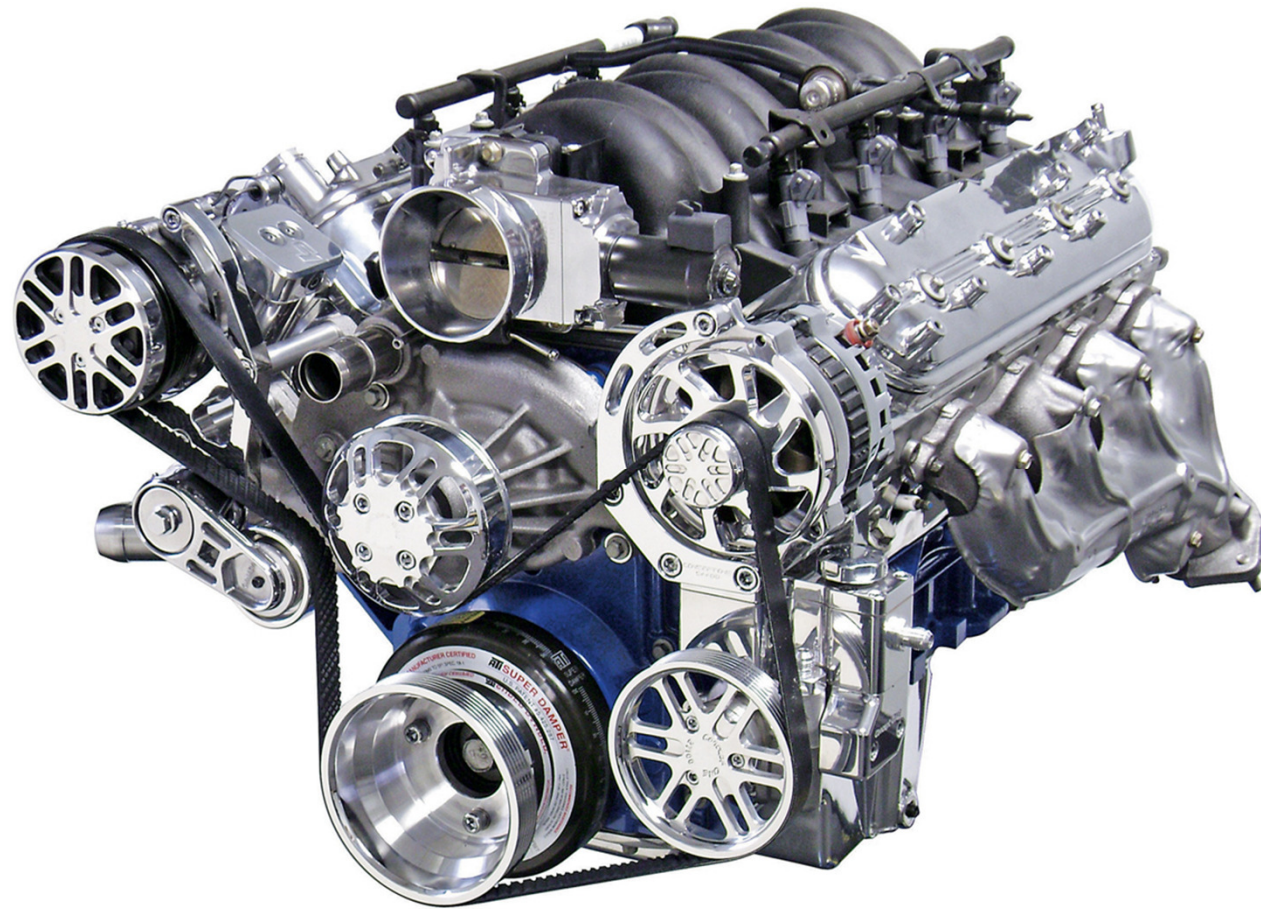
