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Planetary gear calculator xls

Planetary gear set calculator. Planetary gearbox ratio calculation. Planetary gear calculator spreadsheet. Calculate planetary gear ratio.

Our Spur Gear Calculators Provide Solutions for Design and Manufacturing Needs ----- Our Spur Gear Calculators are designed to help you with gear design and manufacturing. We've incorporated industry standards, best practices, and our own experience into these calculators. The outputs can be easily pasted into Excel. These calculators cater to both experienced engineers and first-time makers. You can use them for designing and inspecting gears for your project. Additionally, they provide a DXF (or SVG) profile of racks, external, and internal spur gears, making it perfect for laser cutting, routing, water jet cutting, or importing into CAD packages. The calculators also offer features such as: * Measurement over pins calculator * Generation of 3D .STL models for 3D-printing or import into preferred CAD/modeling package * Calculation of gear dimensions (tip, pitch, root diameters; addendum, dedendum, working depth, whole depth) * External and internal spur gears (Measurement over Spheres) calculator * Determination of maximum horsepower your gear pair can transmit * Fundamental gear rack geometry calculation * Input and output speed for a gear train * Calculation of the Lewis Form Factor method * Change gears for machine tools These calculators have been designed to solve common gear problems that we've encountered in our own shop. Whether you're looking to design a new transmission, reverse engineer a broken gear, set up small-scale manufacturing, or refurbish and upgrade a machine, we can help. Contact us at contact@evolventdesign.com for more information. If you're designing a transmission, actuator, or other geared mechanism, the DXF generator creates a CAD sketch to get started. For shop processing, the Gear Dimension Calculator provides key dimensions for making gear blanks. The Change Gear Calculator helps set up your hobber or shaper, while the MOP calculator is ideal for reverse-engineering gears or checking processed gear sizes. Engineers will appreciate all calculators, but especially the DXF generator for its direct CAD importability. Our machinists use the Gear Dimension Calculator to make gear blanks in manual and CNC lathes, and the Change Gear Calculator simplifies setup on older equipment. The Job Shop frequently uses the MOP calculator for street jobs and appreciates how it fits "just right." The Pitch Plate calculator is often overlooked but allows you to fixture any gear for further processing after teeth are cut - yes, technology is in the numbers, and workholding can be done smoothly. Internal spur gears are calculated too. Look closely at the DXF and Gear Dimension calculators to unlock many new gear combinations, OD to ID, planetary, and more... These tools are enjoyable for "Makers" on various projects. In closing, Andrew shares how his self-made calculators have streamlined quote, process, and QA/QC steps by making these processes simpler and quicker. With the addition of utility calculators like Gear Center Distance, Span, and Pitch Plate, everyone can check numbers anywhere in the company. The manufacturing of metal spur gears involves various processes like milling, hobbing, shaping, wood routing, plasma cutting, water jet cutting, and 3D printing, all supported by these calculators. The rich history and complexity of gears fascinate Andrew, making him want to improve and innovate. Knowing their history makes the manufacturing process even more impressive, considering that machining forefathers figured it out so long ago. Gearing up for innovation. Discover how to create your own unique gear combinations and explore our YouTube and Media posts to learn about the 5,000 year history of gears. The possibilities are endless - from power transmission to angular rotation and beyond. We'd love to see your creative designs! Simply select a configuration and press space + arrow keys for a full page refresh.