



DUNLOP

**Dunlop Is Dunlop,
Always Ahead**



INDIA TYRE & RUBBER COMPANY (INDIA) LTD.

INTRODUCTION OF DUNLOP DYNAMITZ V BELTS

DUNLOP DYNAMITZ V Belts have been used for decades across all different industries and various applications, giving drive solution to customers all over India.

Applied technology allows reaching optimal dimensional precision in DUNLOP DYNAMITZ V Belts to make them suitable for multiple transmissions. This dimensional stability continues also during the belt use.

High variety of belt sizes available permits the application of DUNLOP DYNAMITZ V Belt in a wide range of applications, such as;



Stone Crushers



Machine Tools



Industrial Machines



Textile Machines



Agriculture Machineries

The main components of DUNLOP DYNAMITZ V Belts are

- 1) **BELT COMPOUND:** The specially made cushion rubber compound of proven DUNLOP recipe, with superior oil resistance, excellent heat resistance, improved wear resistance and electrical properties provide high transmission efficiency and assure a minimum rubber wear off of Dunlop Dynamitz V Belt.
- 2) **TENSILE MEMBER:** Consisting of high-strength & low-stretch polyester cord, which permits length stability of the belt life. It contributes to longer break free operational life of Dunlop Dynamitz V Belt.
- 3) **FABRIC JACKET OR COVER:** Made of fabric, protecting the tensile member and permitting the use of back side idler which contributes to smooth running and higher efficiency of Dunlop Dynamitz V Belt.

MAIN FEATURES OF DUNLOP DYNAMITZ V BELTS

- Smooth starting and running in operation.
- Low maintenance.
- High efficiency.
- Extremely wide horsepower ranges.
- Quality checked at every level
- Dampen vibration between driver and driven pulleys.

- Long service life
- Enhanced quality and performance
- Easy installation.
- Oil & Heat resistance.
- Antistatic properties.
- Smooth operation

IDENTIFICATION CODE OF DUNLOP DYNAMITZ V BELT

The code is composed of letters and numbers as follows :

DUNLOP DYNAMITZ B 55 / 1440

- # **DUNLOP DYNAMITZ** : Brand Name
- # **B** : Belt Section code
- # **55** : Inside Length in Inches
- # **1440** : Pitch Length in millimeters



RANGE & GRADES OF DUNLOP DYNAMITZ V BELTS



DUNLOP DYNAMITZ V BELTS

NOMINAL DIMENSION					
Belt Section	Top Width (mm)	Height (mm)	Angle (Degree)	Inside Length (Inch)	Pitch Length (mm)
A	13.0	8.0	40	23 - 200	620 - 5116
B	17.0	11.0	40	24 - 298	653 - 7612
C	22.0	14.0	40	46 - 368	1224 - 9403
D	32.0	19.0	40	120 - 418	3127 - 10696
E	38.0	23.0	40	180 - 420	4664 - 10760

Features :

- Suitable for V-flat drive
- Antistatic, oil & heat resistance
- Min. recommended belt speed is 30 M/sec.

Application :

- Agricultural machinery, • Industrial Machinery,
- Construction Machinery, • Mining



DUNLOP DYNAMITZ SPACE SAVER WEDGE BELTS

NOMINAL DIMENSION				
Belt Section	Top Width (mm)	Height (mm)	Angle (Degree)	Pitch Length (mm)
SPZ	9.7	8.0	40	630 - 3550
SPA	12.7	10.0	40	800 - 4500
SPB	16.7	13.0	40	1250 - 8000
SPC	22.0	18.0	40	2000 - 17500

Features :

- Less deformation when in contact with the pulleys, • High power transmission
- Antistatic, oil & heat resistance

Application :

- All new drives, • Industrial Application
- Stone Crusher Drive



DUNLOP DYNAMITZ FRICTIONAL HORSE POWER (FHP) BELTS

NOMINAL DIMENSION				
Belt Section	Top Width (mm)	Height (mm)	Angle (Degree)	Length (mm)
FHP	10.0	6.0	40	2170 - 2594

