

Chapter 9

GEARS

9-1. Gear Drives. It was shown in Chapter 5 that one shaft could cause another to turn by means of two bodies in pure rolling contact. If the speed ratio must be exact or if an appreciable amount of power is to be transmitted, a drive depending solely upon friction between the surfaces of the rolling bodies is not sufficiently positive. For this reason toothed wheels, called *gears*, are used in place of the rolling bodies. As the gears turn, the teeth of one gear slide on the teeth of the other but are so designed that the angular speeds of the gears are the same as those of the rolling bodies which they replace. Gear teeth constitute a direct application of the principles of sliding contact discussed in Chapter 5. A review of this chapter would be helpful in the study of gears.

9-2. Gearing Classified. In Art. 5-1, attention was called to the fact that rolling bodies may be used to connect axes that are parallel, intersecting, or neither parallel nor intersecting. The same case arises in the use of gears, and special names are given to the gear according to the case for which they are designed.

Gears may be classified on the above basis as follows:

Spur gears	External gears, Fig. 9-1	Connecting parallel axes
	Internal gears, Fig. 9-20 (The large gear is called an <i>annulus</i> .)	
	Twisted spur or helical gear, Fig. 9-30	
	Herringbone spur gear, Fig. 9-31	
	Rack and pinion, Fig. 9-17 (The rack is a gear of infinite radius.)	
Pin gearing, Fig. 9-22		
Bevel gears	Plain bevel (including miter gears, which are equal bevel gears on shafts at 90°), Fig. 9-28	Connecting intersecting axes
	Crown gears, Fig. 9-29	
	Spiral bevel gears, Figs. 9-32, 9-33, and 9-41	

Hyperboloidal or skew gears, Fig. 9-42 } Connecting axes in different planes
Hypoid, Fig. 9-43

Worm gearing { Worm and wheel, Fig. 9-44 } Connecting axes in different planes
Helical gears, Fig. 9-45

The name *pinion* is often applied to the smaller of a pair of gears.

The various kinds of gears enumerated above will be discussed in more detail after the principles which apply to gearing in general have been considered.

9-3. External Spur Gears. Figure 9-1 shows a pair of external spur gears in mesh with each other. Since these are the simplest form of gears, the following discussion of definitions and general principles will be based on this type of gears. It must be borne in mind, however, that these definitions and principles are general and apply to the other types of gears as well as spur gears.

9-4. Speed Ratio of a Pair of Gears. It was shown in the preceding chapter that if two cylinders as *A* and *B*, Fig. 9-2, are keyed

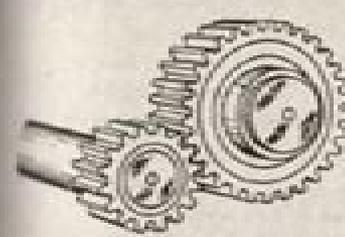


FIG. 9-1

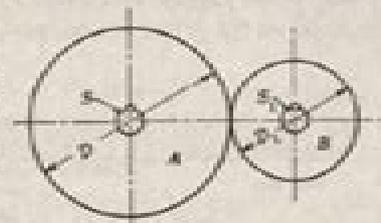


FIG. 9-2

to the shafts *S* and *S*₁ respectively, the angular speed of *S* is to the angular speed of *S*₁ as *D*₁ is to *D*, provided that there is sufficient friction between the circumferences of the disks to prevent one slipping on the other. To make sure that there shall be no slipping, wheels having teeth around their circumferences are substituted for the plain disks. The profiles of these teeth must be such that the speed ratio is constant. Such a pair of wheels is shown in Fig. 9-3. Here the larger gear has sixteen teeth and the smaller twelve. Assume that the shaft *S* is being turned from some external source of power; the gear *A*, since it is keyed to *S*, will turn with it. Then the teeth on *A* will push the teeth on *B*, a tooth on *A* coming in contact with a tooth on *B* and pushing that tooth along until the gears have turned so far around that those two teeth swing out of reach of each other

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