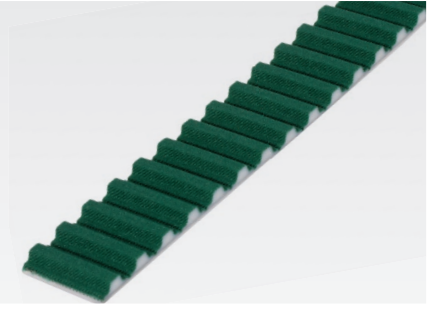
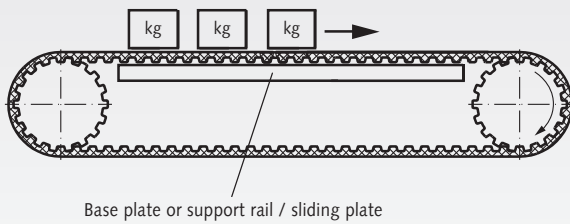


Open-Length Timing Belts from Polyurethane (TPU), weldable, PAZ = Polyamide Fabric on tooth side

Application example: transportation belt (endless welded)



Material: Thermoplastic polyurethane (TPU), with steel tensile member. With green polyamide fabric on the tooth side.

Ordering Details: e.g.: 162 600 01, Open-Length Timing Belt PAZ T 5, Width 10 mm.

TPU PAZ belts can be welded (tensile force -50%).

T Open-Length Timing Belts PAZ

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force ¹⁾ N	Weight g/m	Matching Clamping Plate ²⁾ Product No.
162 600 01	T 5	10	100	330	25	162 699 00
162 700 01	T 5	16	100	528	40	162 799 00
162 800 01	T 5	25	100	825	63	162 899 00
162 870 01	T 5	32	100	1056	80	162 898 00
162 880 01	T 5	50	100	1650	126	162 899 01
164 600 01	T 10	16	100	1248	77	164 699 00
164 700 01	T 10	25	100	1950	120	164 799 00
164 800 01	T 10	32	100	2495	154	164 899 00
164 855 01	T 10	40	100	3120	192	164 899 01
164 860 01	T 10	50	100	3900	240	164 999 00
164 900 01	T 10	100	100	7800	480	164 999 01

AT Open-Length Timing Belts PAZ

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force ¹⁾ N	Weight g/m	Matching Clamp Plate ²⁾ Product No.
166 600 01	AT 5	10	100	700	34	166 699 00
166 700 01	AT 5	16	100	1120	55	166 799 00
166 800 01	AT 5	25	100	1750	85	166 899 00
166 870 01	AT 5	32	100	2240	110	166 898 00
166 880 01	AT 5	50	100	3500	170	166 899 01
168 600 01	AT 10	16	100	2080	101	168 699 00
168 700 01	AT 10	25	100	3250	158	168 799 00
168 800 01	AT 10	32	100	4160	202	168 899 00
168 840 01	AT 10	40	100	5200	253	168 899 01
168 860 01	AT 10	50	100	6500	316	168 999 00
168 900 01	AT 10	100	100	13000	632	168 999 01

HTD Open-Length Timing Belts PAZ

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force ¹⁾ N	Weight g/m	Matching Clamping Plate ²⁾ Product No.
173 661 01	5 M	10 ³⁾	100	780	48	173 199 00
173 663 01	5 M	15	100	1268	72	173 399 00
173 665 01	5 M	25	100	2145	120	173 599 00
173 667 01	5 M	50	100	4290	240	-
175 661 01	8 M	20	100	2640	140	175 199 00
175 663 01	8 M	30	100	3960	210	175 399 00
175 664 01	8 M	40	100	5280	280	-
175 665 01	8 M	50	100	7480	350	175 599 00
175 668 01	8 M	100	100	14960	700	-
177 661 01	14 M	40	100	9000	454	177 661 99
177 663 01	14 M	55	100	12800	625	177 663 99
177 665 01	14 M	85	100	21600	964	177 665 99

¹⁾ Permissible force at open length. When welded, the force is reduced to 50%.

²⁾ Clamping plates page 171.

³⁾ Fits on pulleys for belt width 9 mm.

**Other types PAR (fabric on backside)
or PAZ/PAR (fabric on both sides)
and profiles T20 or AT20 on request
in the short term.**

Features of Polyamide Fabric

The polyamide fabric reduces the friction on aluminium or steel plates to approx. 50%. On plastic sliding plates, the friction reduction is approx. 30%. So, depending on the application, the needed driving power is much lower. By the fabric, the wear resistance of the belt is much higher and the noise is lower. Application: for example supported transportation belt drives.

