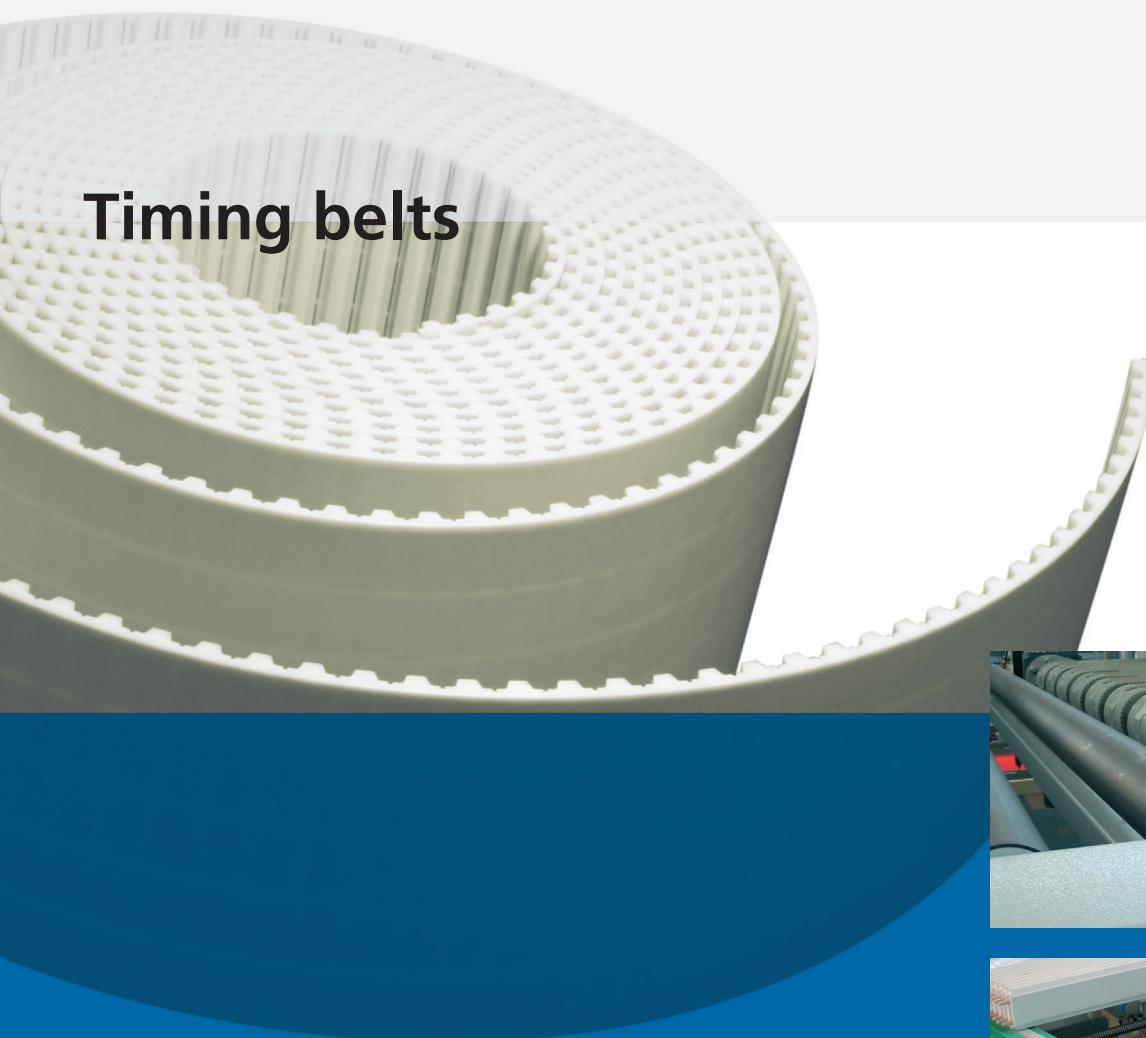


# Timing belts



Precise solution for synchronised  
conveying, positioning and power  
transmission

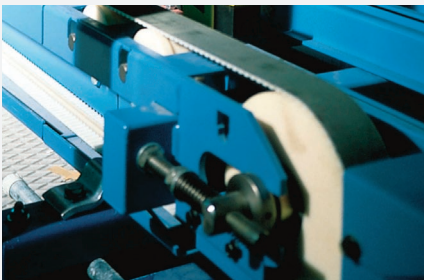
# Applications

Logistics and material handling increasingly rely on the advantages that *Ammeraal Beltech* timing belts offer.