Features :

- Universal classic profile, • Oil, heat, Ozone & Abrasion Resistance compound.
- Static Conductive

Application :

- Shop Equipment, • Home appliances,
- Light duty Machinery, • Blowers



DUNLOP DYNAMITZ HEXAGONAL BELTS

NOMINAL DIMENSION				
Belt Section	Top Width (mm)	Height (mm)	Angle (Degree)	Effective Length (Inches)
BB	17.0	13.0	40	70 - 109

Features :

- Suitable for drive where several pulleys in the same plane are to be driven in the clockwise and anti direction simultaneously.
- Specially Dunlop recipe compound based for good flex fatigue resistance

Application :

- Agricultural Machinery, • Textile Machinery,
- Rice Mills.

DUNLOP DYNAMITZ V BELTS INSTALLATION & OPERATION

● INSTALLATION OF DUNLOP DYNAMITZ V BELT

For proper installation, reduce the center distance between two drives in such a way that **DUNLOP DYNAMITZ V Belt** can be placed in the sheave grooves without applying any force. Arrange the V Belts so that both the top and bottom spans have the same amount of sag. Apply tension to the V Belts by increasing the center distance until the V Belts are snug and have a live to get proper springy action when struck with the hand.

Start and continue the drive for a few minutes to seat the **DUNLOP DYNAMITZ V Belts** in the sheave grooves. Observe the operation of the drive under its highest load condition. If any slight bowing of the slack side of the drive, then it indicates the belt is running under adequate tension.

Check the tension of this new drive several times during the first 24 hours of operation, by observing the slack side span. If the V Belt slips, it is too loose, increase the tension by increasing the center distance between two drives. Never apply V Belt dressing, as this will damage the V Belt and cause early failure.

● STORAGE PROCEDURE OF DUNLOP DYNAMITZ V-BELT

New / unused **DUNLOP DYNAMITZ V Belts** should be hang on "saddles" or on large-diameter tubular brackets properly. Higher diameter Dunlop Dynamitz V Belts can be stacked by proper coiling to save the space (refer figure below). Short diameter V Belts can be stored on shelves, but stacks should not be more than 300 mm high, as the bottom belts may be deformed.



Environment : The storage premises should be cool, dry and well ventilated but not draughty.

Temperature : Storage temperature should be within 5°C to 30°C max. Lower temperature causes stiffening the belt but is accepted in the storage. In order to avoid damages in the start-up, it is necessary to heat the belt up to around 20°C for 15-20 minutes before making it run on the machine.

Light : Belt should be protected from light, especially direct sunlight and artificial light with high ultraviolet rays (neon light) etc.

Ozone : High voltage electrical machines or fluorescent light sources should not be installed in the store to avoid ozone cracking in the belt.

Chemicals : Flammable materials, lubricants, acids or any other aggressive material should not be kept in the store. Belt may be irreparably damaged by the contamination of such agents.