Friction coefficients:

Polyamide fabric / steel: $\mu = 0.30-0.40$

Polyamide fabric / aluminium: $\mu = 0.30-0.45$

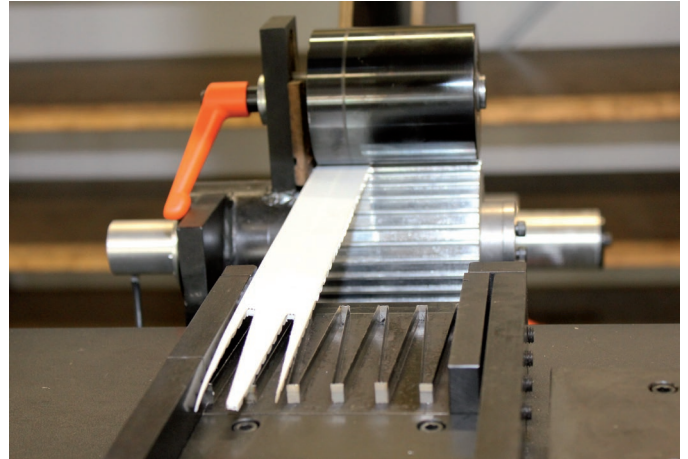
Polyamide fabric / plastic: $\mu = 0.18-0.35$.

Timing belts with polyamide fabric can be welded (tensile force -50%).

Timing Belts - Welding and Customized Products

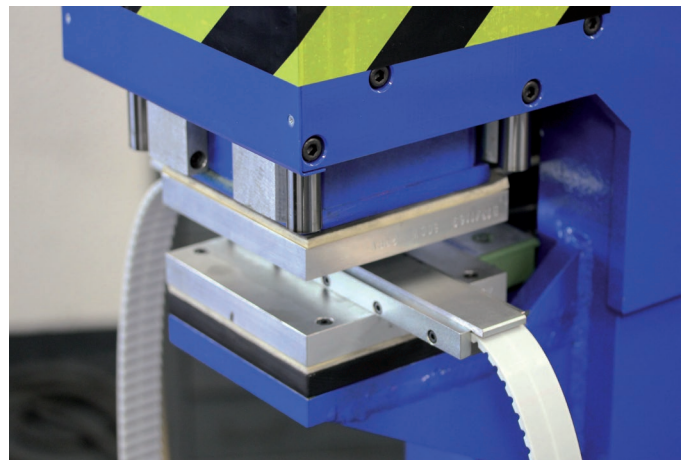
Timing Belts in Special Lengths:

- Open length belts from thermoplastic polyurethane (TPU) can get welded to endless belts of any number of teeth, beginning from pitch 2.5mm and width 6mm. Minimum length 420mm, depending on the belt profile and width.
- The welding is done directly in the timing belt stock of **MÄDLER®**. Normally, the welded belts should be sent to the customer within 24 hours after receiving the order.
- From one-off pieces to large series at very short notice.




Cutting and Welding of Timing Belts:

- The ends get punched into the shape of fingers.
- The welding is done at high temperature. By this, the plastic melts and leads to a homogenous structure.
- After cooling down, the belt is ready to use and can be shipped immediately.
- The tensile members don't get welded. So the tensile strength of a welded belt is approximate 50% of the open length belt.
- Alternatively, belts in special lengths also can get endless extruded. Minimum lengths and minimum order quantities have to be considered. Price and delivery time on request.



Price Calculator on the Internet:

- At www.maedler.de in the section Timing Belts and Pulleys, in the subsection Welding of Timing Belts.
- Quick overview about the stock range of profiles, widths and minimum lengths of weldable belts.
- After having selected a belt, you see the part number, product text and the prices for several quantities.



Preisberechnungstool für verschweißte PU-Zahnriemen

Profil:

Länge: Zähnezahl: 3750 mm
 oder
 mm:

Artikelnummer:

Artikeltext:

Stückpreis: 1 - 4 Stück:	61,22 €
5 - 9 Stück:	51,01 €
ab 10 Stück:	40,81 €

Other Special Belts (on request):

- Timing belts with teeth in V-formation.
- Self-tracking timing belts with central guide.
- Conveyor belts with texture or welded cams on the backside.
- Round belts and flat belts.
- V-belts and timing belts with tissue layer.
- Timing belts PAZ-PAR with polyamide fabric on the tooth side and also on the back side.