From transferring power to lifting your product, timing belts are your guarantee, that everything is where it needs to be, when it needs to be there.

Pollutants from the working environment can greatly effect traditional rubber timing belts; fats, acids, ozone and other chemicals can cause lost production and costly maintenance time.

*Ammeraal Beltech* PU timing belts are highly resistant to these damaging influences.

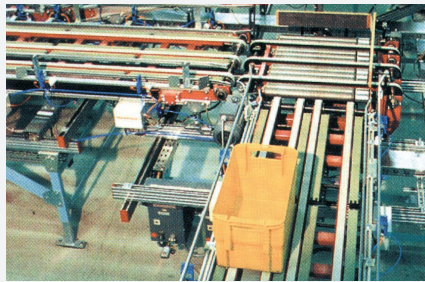


Food and tobacco applications have for a long time benefited from the unparalleled advantages of *Ammeraal Beltech* PU timing belts. Their durability offer a flexible solution to demanding production situations.

Noise pollution is an increasing danger in all production environments. Noisy chains and gearing add to this problem. Timing belts reduce these noise levels, contributing to a safer and more comfortable working environment.

Many industrial applications require the exact positioning of products in relation to other operations in the production process. Specially profiled welded flights can accommodate awkwardly shaped products.

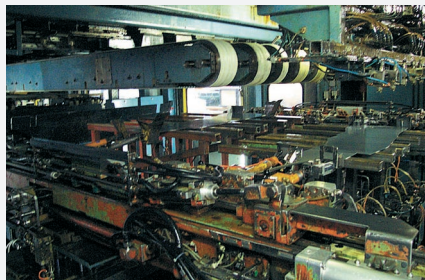
Many types of customized profiles and cleats are available, locating and holding your product as required. Your local *Ammeraal Beltech* distribution point can make the necessary recommendations for these products.



Efficient transfer of power from source to destination, has always been a technical challenge.

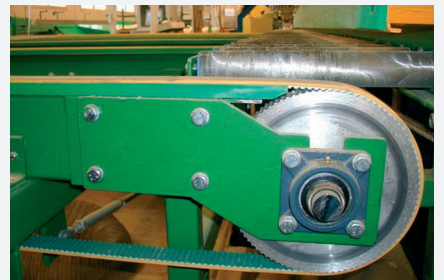
*Ammeraal Beltech* timing belts offer all the advantages that are needed to achieve this.

Our belts offer positive drive, high torque, dynamic flexibility and a superb resistance to adverse environmental conditions.



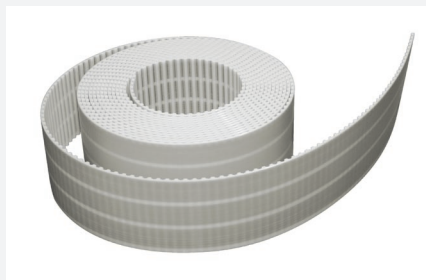
*Ammeraal Beltech* timing belts for a wide range of industrial applications and environments:

- Airport baggage handling systems
- Logistics industry
- Food industry
- Print & Paper industry
- Packaging industry
- Wood industry
- Ceramic industry
- Automotive industry
- Tobacco industry
- Chemical industry
- Electronics assembly lines
- Power transmission



# A comprehensive range for many industries

## PU Linear



- 90 types in range
- Open end rolls or endless jointed
- Standard roll length 100 m
- Min. jointed length 500 m
- Material: thermoplastic PU with steel or aramid cords
- Accessories: Vee-guides, cleats, covers

A versatile belt for automation and material handling equipment, mainly for linear and conveying purposes.