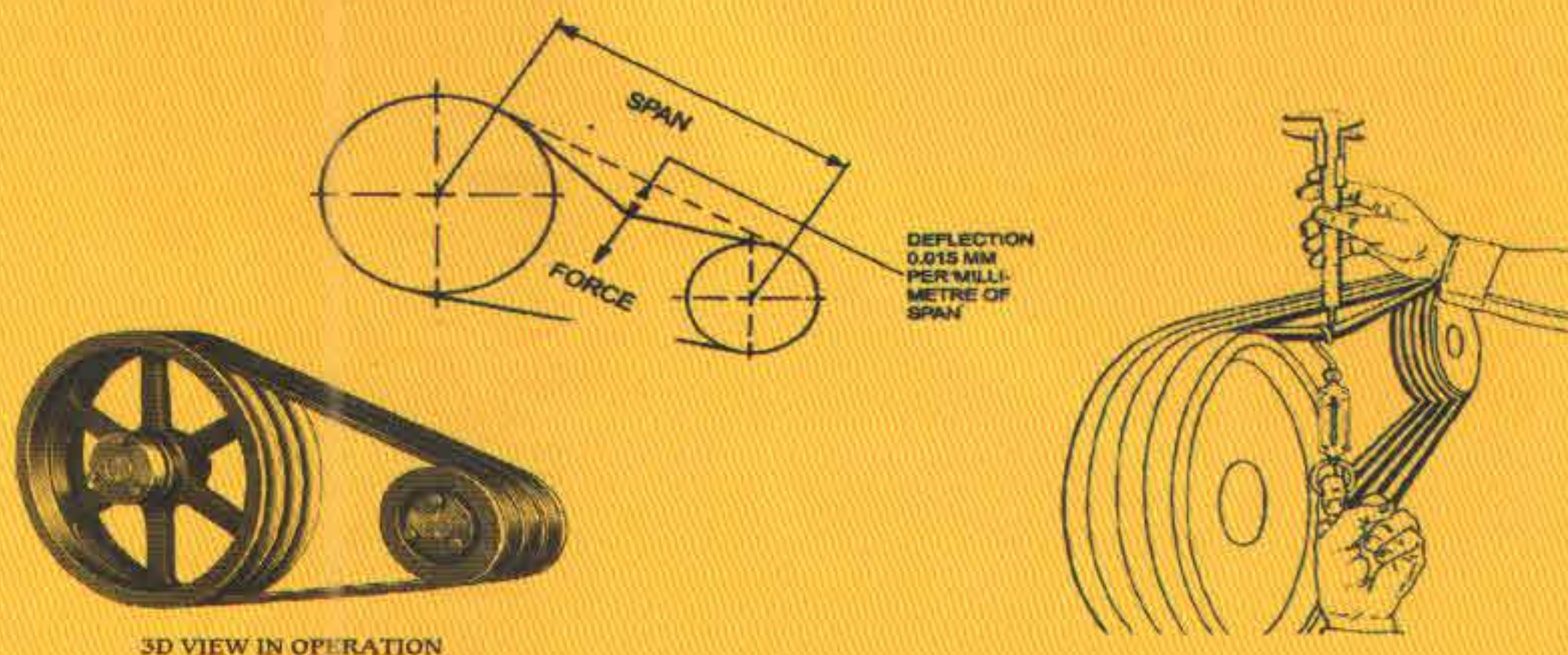
● CLEANING OF DUNLOP DYNAMITZ V BELTS:

Never clean the belt. If needed for any reason to clean the belt, use a dry towel or a piece of soft clean cloth soaked with a glycerin / alcohol mixture in the ratio of 1:10. Other solvents, mainly petrol or benzene, must not be used. Sharp-edged objects should be avoided for cleaning the belt.

TROUBLE SHOOTING FOR DUNLOP DYNAMITZ V BELT DRIVES

PROBLEMS	PROBABLE CAUSES	CORRECTIVE ACTIONS
BELT SLIPPAGE	# Lack of tension # Overloaded drive # Worn pulley grooves # Oily drive conditions	# Increase tension # Reduce load or redesign drive # Replace pulley # Clean the drive properly
BELT TURN OVER	# Excessive Vibration # Misaligned drive # Heavy impulse load # Wrong pulley grooves # Broken cords caused by prying over pulley	# Check vibration dampening # Realign and retention drive # Use spring-loaded idler # Replace pulley # Replace belt and do not pry belts over pulley
RAPID WEAR	# Worn pulley groove # Overloaded drive # Pulleys misaligned # Belt slippage # Very small pulley diameter	# Replace pulley # Reduce load or redesign drive # Correct alignment # Increase tension # Redesign drive
BELT STRETCH	# Insufficient take-up # Broken cord during operation # Excessive drive tension	# Readjust take-up # Replace all belts # Use proper tension
BELT SQUEAL	# Belt slippage # Insufficient arc of contact	# Increase tension # Adjust centre distance or redesign drive
OVERHEATED BEARINGS	# Under designed bearings # Drive under tensioned # Poor drive design	# Check & redesign bearing # Retention # Redesign