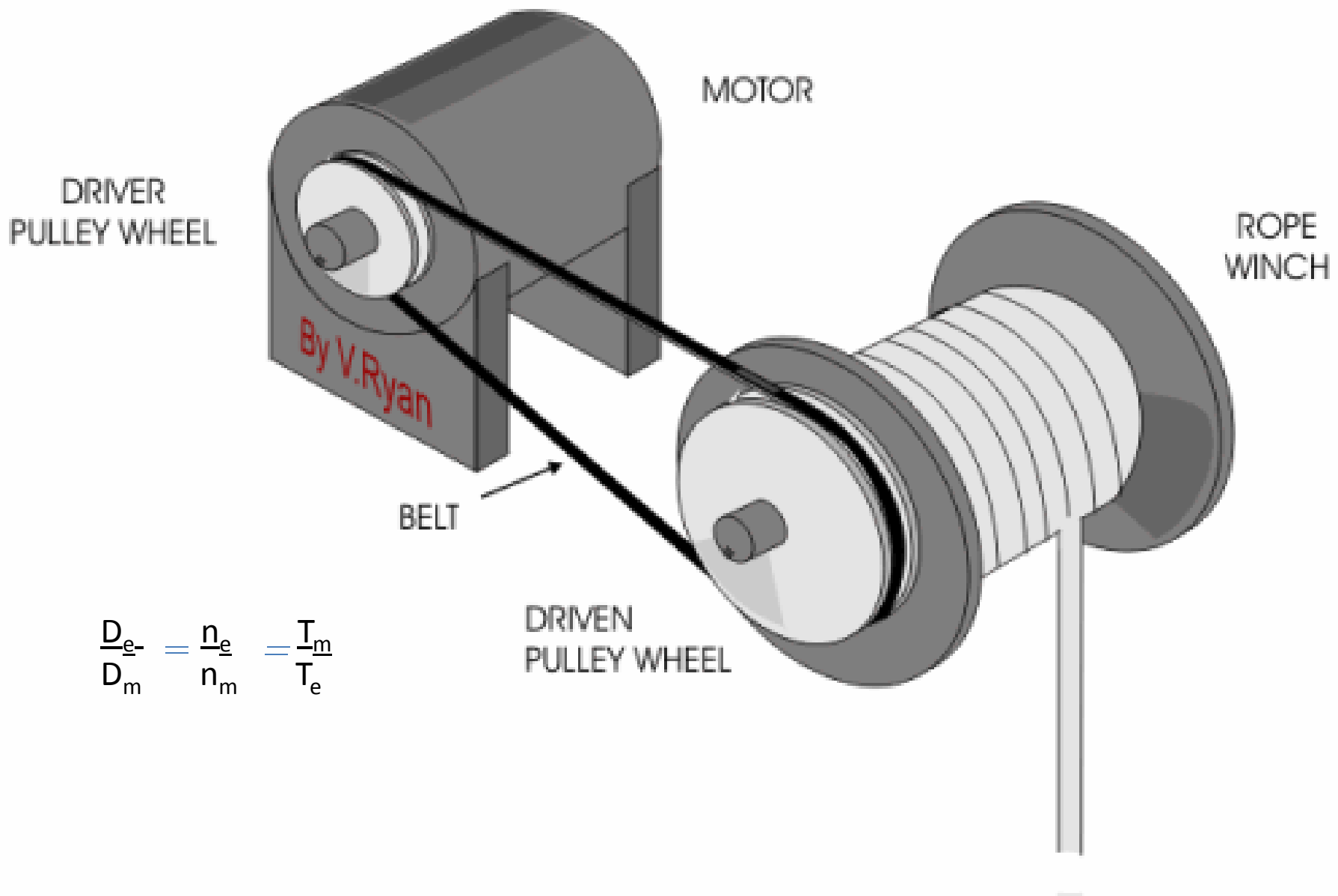


