

## Section 2 - Synchronous Belts - Rubber Belts

DIN 7721 - ISO 13050 / IP27 RMA-MPTA

### Double-Sided

#### Structure details:

##### Tensile cord

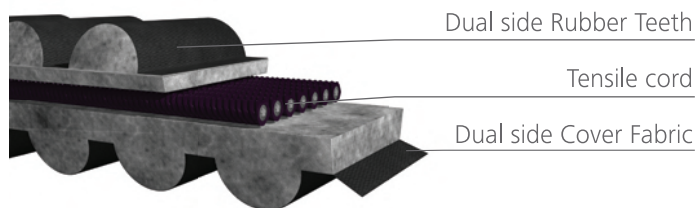
Our strong glass fiber both S and Z orientated will ensure perfect belt tracking, keep dimensional stability and flexibility with no elongation.

##### Rubber Teeth

From both sides, transmit equal power thanks to our perfect combination of best chloroprene and fibre grade materials, our rubber teeth compound offers tooth pitch matching and high wear as well as vibration resistance.

##### Cover Fabric

On both sides of teeth our special polyamide fabric will feature minimal friction, our cover fabric will allow perfect positive engagement with pulleys while ensuring great wear and abrasion resistance.



STEIGENTECH 1036 D14M 85 Date code NE PAS PLIER DO NOT CRIMP NICHT KNICKEN NON PEAGRE

#### Application:

Our Double-Sided Curvilinear Timing belts will allow serpentine drive design where the back of the belt is driving pulleys either way placed on the outside or inside. Those belts are well suited for contra-rotating drives thanks to their double symmetrical or overlapping opposite teeth. Such drive can allow high load-carrying power and smooth running operation.

#### Properties:

Our Double-Sided Curvilinear Timing Belts are leveraging the properties and features from the single sided version. We can produce our double-sided timing belts in 2 arrangements: symmetrical or overlapping, please consult us. Temperature range from -30°C up to +80°C. Moderate resistance to common oils, good resistance to heat and cold environment. Low noise, high speed ratio, high belt speed. Meets RoHS and REACH requirements.

#### Section Dimensions:

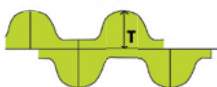
Our Double-Sided Curvilinear Tooth Timing Belts have been designed to match the highest European design requirements.

Symmetrical

DA- H-type tooth profile:

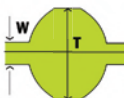


Overlapping  
DB- H-type tooth profile:

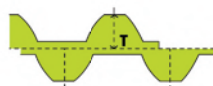


Symmetrical

DA- S-type tooth profile:



Overlapping  
DB- S-type tooth profile:



ISO 13050	D3M	D5M	D8M	D14M
Pitch (mm)	3.0	5.0	8.0	14.0
Double Tooth Height (mm)	3.10	5.26	8.17	14.84
Tooth Width (mm)	1.78	3.05	5.15	9.40
Belt Thickness between teeth (mm)	0.76	1.14	1.37	2.80
Belt Weight per meter per 10mm width (Kg/m)	0.06	0.08	0.120	0.210
Teeth range (min-max)	134 - 1670	110 - 852	69 - 565	74 - 327
Pitch length (mm)	402 - 3000	550 - 4260	552 - 4520	1036 - 4578

ISO 13050	DS5M	DS8M	DS14M
Pitch (mm)	5.0	8.0	14.0
Double Tooth Height (mm)	4.25	7.48	12.36
Tooth Width (mm)	3.25	5.20	9.10
Belt Thickness between teeth (mm)	0.96	1.37	2.80
Belt Weight per meter per 10mm width (Kg/m)	0.100	0.120	0.230
Teeth range (min-max)	110 - 560	64 - 500	72 - 322
Pitch length (mm)	550 - 2800	560 - 4000	1008 - 4508

#### Product Codification:

ISO 13050 designation: 1036 - D14M - 85  
Possible sections : D3M, D5M, D8M, D14M Pitch length (mm) Double-sided Pitch (14 mm) H-type tooth profile Belt width (mm)

ISO 13050 designation: 850 - DS5M - 25  
Possible sections : DS5M, DS8M, DS14M Pitch length (mm) Double-sided Pitch ( 5mm) S-type tooth profile Belt width (mm)

If no mention of the double-sided arrangements is done (symmetrical or overlapping), it will be considered as symmetrical arrangement by default (D- = DA-)