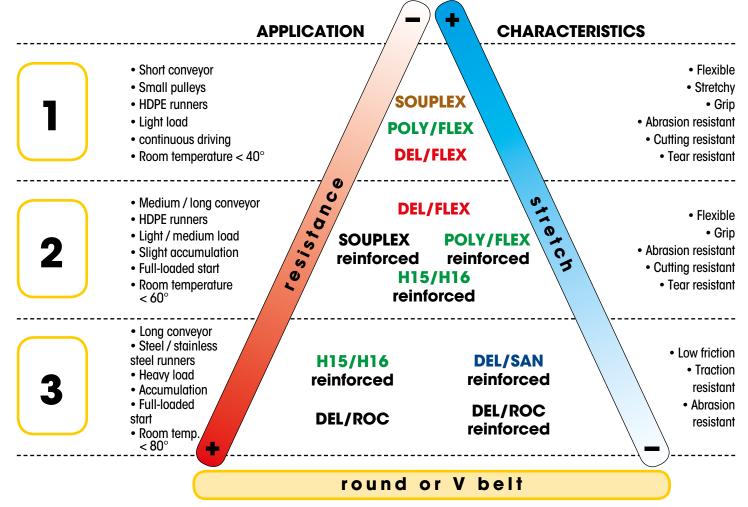
## To choose the right belt, you need to know the characteristics of the conveyor on which it will run, its working conditions and the product it will convey.

CONVEYOR	PRODUCT TRANSPORTED	WORKING CONDITIONS	
length of the conveyor	maximum transported weight	continuous or stop-and-go driving	
diameter of the pulleys	nature of the product	accumulation	
type of support	spreading of the weight along the conveyor	other efforts, pressure, etc. room temperature	
length of the tensioning system	temperature of the product		
number of belts			
inclination			

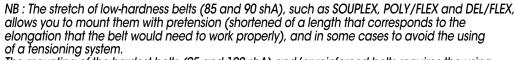
Choose up, amongst the 3 following categories, which one best matches to your application :



Into the selected category, choose the quality of belt whose general caracteristics, such as : **resistance, hardness, friction coefficient, stretch, operating temperature...** are the closest to the ones your are looking for.

Exemples :

- In case of accumulation of the products transported on the belt, choose the quality with the lowest friction coefficient.
- To convey heavy loads, choose the strongest and less stretchy quality.



The mounting of the hardest belts (95 and 100 shA) and/or reinforced belts requires the using of a tensioning system or tensioning tools (page 36).

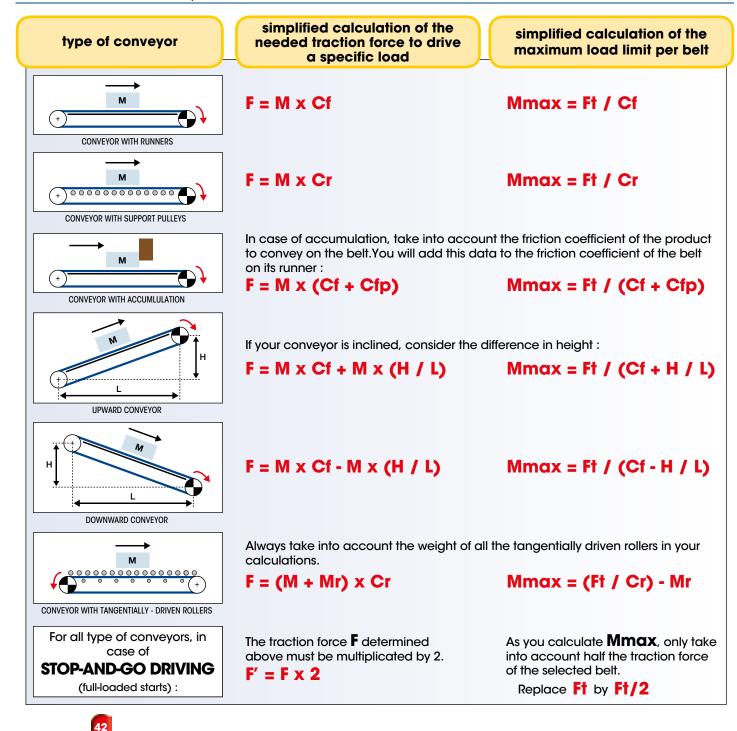


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## conveying / simplified calculations

