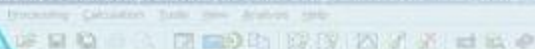


**TEDATA**



**Input Page**

### Shaft Design and Analysis

Rotational speed of shaft: 1000 rpm  
Ultimate tensile strength: 650 N/mm<sup>2</sup>  
Yield strength: 420 N/mm<sup>2</sup>  
Surface condition: 0.8  
Desired reliability: 0.999999  
Design factor: 1.3

Shaft parts

No.	Part length	h	Filter
1	0	0	0.17
2	0	0	0.17
3	0	0	0.03
4	0	0	0.17

**Installation**

**Exit**

Shaft design and analysis  
A shaft is the component of a machine that transmits rotational motion, torque and power. It is designed to transmit power from one part of a machine to another part of a machine. To design a shaft, the designer must know the torque, power, speed, material, and other parameters of the shaft. The design process involves determining the shaft diameter, length, and other parameters based on the given requirements.

**MDESIGN**