

ELATECH MO12E5A12 Nade in Italy

A unique concept in synchronous polyurethane belts

Eagle belts answer the market need for a synchronous drive product providing noise reduction, reduced vibration, reduced maintenance, energy efficiency, increased horsepower and reduced drive width. Its concept of HOT (Helical Offset Tooth) design and a continuous rolling tooth engagement, allows it to run quieter than any other synchronous belt. Eagle belts provide a solution to current belt applications where noise, an inherent characteristic of straight tooth synchronous belting, must be limited.

Main features

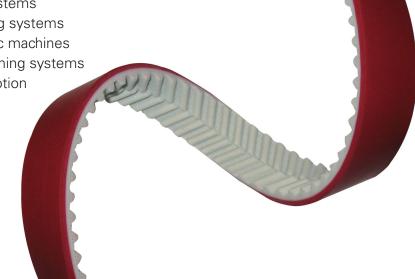
- Reduces noise up to 19 db compared to straight tooth timing belts
- Less vibration improving machine performance
- Self tracking
- Eliminates flanges on pulley reducing face width, weight and inertia
- Helical Offset Tooth profile (HOT) designed for minimal tooth interference, ideal for applications requiring precise movement.
- **Bi-Directional** for reciprocating drives
- No slippage

Eagle polyurethane belts are energy efficient

- Reducing energy losses and energy consumption
- Complementing the high efficiency ratings of today's motors
- Offsetting the escalating cost of energy
- Long term saving, reducing operating expenses

Applications

- Lifting systems
- Conveying systems
- Automatic machines
- Door opening systems
- Linear motion



Open end EAGLE 5M - 8M - 10M





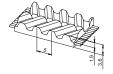
Belt characteristics

- Polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- Self tracking no need of pulley flanges
- Metric pitch 5 mm, 8 mm and 10 mm
- Extremely reduced noise generation
- Offers excellent operational reliability in linear positioning and medium power transmission applications
- The special profile allows most compact drive
- PAZ fabric as standard

[*] Elatech® V Joined informations

Allowable tensile load of joined belts is 50% of M - Open End

EAGLE 5M



Belt width b [mm]		12,5	25
Allowable tensile load	F _{Tzul} [N]*	1150	2530
Breaking load	F _{Br} [N]	4200	9240
Specific spring rate	C _{spez} [N]	287500	632500
Weight	[kg/m]	0,06	0,12

Black color as standard

Width tolerance: ± 0.5 [mm]
Length tolerance: ± 0.5 [mm/m]
Thickness tolerance: ± 0.2 [mm]

EAGLE 8M



Belt width b [mm]		16	25	32	50
Allowable tensile load	F _{Tzul} [N]	2450	4170	5390	8580
Breaking load	F _{Br} [N]	9500	16150	20900	33250
Specific spring rate	C _{spez} [N]	612500	1042500	1347500	2145000
Weight	[kg/m]	0,085	0,145	0,180	0,300

Width tolerance: ±0,8 [mm]
 Length tolerance: ±0,8 [mm/m]
 Thickness tolerance: ±0,3 [mm]

EAGLE 8M HPL



Belt width b [mm]		16	25	32	50
Allowable tensile load	F _{Tzul} [N]*	3840	6720	8640	14400
Breaking load	F _{Br} [N]	14000	24500	31500	52500
Specific spring rate	C _{spez} [N]	960000	1680000	2160000	3600000
Weight	[kg/m]	0,110	0,170	0,220	0,350

Width tolerance: ±0,8 [mm]
 Length tolerance: ±0,8 [mm/m]
 Thickness tolerance: ±0,3 [mm]

EAGLE 10M



Belt width b [mm]		25	32	50	75	100
Allowable tensile load	F _{Tzul} [N]*	6720	8640	14400	21120	28800
Breaking load	F _{Br} [N]	24500	31500	52500	77000	105000
Specific spring rate	C _{spez} [N]	1680000	2160000	3600000	5280000	7200000
Weight	[kg/m]	0,18	0,23	0,37	0,54	0,74

Width tolerance: ±0,8 [mm]
 Length tolerance: ±0,8 [mm/m]
 Thickness tolerance: ±0,3 [mm]

Open end EAGLE 14M





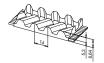
Belt characteristics

- Polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- Self tracking no need of pulley flanges
- Metric pitch 14 mm
- Extremely reduced noise generation
- Offers excellent operational reliability in linear positioning and medium power transmission applications
- The special profile allows most compact drive
- PAZ fabric as standard