PROPER TENSIONING OF DUNLOP DYNAMITZ V BELT

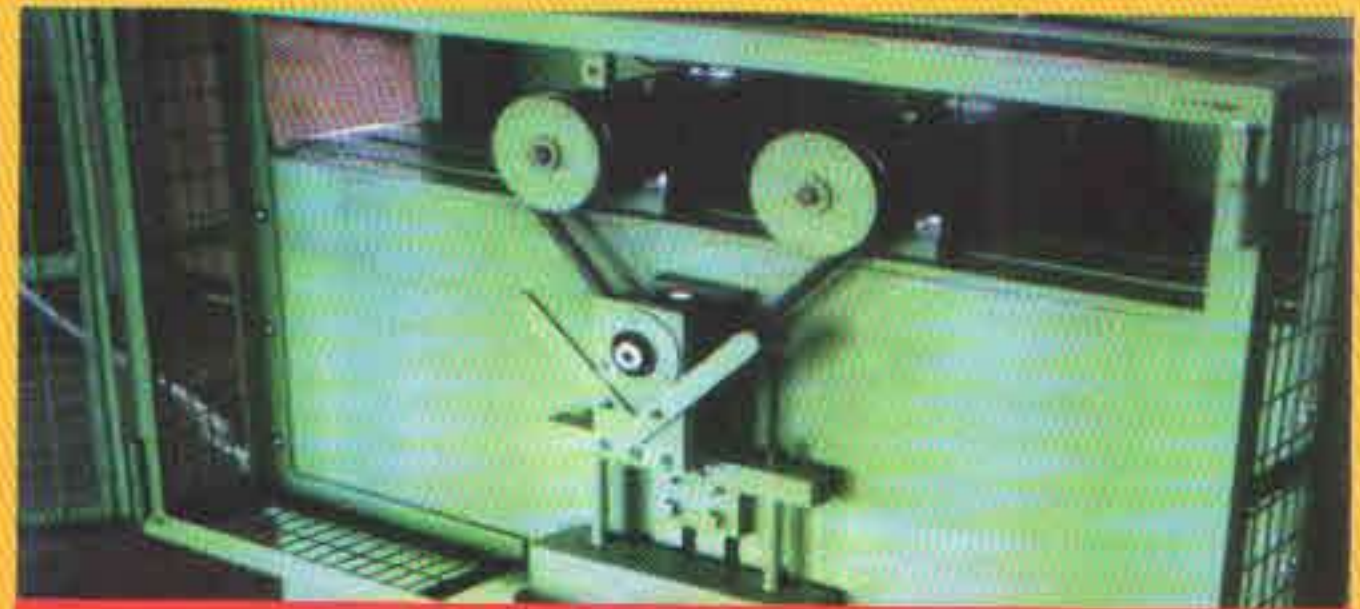


QUALITY ASSURANCE OF DUNLOP DYNAMITZ V BELT

DUNLOP DYNAMITZ V BELT follows the Indian Standard (IS: 2494-P1-Latest) and International Standard (ISO 4184 & BS 3790) for testing of finished products to ensure the consistent quality of product performance in application.

