IMEC
Industrial Mechanical Engineering Company

V-BELT
CATALOGUE

"We are with you
With our quality"

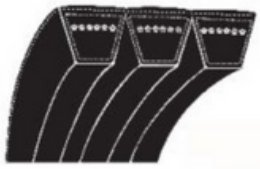
www.imec.az

No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan

+99450 243 3441

info@imec.az

Classic V-Belt



Classic Banded V-Belt

Wedge V-Belt

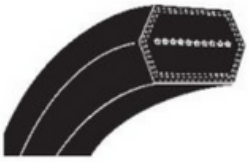
Classic Notched V-Belt

Wedge Notched V-Belt

V-Rib/Multi V-Belt

Types of V-belts

Provided by Our company



Classic Double V-Belt

Classic V-Belt

V-Belts are the most common type of drive belt used for power transmission. Their primary function is to transmit power from a primary source, like a motor, to a secondary driven unit. They provide the best combination of traction, speed transfer, load distribution, and extended service life. Most are endless and their cross section is trapezoidal or "V" shaped.

The "V" shape of the belt tracks in a similarly shaped groove on a pulley or sheave. The v-belt wedges into the groove as the load increases creating power distribution and torque. V-belts are commonly made of rubber or polymer or there may be fibers embedded for added strength and reinforcement.

www.imec.az

No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan

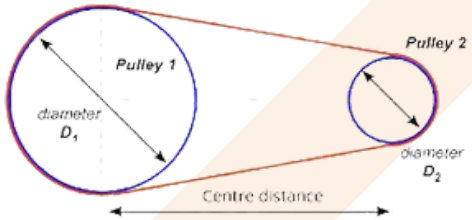
+99450 243 3441

info@imec.az

Classic V-belts A,B,C,D,E

The classical V-Belt is the most common of all V-Belt types, and it has been in existence even before other V-Belt types. This type of V-Belt has a broad scope of usage in different areas such as Agriculture, Industrial Machinery, ventilation etc. and this is due to the fact that it covers a load range from 1 horsepower to 500 horsepower. There is no doubt that the Narrow Wedge is more efficient than the classical V-Belt; however, they work seamlessly with higher bearing loads and have a high tolerance for adverse operating conditions.

V-Belt Technical Calculation

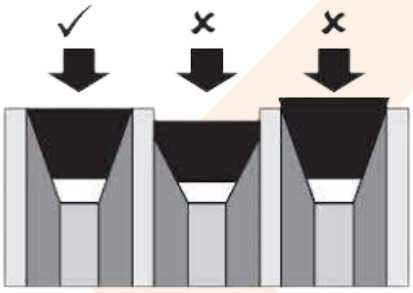


$$Lp = 2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$$

www.imec.az
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
+99450 243 3441
info@imec.az

Classic Banded V-belts A,B,C,D

Speed fluctuations can cause single v-belts to turn over in the sheave. Banded belts prevent this by using a backing material across several single belts that work in unison. A prefix in the part number identifies the number of belts in the band (4/5VX1200 is a four belt banded set).



www.imec.az
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
+99450 243 3441
info@imec.az

Wedge V-belts 3V, 5V, 8V

This type of V-Belt is more efficient than the Classical type as they have the most significant degree possible for the distribution of force and load transfer, which is the main advantage over the Classical type. Narrow Wedge is able to transmit three times the Horsepower a classical V-Belt would in the same drive space; they are very suitable for drives at high speed and its well-known for its sturdy, compact size. Unlike the classical V-Belt, Narrow Wedge can handle drives from 1 horsepower to 1,000 horsepower.

www.imec.az
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
+99450 243 3441
info@imec.az

Classic Notched V-Belt Fractional Horsepower

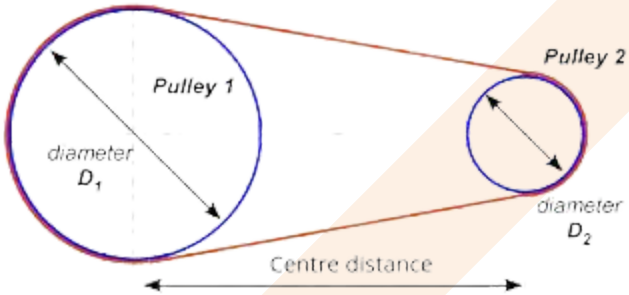
Unlike the two mentioned types of V-Belts, the Fractional Horsepower is different in operation as it is only designed for light loads and is often used as a single belt on drives that run at one Horsepower or even less. This type of belt is what you see in domestic machines popular in household equipment such as washing machines, fans, and refrigerators. Fractional Horsepower can never be used on any heavy-duty industrial machinery even if it fits perfectly well.

www.imec.az
+99450 243 3441
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
info@imec.az

Micro Rib (Serpentine) V-Belt

Extremely flexible and will function well on pulley with small diameters and serpentine drives.

V-Belt Technical Calculation



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

www.imec.az
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
+99450 243 3441
info@imec.az

Classic Double V-Belt AA, BB, CC

Double-sided v-belts are used in applications where the belt has the ability to reverse bend.

www.imec.az
No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan
+99450 243 3441
info@imec.az

IMEC
Industrial Mechanical Engineering Company

End Of Proposal

THANK YOU

IMEC" LLC engineering company is a dynamic, innovative startup company which has been formed in 2022. The mission of company involves in advanced engineering solutions, consulting, commercial services in Mining, Agriculture, Oil & Gas industry which is expected to grow and develop within the next ten years and in other industrial fields; Supply of equipment, its startup, periodic planned and unplanned maintenance works; designing Pipeline projects and pipeline construction works.

www.imec.az

No12, 1222 Alasgar Gayibov,
Narimanov dist. Baku Azerbaijan

+99450 243 3441

info@imec.az