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Allowable tensile load of joined belts is 50% of M - Open End

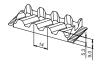
EAGLE 14M



Belt width b [mm]		35	52,5	70	105
Allowable tensile load	F _{Tzul} [N]*	11900	17000	23800	35700
Breaking load	F _{Br} [N]	44800	64000	89600	134400
Specific spring rate	C _{spez} [N]	2975000	4250000	5950000	8925000
Weight	[kg/m]	0,400	0,600	0,800	1,200

Width tolerance: ±1,2 [mm]
 Length tolerance: ±0,8 [mm/m]
 Thickness tolerance: ±0,4 [mm]

EAGLE 14M HPF



Belt width b [mm]		35	52,5	70	105
Allowable tensile load	F _{Tzul} [N]	14000	20000	28000	42000
Breaking load	F _{Br} [N]	56000	80000	112000	168000
Specific spring rate	C _{spez} [N]	3500000	5000000	7000000	10500000
Weight	[kg/m]	0,450	0,670	0,900	1,350

Width tolerance: ±1,2 [mm]
 Length tolerance: ±0,8[mm/m]
 Thickness tolerance: ±0,4 [mm]

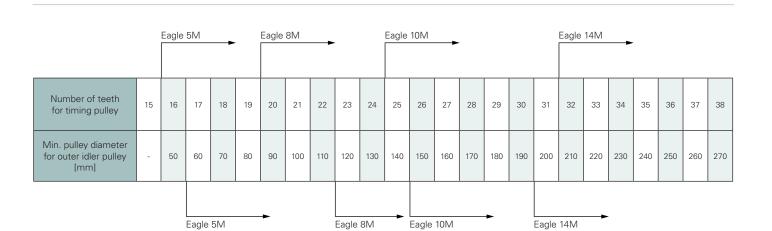
EAGLE 14M XHPL



Belt width b [mm]		35	52,5	
Allowable tensile load	F _{Tzul} [N]	16000	28000	
Breaking load	F _{Br} [N]	56000	98000	
Specific spring rate	C _{spez} [N]	4000000	7000000	
Weight	[kg/m]	0,50	0,70	

Width tolerance: ±1,2 [mm]
 Length tolerance: ±1,0 [mm/m]
 Thickness tolerance: ±0,5 [mm]

Special pulley profile required. Contact Elatech® technical dept. for details.



ELA-flex SD® 5M - 8M - 10M - 14M





- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- Self tracking no need of pulley flanges
- Metric pitch 5 mm, 8 mm, 10 mm and 14 mm
- Extremely reduced noise generation
- The special profile allows most compact drive
- PAZ fabric as standard



EAGLE 5M

Belt width [mm]	12,5	25
Allowable tensile load [N]	1380	2760
Weight [kg/m]	0,06	0,12

Width tolerance: ±0,8 [mm]
 Thickness tolerance: ±0,2 [mm]

EAGLE 8M



Belt width [mm]	16	25	32	50
Allowable tensile load [N]	2695	4165	5390	8330
Weight [kg/m]	0,085	0,145	0,180	0,300

Width tolerance: ±0,8 [mm]
 Thickness tolerance: ±0,3[mm]





Belt width [mm]	25	32	50
Allowable tensile load [N]	5810	7920	12140
Weight [kg/m]	0,18	0,23	0,37

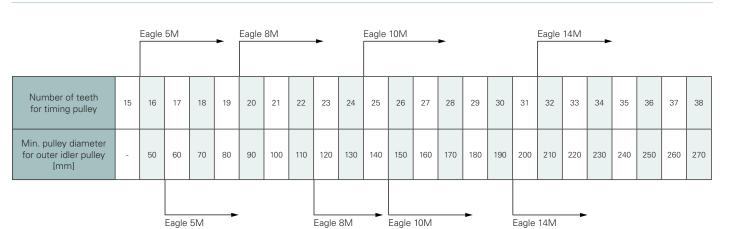
Width tolerance: ±0,8 [mm]
 Thickness tolerance: ±0,3 [mm]

EAGLE 14M



Belt width [mm]	35	52,5	70	105
Allowable tensile load [N]	13090	18700	26180	39270
Weight [kg/m]	0,40	0,60	0,80	1,20

Width tolerance: ±1,2 [mm]
 Thickness tolerance: ±0,4 [mm]



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