# PULLEY- BELT MECHANISM

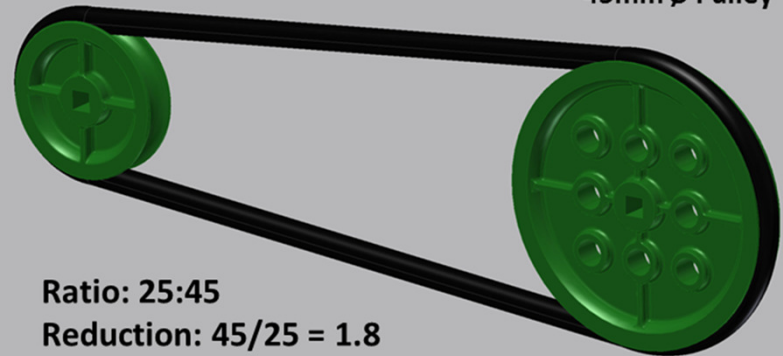




$$\frac{D_e}{D_m} = \frac{n_e}{n_m} = \frac{T_m}{T_e}$$

25 mm  $\varnothing$  Pulley

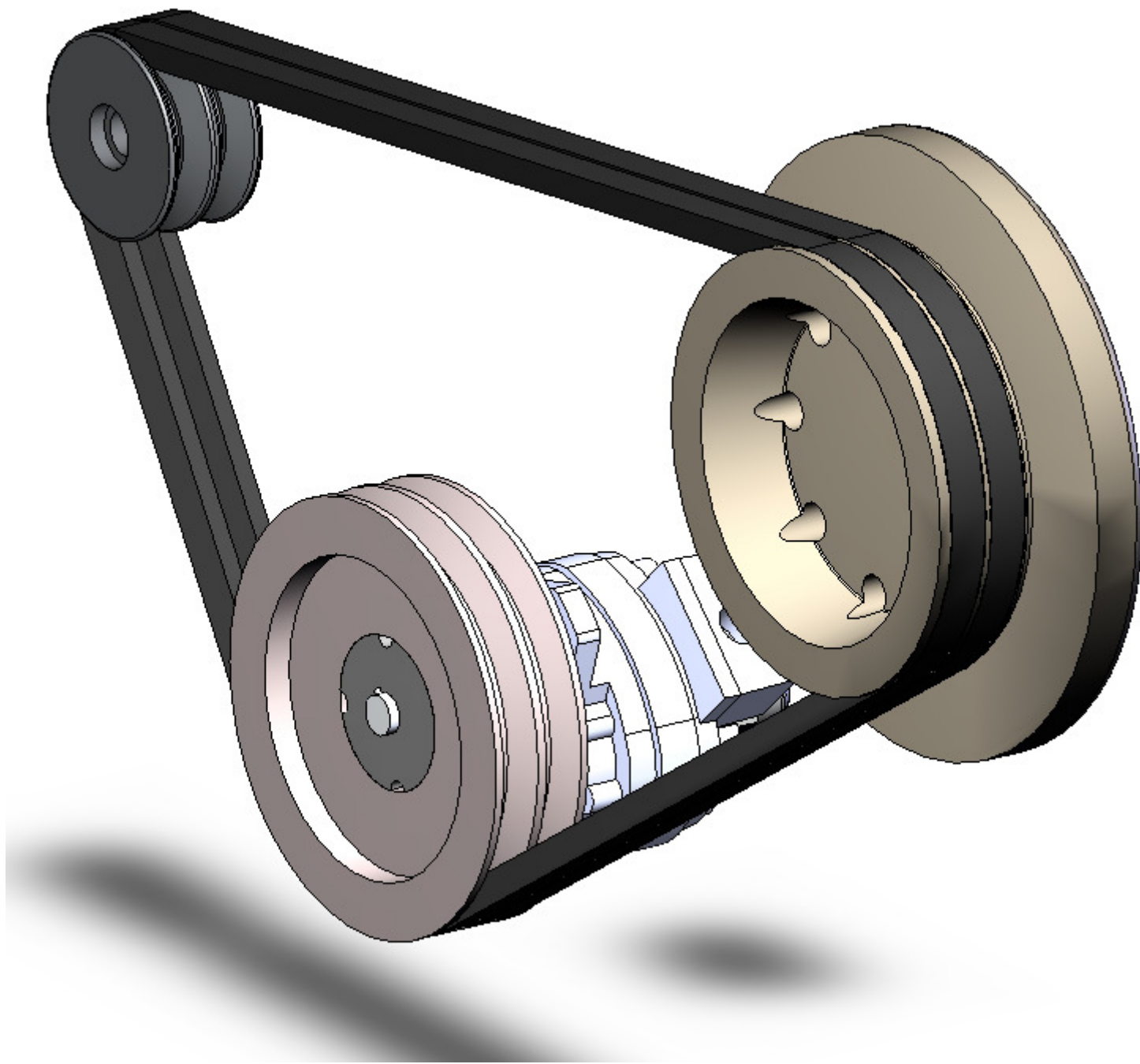
45mm  $\varnothing$  Pulley

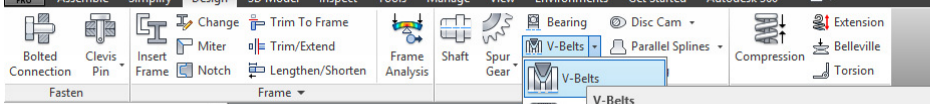


Ratio: 25:45

Reduction:  $45/25 = 1.8$







**Model**

- Relationships
- Representations
- Origin
- Shaft:1
- pulley:1
- DIN 471 30x1.5:1
- Key Connection:1
- Spur Gears:1
- Chain Drive:1
- V-Belt transmission:1
- Shaft:2

**V-Belts**

Designs and calculates v-belts drives.

The drive can consist of any number of grooved pulleys and flat idlers. Engineering analysis finds appropriate belt tension with respect to desired load and specific friction. It can assist with selection of the right belt for the operation conditions specified.

Press F1 for more help

**V-Belts Component Generator**

Design Calculation

**Belt**

20 V-Belt DIN 2215  
12.5 20 x 2500

**Belt Mid Plane**

Mid Plane Offset  $z_2$  0.000 mm

Number of belts  $z$  1.000 ul

Datum length  $L_d$  2548.000 mm

**Pulleys**

- 1. Grooved Pulley 20 x 280
- 2. Grooved Pulley 20 x 500

Click to add pulley...

OK Cancel

**Belt Options**

Create Belt As Solid