



Function

Flexible link between the motor and the machine:

- no slip
- low and high speed
- important capacity of load
- allow to transmit high torque (replace transmission by chain with more advantages)
- no noise and no maintenance

Conception

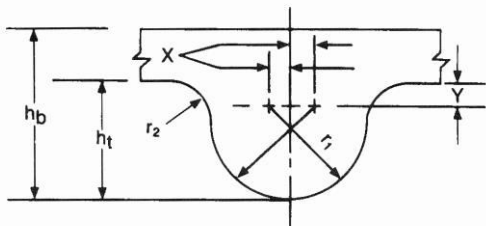
Endless timing belts Synchro HTB, teeth with curvilinear profile, made of :

- glass fibre reinforcement which resists to tightening and elongation
- mix of neoprene rubber
- moulded teeth precision which guarantees a perfect engagement with the pulley's teeth, this cancels the critical strain area and the shearing effect.
- protected coating in nylon which decreases the friction ratio between belts and pulleys

General specifications

- Positive drive which avoids vibrations due to belt slip (as we can see with V.belts)
- Constant speed of the transmission : no knocks, continuous engagement with each tooth of pulley which allows a constant angular speed, with no shake, no vibration as opposed to a chain drive.
- No maintenance. The glass fibre reinforcement anti-elongation avoids the re-tightening of timing belts.
- High mechanical efficiency : reduced friction ratio which reduces temperature, reduces the tightening of the belt and increases transmission's lifetime.
- Efficiency 98 %
- Working temperature : -34 °C to +85 °C

Teeth profil



Pitch (mm)	Thickness hb (mm)	ht (mm)	Radius r1 (mm)	Radius r2 (mm)	X (mm)	Y (mm)
8 M	6	3,4	2,6	0,76	0,09	0,79
14 M	10	6	4,5	1,35	0,15	1,47

Pitch length table (in mm)

Pitch : 8 MM

Standard length : 20 - 30 - 50 - 85

LENGTHS	
Ref. CC	Pitch length
480 8M	480
560 8M	560
600 8M	600
640 8M	640
720 8M	720
800 8M	800
880 8M	880
960 8M	960
1040 8M	1040
1120 8M	1120
1200 8M	1200
1280 8M	1280
1440 8M	1440
1600 8M	1600
1760 8M	1760
1800 8M	1800
2000 8M	2000
2400 8M	2400
2600 8M	2600
2800 8M	2800
4400 8M	4400

Pitch : 14 MM

Standard length : 40 - 55 - 85 - 115 - 170

LENGTHS	
Ref. CC	Pitch length
966 14M	966
1190 14M	1190
1400 14M	1400
1610 14M	1610
1778 14M	1778
1890 14M	1890
2100 14M	2100
2310 14M	2310
2450 14M	2450
2590 14M	2590
2800 14M	2800
3150 14M	3150
3360 14M	3360
3500 14M	3500
3850 14M	3850
4326 14M	4326
4578 14M	4578





Usefull

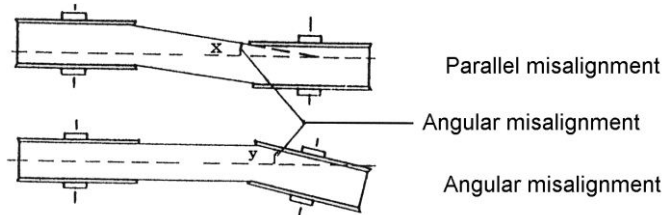
- The diameter of the pulleys must not be less than the width of the belt.
- The speed belt must not be more than 33 m/s. Otherwise, call us.
- If the centre distance is more than eight times the diameter of the small pulley, the both pulleys must be flanged.
- Protect the belt against chemicals products.
- The life time of the timing belt VECO HTB is minimum 4000 hours in a normal use.
- During the stocking, the belts must be protect from humidity, externe temperatures and direct sunlight.

Montage

• Alignment of pulleys :

- Parallelism

- Eccentricity



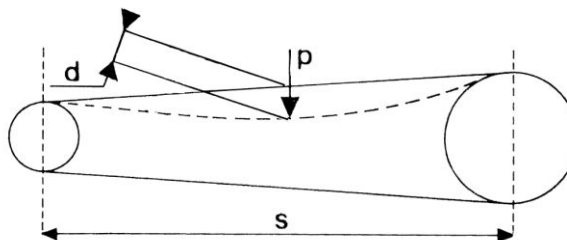
- Total angular misalignment = Angle x + Angle y, with a maximum de 0,25 °, or 4 mm per centre distance meter. The alignment of pulleys can be checked in setting a straight edge across faces of both pulleys.

• Tension of the belt:

- Check that the belt is well tightened in order to avoid that the belt jumps over the teeth.
- Never force the belt during the installation.
- A too high tension reduces the lifetime of the belt.
- To have a correct initial tension "p", see the following table.

s : centre distance in mm

d : 1/64 s



INSTALLATION TENSION "p" PER CORD (daN)

Pitch	WIDTH							
	20	30	40	50	55	85	115	170
8 M	0,9 à 1,8	1,4 à 2,7		3,2 à 5		5 à 8,6		
14 M			2,3 à 5		3,6 à 7,7	6,4 à 12,2	9,1 à 18,1	13,6 à 27,2





TIMING BELT VECO HTB 8M / 14M

FEATURES

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Fiche Technique - Technical Data Sheet



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CUVELIER^{RPS}**
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• Non adjusting center distances : Tensioning rollers are not recommended but you can use them if you follow these conditions :

- The roller will be set on the soft part
- If possible inside the belt (see figure 1)

- The diameter of the roller must be more than 1,33 times the diameter of the small pulley.
- It must be corrected if its diameter is smaller than the diameter of a pulley with 40 teeth.
- The arc of contact done by the belt must be as smallest as possible

Fig. 1



Fig. 2

