

GCP4 calculates your gear data even when you have a limited amount of information.

Transverse	Given	Std.	Diff. Produced Using Std.
1 Circular Pitch	0.33432	0.33432	
2 Diametral Pitch	9.39693	9.39693	
3 Module Pitch	2.70301	2.70301	
4 Pressure Angle	21.17283	21.17283	
5 Pitch Diameter	3.19253	3.19253	
6 Base Pitch	0.31175	0.31175	
7 Base Diameter	2.97702	2.97702	
8 Circ. Tooth Thick	0.16483	0.16716	
9 Number of teeth	30	30	
10 Minor Diameter	2.94	2.94253	2.93652 **
11 Major Diameter	3.39	3.39253	
12 Whole Depth	0.225	0.225	0.22674 **
13 Addendum	0.08873	0.1	
14 Dedendum	0.12627	0.125	0.128
15 Helix Angle	20	20	
16 Lead	27.55621	27.55621	
17 Measure over Wire	3.429	3.43434	
18 Wire Size	0.1728	0.1728	

Normal	Given	Std.
19 Circular Pitch	0.31416	0.31416
20 Diametral Pitch	10	10
21 Module Pitch	2.54	2.54
22 Pressure Angle	20	20
23 Pitch Diameter N/A	3	3
24 Base Pitch	0.29521	0.29521
25 Base Diameter N/A	2.81908	2.81908
26 Circ. Tooth Thick	0.15489	0.15708

Item	Measure
Pin Contact	3.19342
Apex Diameter	3.52753
Base Tooth	0.19571
TIF Diameter	3.00999
Normal Land	0.07428

*Sample Printout

GCP4 is a Seven Program Package For use with:

- Internal Spur
- External Spur
- Helical Gears
- Worm Gears
- Rack & Worms
- Straight Sided Splines
- 30°, 37.5°, 45°, Pressure angle, involute splines, DIN, ANSI, Standard & non standard, Long addendum, and short addendum.

Ash Gear & Supply provides new and pre-owned tooling. Includes hobs, disc shapers, shank shapers, broaches, milling cutters, master gears, gear wires, software, books and more. If you are making spur gears, helical gears, worm gears, involute splines, parallel splines, serrations, sprockets for roller chains, timing belts or silent chains. We also offer Made-To-Order and Special design Hobs, Shaper Cutters, Broaches, Single Cutters, and more.



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GCP4 Gear Calculation SOFTWARE

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GCP4 Features 7 POWERFUL Programs In One Software Package

Choose from Six Different AGMA Standard Depth Systems

GCP4 Calculates many gear specifications.

- Minor produced when tooth thickness is achieved.
- T.I.F Diameter
- Roll Angles
- Span Measurements
- Land at Major
- Base Tooth Thickness
- Apex of Gear
- Operating Pitch and Pressure Angles
- Involute of Pressure Angles
- Long and short addendum (over and undersized gears)
- Point width needed on tool for racks, worms, and straight sided splines.
- Helix angle at any diameter
- Allows you to change wire sizes
- Checks for “teeth trimming” on internal gears.

GCP4 Features:

All the GCP4 programs share a common trait, field integration. Data fields are updated when a related field is modified. For example, if on the external spur gear screen the P.D. is moved down the tooth from 3” to 2.95” the fields for pressure angle and tooth thickness are updated to the values for the new P.D., (other related fields are also updated).

The Seven programs are easy to use. As little data as Pitch, Pressure Angle and Number of Teeth are all that’s needed to complete the gear data fields to standard values based on the depth system selected. Information can be output to a printer or a file.

GCP4 calculates gear data for:

- Pitch, including Module Diametral & Circular.
- Pressure angle at P.D.
- Major
- Minor
- Addendum
- Dedendum
- Tooth Thickness; circular and chordal
- MOW/MBW
- And much, much more.

