The quickmelt joining system of Polycord round belts

Thanks to handy Habasit joining tools the customer can join Polycord round belts himself. This also avoids time-consuming dismantling jobs. Many leading firms throughout the world are putting the advantages of the service on the premises



Cutting \triangleright If take-up x is available and sufficient for the required take-up x_{ϵ} , measure and cut off belt length I_1 of for example 2500 mm, determined by a string in the pulley grooves at the shortest center distance. $\triangleright\triangleright$ If no take-up x is available, proceed as above, but deduct initial tension ϵ = 8% (for example 200 mm in case of a belt length of 2500 mm) and measure net belt length I_3 of

and measure net belt length I3 of 2300 mm.





Joining
See operating instruction of the respective joining device for exact procedure.

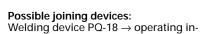
The joining of Polycord round belts is very simple (illustration: welding device PQ-18):

Clamp belt ends into welding

device ...

>> allow them to melt against the heating blade (do not inhale vapors, join only in well ventilated areas), and ...

the joint cool off. D Trim swelling with pliers, file or grinding wheel.



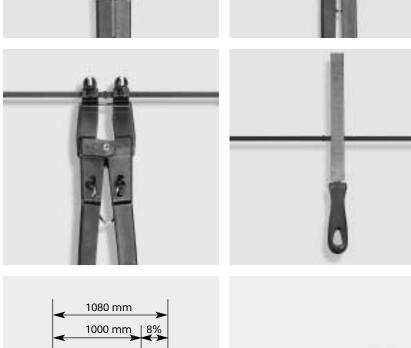
structions 36009 Semi-automatic welding device PQ-16

→ operating instructions 3602

Installing ▷ If take-up x is available and sufficient for the required take-up x_{ϵ} , trace two measuring marks, distant of 1000 mm (or 500 mm) on belt. Tension it by the generally applicable initial tensioning value ϵ = 8% by increasing the center distance. The distance between the two measuring marks should now be 1080 mm (or 540 mm).

▷▷ If no take-up x is available, install

⊳⊳ If no take-up x is available, install the belt first on the small, then "force" it on the larger pulley by carefully turning the drive by hand.



Antriebs-, Transportelemente Eléments de transmission, de transport Power transmission, conveyor belts Elementos de transmisión, de transporte Elementi di trasmissione, di trasporto Elementos de transmissão, de trasporte Aandrijf-, transportelementen Transmissions-, transportelement Voimansiirto-, kuljetuselementit Kraftoverførings-, transportelementer 動力の伝達及びコンベヤーの原理

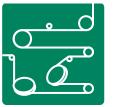
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Engineering manual

Edition: September 2001 Replaces edition: December 1993

Polycord round belts







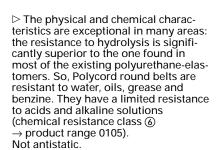


Ideal properties, universal application of Polycord round belts

> Thanks to their high flexibility, Polycord round belts are directionally adjustable at will.

adjustable at will.

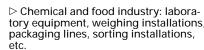
▷▷ As a result of their high elasticity,
Polycord round belts act as security elements by reducing shocks and overloads F to F_R through an extension of
the shock and overload time t. Expensive intermediary elements are
superfluous.



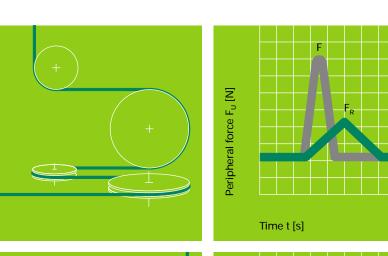
D Thanks to their close cross section tolerances, Polycord round belts guarantee uniform transmission of the number of revolutions.

