

## Looking toward tomorrow with fresh visions

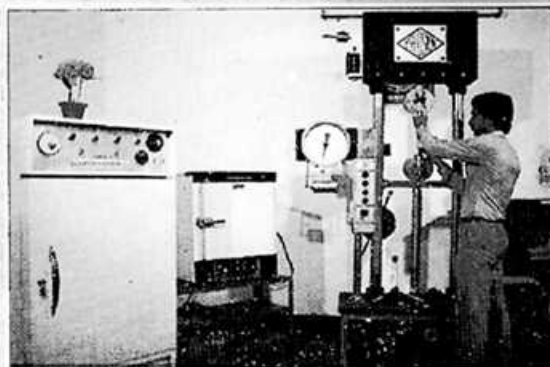
**Universal HI-LIFE Polyester Cord V-Belts** are the result of years of experience and practical exercise combining optimum strength and flexibility with marked resistance to wear.

Right belts for the job are produced by studying the performance under actual operating conditions. **Universal HI-LIFE** has been specially developed to cater to an ever increasing demand of quality conscious industries for higher and higher standards of working performance. Thus, this premium quality V-Belt that conforms to IS:2494 and International Specifications DIN 7753, has fostered many engineers and designers by providing answers to troublesome drive problems.

Pulleys and couplings that are properly machined for easy installation.

*Anil Gupta*

Anil Gupta  
President



In-house evaluation of Finished Belt on Tensile Testing Machine in the Lab.

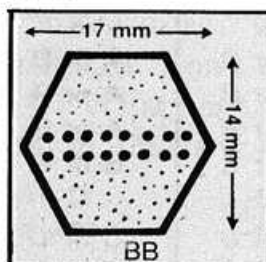
## VEE - BELTS

Vee Belts are used for motor to pulley power transmission in threshers, harvester combines, automobiles, rice mills, flour mills, textiles, sugar, fertilizer, cement, coal, thermal power plants, paper mills, ceramic industries, and other industrial applications and "Universal" offers polyester cord v-belts combining optimum strength and flexibility with marked resistance to wear.

### Hexagonal/BB belts for modern rice mills BS-3733

Range of Nominal Inside Length

Inches	mm
72-190	-



Compound processing in mixing mill.



### DRIVE DESIGN FORMULAE

$$L = 2C + 1.57(D+d) + \frac{(D-d)^2}{4C}$$

$$C = A + \sqrt{A^2 - B}$$

$$A = \frac{L - 0.3925(D+d)}{4}$$

$$B = \frac{(D-d)^2}{8}$$

$$\text{Number of belts, } N = \frac{P \times F_s}{R \times F_i \times F_c}$$

$$R \times F_i \times F_c$$

where

L = Belt Pitch Length, mm

C = Centre Distance, mm

D = Pitch dia. of large pulley, mm

d = Pitch dia. of small pulley, mm

R = Power Rating per belt, KW

F<sub>i</sub> = Belt Length Correction Factor

F<sub>c</sub> = Arc of contact correction Factor

F<sub>s</sub> = Service Factor

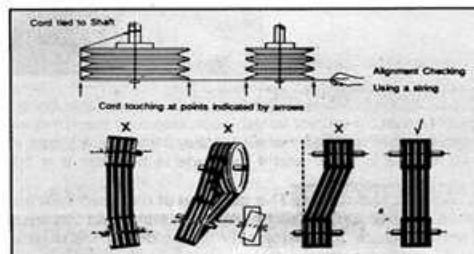
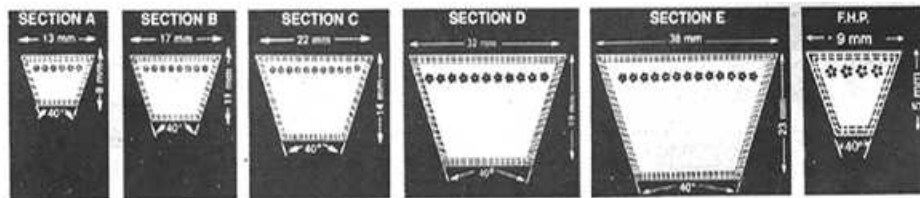
P = Drive Power in KW.

### RECOMMENDED PULLEY PITCH DIAMETERS

V-Belt Section	Permissible Min. Pulley Pitch Diameter		Recommended Min. Pulley Pitch Diameter	
	mm	inch	mm	inch
A	75	3	95	3.8
B	125	5	145	5.8
C	200	8	225	9
D	315	12.6	350	14

RANGE OF SECTION & SIZES (Conforming to IS : 2494, DIN 7753 and BS 3790)

### CLASSICAL



INFORMATION TO BE SUPPLIED WITH ENQUIRY OR ORDER

Range of Nominal Inside Length

(i) Section (ii) Size in inches or mm (iii) Quantity in nos.

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
16-180	406-4572	24-360	610-9144	36-600	916-15240	75-900	1905-15240	158-600	4013-15240		2170-2664