

Software Feature	GearTrax	GearTraxPRO	GearTeq
Add-on for SolidWorks	Yes	Yes	Yes
Add-on for AutoDesk Inventor	Yes	Yes	Yes
Add-on for Solid Edge	Yes	Yes	Yes
User customizable interface			Yes
Multiple Components	Limit 2	Limit 2	Unlimited
Multiple Components on a single CAD part			Yes
Modifying CAD parts		Yes	Yes
Internal Spline as a bore on CAD part		Yes	Yes
Create CAD assemblies	Yes	Yes	Yes
Planetary wizard			Yes
High ratio cycloid gear set (involute teeth)			Yes
On screen animations	Yes	Yes	Yes
Design alerts		Yes	Yes
3D wireframe	Yes	Yes	Yes
Create XY outputs of involute points (text, Excel, CSV & DXF)		Yes	Yes
Create XYZ outputs of surfaces for spur, bevel and worm gear tooth cuts		Yes	Yes
Create data sheets:	Yes	Yes	Yes
↳ Excel	Yes	Yes	Yes
↳ CVS (Common Separated Values)	Yes	Yes	Yes
↳ Text	Yes	Yes	Yes
Simple spur gear sizing			Yes
Convert GearTrax Legacy files	Yes	Yes	Yes
Single build installs as x32 or x64 depending on operating system	Yes	Yes	Yes
Future enhancements other than bug and CAD release compatibility	Yes	Yes	Yes
Simple math calculations when entering values	Yes	Yes	Yes
Sizable window		Yes	Yes
On screen alerts		Yes	Yes
Spur and Helical Gears:	Yes	Yes	Yes
ANSI-AGMA 2008-A88	Yes	Yes	Yes
ANSI-AGMA 2015-1-A01	Yes	Yes	Yes
DIN 867	Yes	Yes	Yes
PGT (1-4)	Yes	Yes	Yes
British Standards	Yes	Yes	Yes
JIS B 1701	Yes	Yes	Yes
Fellow Stub			Yes
Cycloidal tooth profile (for clocks)		2017	
Company standards	Yes	Yes	Yes
Measurements over/under pins	Yes	Yes	Yes
Span measurements (over x number of teeth)	Yes	Yes	Yes
Chordal measurements	Yes	Yes	Yes
Test radius	Yes	Yes	Yes
CAD model suitable for manufacturing	Yes	Yes	Yes
Plastic mold shrinkage			Yes
Automatic balance addendum modifications	Yes	Yes	Yes
Racks	Yes	Yes	Yes
Tooth Tip Radius (2016 Release)		Yes	Yes
Hunting Mesh Information		Yes	Yes
Hob Protuberance		Yes	Yes
Face Gears		Yes	Yes
Parabolic and linear profile modifications		Yes	Yes
Radial and tapered longitudinal crowned teeth, full and half		Yes	Yes
Ability to edit CAD models		SW only	SW only
Additional center distance controls		Yes	Yes
On screen display of minimum tooth thickness		Yes	

Create a XY data sheet of the involute using Excel, text or CSV file (2016)	Yes	Yes	Yes
Create a DXF file, starting with version 2016.	Yes	Yes	Yes
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Bevel gears, spiral:	Yes	Yes	Yes
Gleason, Spiral and Zerol	Yes	Yes	Yes
Camnetics TruSpiral (accurate involute and true spiral)	Yes	Yes	Yes
Non-standard	Yes	Yes	Yes
Lead crowning, half and full radial		Yes	Yes
User control of the number of lofts sketches		Yes	Yes
CAD model suitable for prototyping	Yes	Yes	Yes
CAD models of straight bevel gears suitable for manufacturing	Yes	Yes	Yes
Create a DXF file, starting with version 2016.		Yes	Yes
Create a XYZ surface text file starting with version 2016		Yes	Yes
Bevel gears, straight:	Yes	Yes	Yes
Gleason	Yes	Yes	Yes
DIN 3971	Yes	Yes	Yes
Non-standard and Free-Form	Yes	Yes	Yes
CAD model suitable for manufacturing	Yes	Yes	Yes
Hunting Mesh Information		Yes	Yes
Lead crowning, half and full radial		Yes	Yes
Bevel tooth cuts can be added to a part file		Yes	Yes
Ability to edit CAD models		SW only	SW only
Worm gears:	Yes	Yes	Yes
Models suitable for manufacturing	Yes	Yes	Yes
Worm wheel tooth crowning		Yes	Yes
Worm measurement over 3 pins	Yes	Yes	Yes
Additional Worm Wheel cut method (cavity method, SOLIDWORKS only)		Yes	Yes
User control of the number of lofts sketches		Yes	Yes
Splines:	Yes	Yes	Yes
ANSI	Yes	Yes	Yes
DIN 5480 and 5482	Yes	Yes	Yes
JIS	Yes	Yes	Yes
CAD models suitable for manufacturing	Yes	Yes	Yes
Deviation chart for DIN and ANSI Module splines	Yes	Yes	Yes
An internal spline can be added to a spur gear or pinion.		Yes	Yes
Ability to edit CAD models		SW only	SW only
Create a DXF file starting with version 2016		Yes	Yes
Create a XY data sheet of the involute using Excel, text or CSV file (2016)		Yes	Yes
Chain sprockets:	Yes	Yes	Yes
ANSI	Yes	Yes	Yes
DIN	Yes	Yes	Yes
Special ASA	Yes	Yes	Yes
Silent Chain ASME_B29_2M_2007	Yes	Yes	Yes
Create a DXF file starting with 2016		Yes	Yes
Timing belt pulleys:	Yes	Yes	Yes
MXL, XXL, XL, L, H, XH	Yes	Yes	Yes
HTS 5, 8, 14, 20mm	Yes	Yes	Yes
HTD 3, 5, 8, 14mm	Yes	Yes	Yes
DIN 7721	Yes	Yes	Yes
PowerGrip GT 2, 3, 5, 8, 14	Yes	Yes	Yes
PolyChain GT 8, 14mm	Yes	Yes	Yes
MXL, XXL, XL, L, H, XH models suitable for manufacturing	Yes	Yes	Yes
Create a DXF file starting with 2016		Yes	Yes
Belt pulleys:	Yes	Yes	Yes
A, B, AB, C, D, E	Yes	Yes	Yes
V3, V5, V8	Yes	Yes	Yes
PolyV J, L, M	Yes	Yes	Yes
PolyV H, K	Yes	Yes	Yes

A, B, AB, C, D, E, V3, V5, V8 CAD models suitable for manufacturing

Yes

Yes

Yes

Create a DXF file starting with 2016

Yes

Yes

Software Feature	GearTrax	GearTraxPRO	GearTeq
ACME Screw and Nut			Yes
ACME_Threads_B1_5_1977			Yes
Stub_ACME_Threads_B1_5_1977			Yes
Cycloidal Drive Mechanisms		2017	
External and internal tangency		2017	
2 to 200 lobes		2017	
Elliptical gear sets (beta release)		2017	
Limited to 2 lobes, both gears identical		2017	

If you answer yes to any of the following questions then you should consider GearTraxPRO or GearTeq:

Would you consider your company gear professionals?	GearTraxPRO or GearTeq
Will you be doing any profile modification?	GearTraxPRO or GearTeq
Will you be doing any planetary gear sets?	GearTeq
Will you be needing high ration gears sets?	GearTeq
Will you be doing any tooth crowning?	GearTraxPRO or GearTeq
Thoroughly inspect all models before using them for manufacturing.	Last updated: 2016-09-30