Gears and Gear Trains SPH4C

Gears are		and are therefore members of the
fami	ly. The teeth preven	t
Gears are used to	transfer or	·
25 TEETH DRIVER (EFFORT)	the effo number load gea equal to	d gear will turn at of the rotational speed of rt gear (). This of the of teeth of the effort gear to the number of teeth of the ar is called the which is the
The trade-off is that Example: What is to following set of geat IMA = (or the gear ratio =	he IMA of the ars?	, you
To create	gear rati	DRIVEN (LOAD) DRIVER (EFFORT) os, gears are often
connected in		
Example: Each gea	ar turns at twice the	speed of the one
to its left, which me	eans that the rightmo	st gear turns at
	times the speed of t	he leftmost gear.
90		gear trains allow the output shaft to be along the as the input shaft. Such a gearing system would
	be used in a device	such as

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