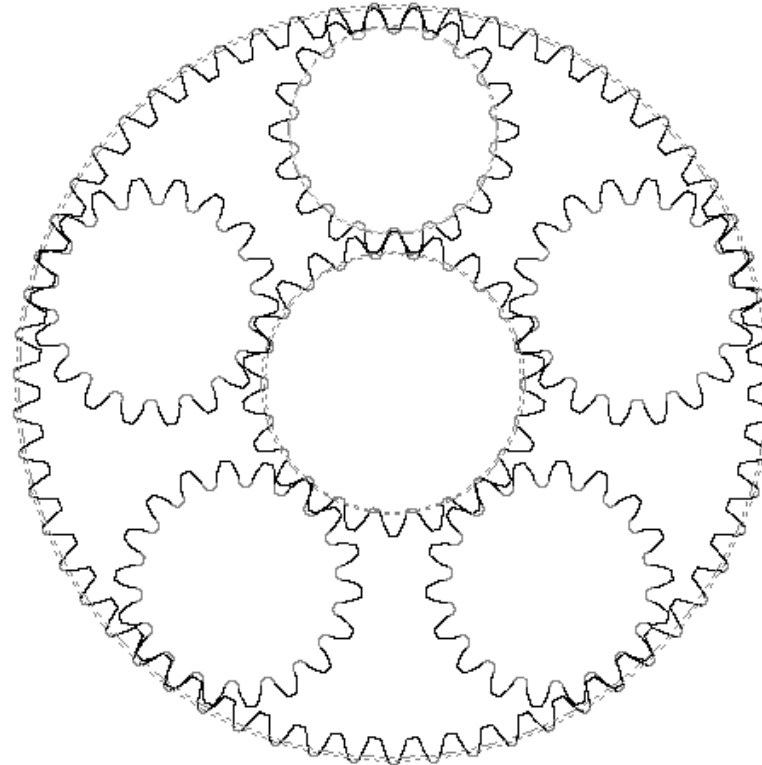
Telephone : +44 191 206 4021

Asia & Australasia

Email : asia@dontyne.com

Telephone : +61 3 57950816

Gear phasing calculation (i.e. factorizing and non-factorizing)



20.157	(ro)	ano.)			
123.158	(ro)	ano. re] .P1)	-0.346	(phase diff.)	
172.959	(ro)	ano. re] .P1)	-0.346	(phase diff.)	
286.643	(ro)	ang. re] .P1)	0.346	(phase diff.)	
30.000	(ro)	ano.)			
123.158	(ro)	ano. re] .P1)	-0.346	(phase diff.)	
172.959	(ro)	ano. re] .P1)	-0.346	(phase diff.)	
286.643	(ro)	ang. re] .P1)	0.346	(phase diff.)	

The standard features include :-

- Involute spur and helical gear geometry
- Assembly check for equal spacing
- Single or double planet arrangement
- Interference checks for outer diameters
- Speed and torque of all components
- ISO 6336 rating (inc. 2008 updates)
- Tolerances to ISO 1328
- Cumulative damage & safety factor
- Standardized tooth proportions or calculate for maximum contact ratio
- Plots of gears in 2D and 3D
- DXF output of transverse tooth profile
- Co-ordinates output of tooth profile
- Measurement over balls and chordal span including contact height
- Metric or Imperial(English) units
- Material database (user defined)
- Phasing calculation