

5. PULLEYS

$$5.1 \quad N_{DR} \times D_{DR} = N_{DN} \times D_{DN}$$

$$5.2 \quad \text{Power (P)} = \frac{2\pi NT}{60}$$

$$5.3 \quad \text{Velocity ratio} = \frac{\text{Diameter of driven pulley}}{\text{Diameter of driver pulley}}$$

6. KEYWAYS

$$6.1 \quad \text{Width of key} = \frac{\text{Diameter of shaft}}{4}$$

$$6.2 \quad \text{Thickness of key} = \frac{\text{Diameter of shaft}}{6}$$

$$6.3 \quad \text{Length of key} = 1.5 \times \text{Diameter of shaft}$$

$$6.4 \quad \text{Standard taper for taper key: } 1 \text{ in } 100 \text{ or } 1 : 100$$

7. CINCINNATI DIVIDING HEAD TABLE FOR MILLING MACHINE

Hole circles											
Side 1	24	25	28	30	34	37	38	39	41	42	43
Side 2	46	47	49	51	53	54	57	58	59	62	66
Change gears											
Gears	24 x 2	28	32	40	44	48	56	64	72	86	100

$$7.1 \quad \text{Indexing} = \frac{40}{n} \quad (n = \text{number of divisions})$$

$$7.2 \quad \frac{Dr}{Dn} = \frac{A - n}{A} \times \frac{40}{1} \quad \text{OR} \quad \frac{Dr}{Dn} = (A - n) \times \frac{40}{A}$$

Where:

A = chosen number of divisions

n = real number of divisions

Fitting And Machining Npast Exam Papers

Emilie Sanchez



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