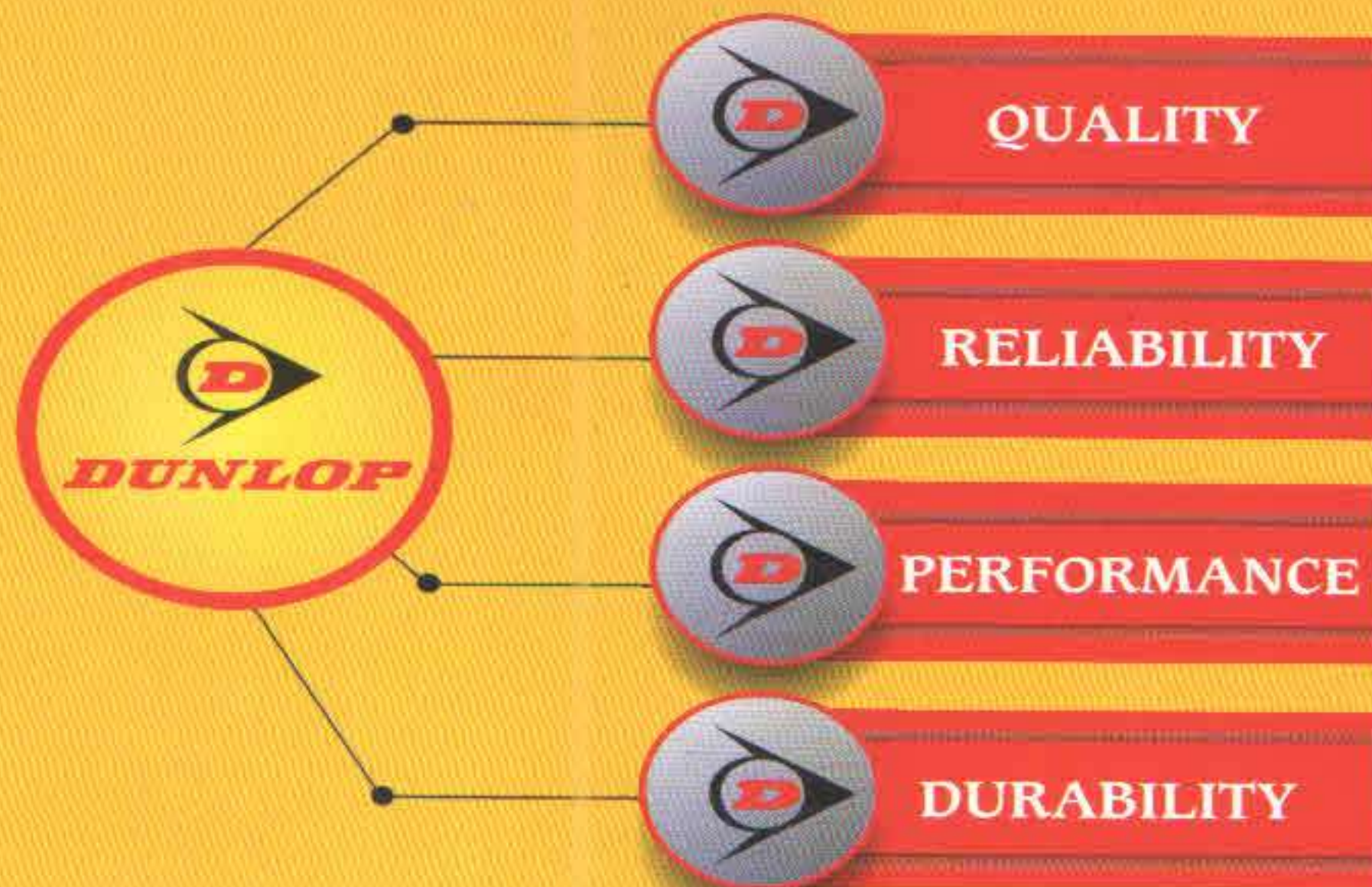


QUALITY TESTING LAB



QUALITY TESTING LAB

ADVANTAGE DUNLOP



Dunlop Dynamitz has been specially developed to meet the challenge of industries that constantly demand yet higher standards in Quality, Reliability, Performance and Durability.



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ESTD. 1958



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