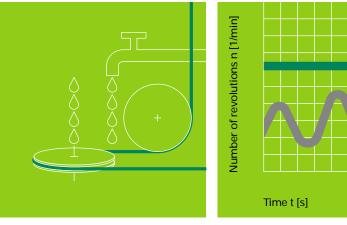
 Mechanical/apparatus engineering, metal working industry, precision machinery, watch-making industry: drills, oil pumps, pantographs, ancillary units for automatic lathes, etc.
 Textile and clothing industry: bale openers, cards, automatic bobbin winders, sewing machines, spinning frames, cotton wool manufacturing ma-

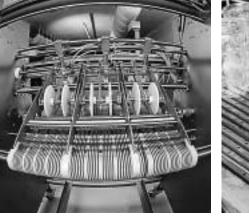
chines, etc.



DD Various industries, public services, service sector: business and copying machines, transport of cardboard, veneers, tiles, drying installations, weighing installations, packaging lines, printing machines, automatic bowling alleys, etc.







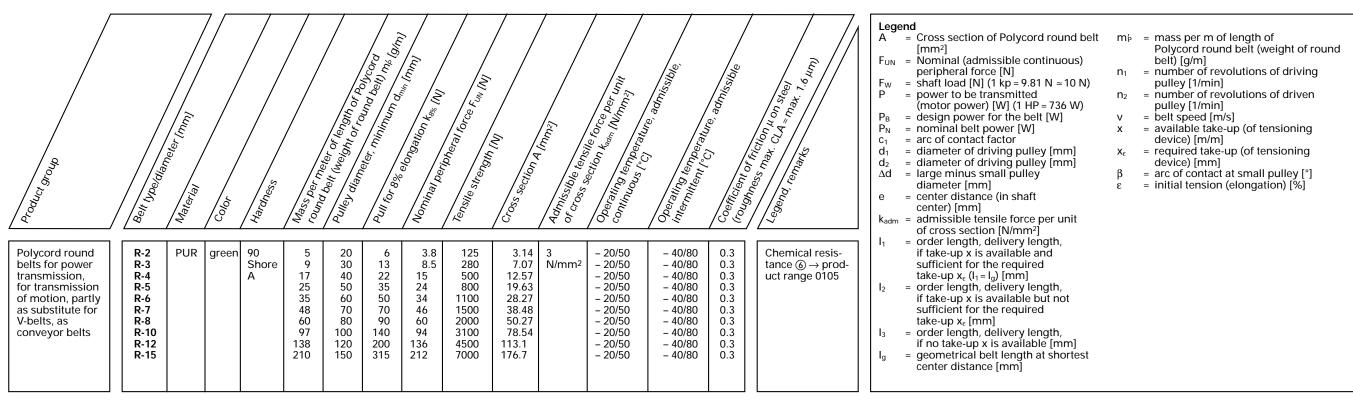




Product range, technical data, determination of the ideal Polycord round belt

All indications are approximate values under standard climatical conditions 23 °C 50% relative humidity (DIN 50005/ISO 554).

Legend, examples



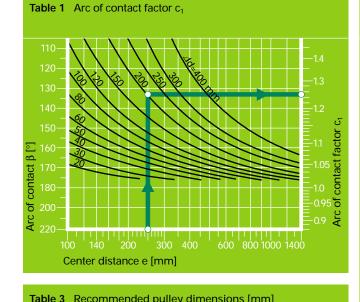


Table 3 Recommended pulley dimensions [mm] (Other pulley forms also adequate. For conveying installations reduce groove depth t appropriately.)

	-										
Belt type		2	3	4	5	6	7	8	10	12	15
	а	4.5	5.5	7	8	10	11	12	15	18	23
8 R2 R2	b	6.5	8	10	12	14	15	16	19	22	27
	t	2.5	3	3.5	4	5	5.5	6	7.5	9	12
	R ₁	1.3	1.8	2.5	3	3.5	4	4.5	5.5	6.5	8
b d	R_2	1	1.2	1.5	2	2	2	2	2	2	2
	R ₃	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

