

Transmission System Design - Flat Belt

Design Report

INPUT PARAMETERS

Power :	50.0	kW
Pinion Speed :	1800.0	RPM
Speed Ratio :	3.5	-
Center Distance :	4.0	m
Smaller/Pinion Pulley Diameter :	0.2	m
Loading Condition :	Shock	-
Drive Type :	Cross	-

OUTPUT PARAMETERS

Design Power :	72.75	kW
Number Of Plies :	5	-
Belt Rating :	0.29	kW/mm
Standard Belt Width :	250	mm
Pulley Width :	275	mm
Belt Length (Tensioned) :	9.369	m
Output Pulley Diameter :	0.7	m
Belt Type :	Dunlop FORT 949 g Fabric Belting	