

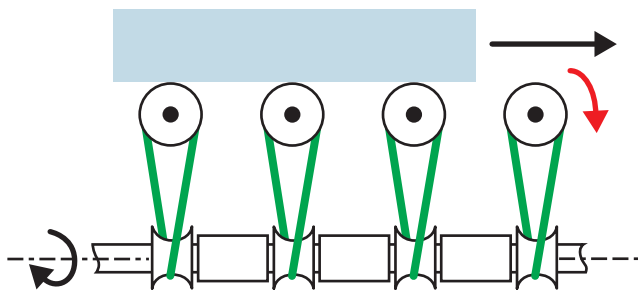
**Manufacturing on demand of small round endless belts in small, medium or large series, in qualities**

## SOUPLEX POLY/FLEX DEL/FLEX DEL/ROC

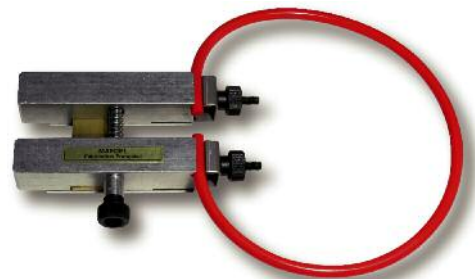
- Wide choice in length.
- Possibility to produce moulded belts for very large series (consult us for moulds quotation).



### rollers driven by semi-crossed round belts

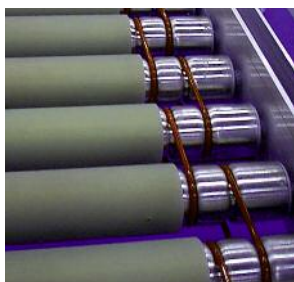


- Direct transmission from a perpendicular drive shaft to each roller with SOUPLEX, POLY/FLEX or DEL/FLEX round belts.
- Noiseless and maintenance-free system.

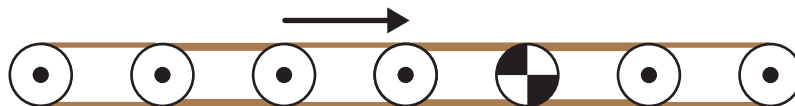


- Accumulation and full-load start possible, due to resistance of tensioned belts. Instant restart of rollers.
- Easy welding of belt on site with **J15 clamp**.
- We recommend to keep diabolos and rollers set in line.

### roller-to-roller driving

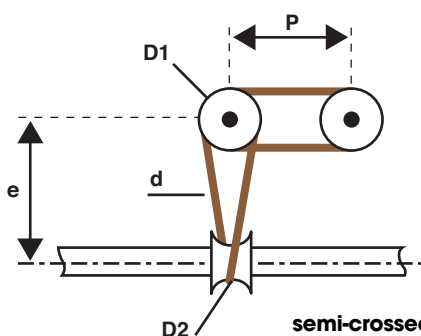


- Set of several rollers driven by round belts from a drive roller.



- It is recommended to drive a maximum of 6 rollers : 4 pulled and 2 pushed by the drive roller.
- Recommended minimum pretension : SOUPLEX or POLY/FLEX : 8%, DEL/FLEX : 6%.

### belt length calculation



**D1** : roller bottom groove diameter  
**D2** : diablo bottom groove diameter  
**d** : belt diameter  
**e** : center distance  
**p** : rollers step

**roller-to-roller driving**  
 $L_{th.} = (D1 + d) \times \pi + 2 \times p$   
 $L_{belt} = L_{th.} - \text{pretension}$

**semi-crossed belt driving**  
 $L_{th.} = [(D1 + d) + (D2 + d)] \times \pi / 2 + 2 \times \sqrt{[(D1+d)^2/4 + e^2]}$   
 $L_{belt} = L_{th.} - \text{pretension}$

EXAMPLE :  
**SOUPLEX round belt dia. 5 mm**

**D1** = 38 mm  
**D2** = 28 mm  
**d** = 5 mm  
**e** = 120 mm  
**p** = 100 mm

$L_{th.} = (38 + 5) \times 3.14 + 2 \times 100 = 335 \text{ mm}$   
 $L_{belt} = 335 - 8\% = 308 \text{ mm}$

$L_{th.} = [(38+5)+(28+5)] \times 3.14 / 2 + 2 \times \sqrt{[(38+5)^2 / 4 + 120^2]} = 363 \text{ mm}$   
 $L_{belt} = 363 - 8\% = 334 \text{ mm}$