DELT

SYMBOLE	MEASURES	DESIGNATION	BELI CHARACTERISTIC (in catalogue)
М	Kg	Transported load	
Mmax	Kg	Maximum load limit per belt	
Mtotal	Kg	Maximum load limit on all the belts	
Mr	Kg	Weight of all the tangentially driven rollers	
L	m	Conveyor length	
Н	m	Conveyor height	
F	daN	Minimum traction force for the continuous driving of the load ${f M}$	
F′	daN	Minimum traction force for full-loaded starts with the load ${f M}$	
Ft	daN	Traction force of the chosen belt	Х
t	%	Stretch corresponding to the traction force of the belt Ft	Х
Cfp		Friction coefficient on the transported product on the belt	
Cf		Friction coefficient of the belt on its runner	Х
Cr		Rolling coefficient of the belt on its support (0.05 to 0.1 according to the conditions: smooth support, bearings	)
Cs		Safety coefficient	

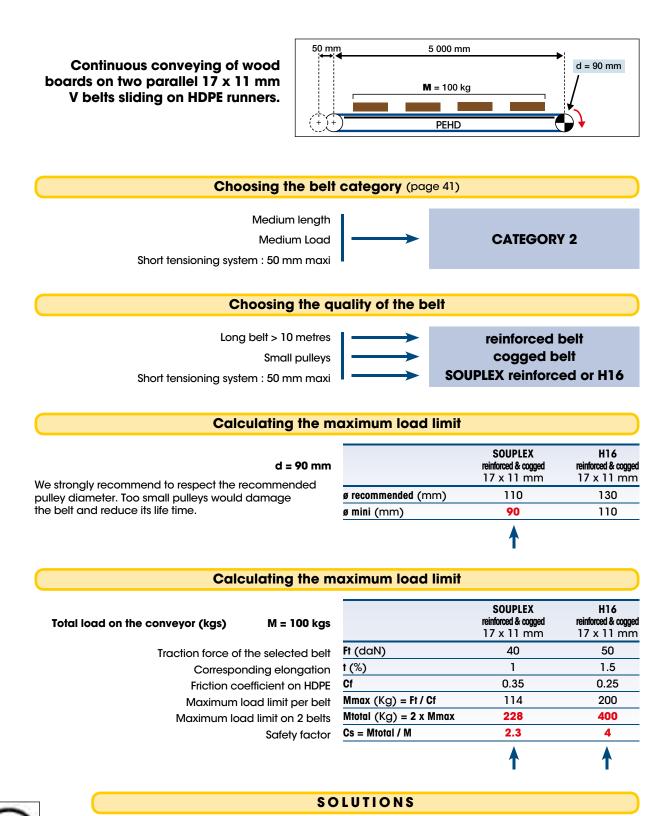




## **1/ EXISTING MACHINE**

CONSIDER THE CHARACTERISTICS OF THE CONVEYOR, OF THE TRANSPORTED PRODUCT, AS WELL AS THE GENERALWORKING CONDITIONS.

CHOOSING THE MOST ADEQUATE BELT.



Both selected belts could easily convey this load of 100 kg.Nevertheless, the H16 17 x 11 mmV belt requires much bigger pulleys than the 90 mm of the described conveyor. On the other hand, the reinforced and cogged 17 x 11 mm SOUPLEX can bend around pulleys down to 85 mm diameter. The most apropriate belt for this application is our **reinforced and cogged 17 x11mm SOUPLEX**, **mounted with 1% pretension**.

matdel



## 2/ PROTOTYPE

CHOOSING THE RIGHT BELT ACCORDING TO CONVEYOR DESIGNER'S SPECIFICATIONS. DESIGNING A CONVEYOR IN ACCORDANCEWITH THE CHARACTERISTICS OF A PARTICULAR BELT.