### Typical applications

- Open length belts:
  - › Automation and material handling equipment, horizontal and vertical doors, printing applications, automatic assembly operations, automatic storage and retrieval systems, fabric cutting machines, woodworking machines, glass cutting, scanner movement, robotics.
- Endless jointed belts:
  - › Sheet metal and sheet glass transport systems, food conveying, print and paper applications, conveying applications for wood and related industry; in general for synchronised conveying and positioning, assembly, packaging, inserting and other automation equipment applications.

## PU Torque



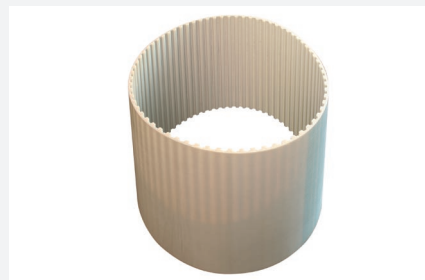
- 38 types in range
- truly endless, no joint
- Length: 1.5 m – 24.0 m  
all length available according to tooth pitch
- Material: thermoplastic PU with steel cords (spirally wound)
- Accessories: Vee-guides, cleats, covers

A belt for high tension conveying, positioning and power transmission applications

### Typical applications

- High tension conveying and positioning applications giving longer life compared to spliced or welded belts.
- General industry drive belts for use in wood, printing, paper converting and textile industries.

## PU Moulded



- 11 types and 360 different lengths in range
- truly endless, no joint
- Standard length (min. 112 mm, max. 2250 mm)
- Material: thermoset PU with steel cords (spirally wound)
- Accessories: wide range of covers

A belt which can be used in many sectors of industry, from very light operations to high-performance applications as a drive, conveying and positioning belt.

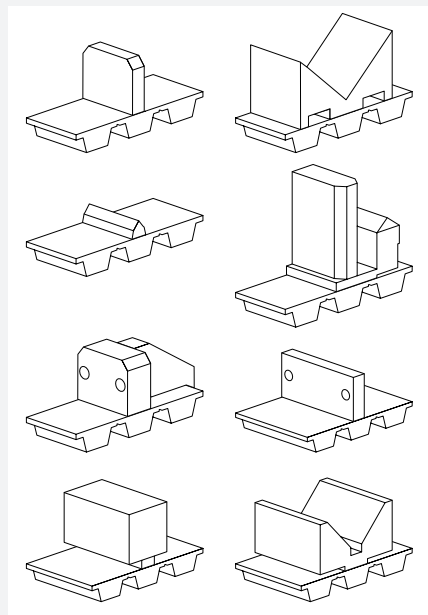
### Typical applications

- Moulded timing belts can be used in many sectors of industry, from very light miniature drives to high-performance applications.
- They are ideal for high speed and high torque drive belts. They are also suitable for short conveying and positioning applications.

# Fabrication & Specials

## Cleats

- Timing belts can be customised with welded-on profile/cleats made from the same urethane as the body of the belt
- Custom made injection moulded simple upright cleats available
- Welding
  - › High frequency (HF) welding
  - › Friction welding
  - › Contact heated tool welding



## Covers

- More than 60 types of cover materials:
  - › Soft – hard ; foam – solid
  - › Low grip – high grip
  - › Thin – thick
- Truly endless covers or with seam
- Special methods to bond covers on to timing belts
- Special machined slots or holes



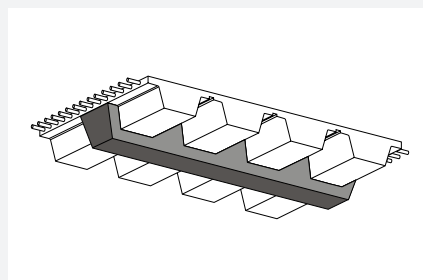
## Joining

- Welded joint
  - › Only with open-end PU Linear types
  - › Finger joint, tapered fingers
  - › No glues or adhesives
  - › Strength: 50 % of the max. allowable belt strength
- Fasteners
  - › Only for special and urgent purposes
  - › Special plastic belt fastener
  - › quick installation on site
- Joining tools
  - › Special finger punching machine
  - › Welding moulds per type
  - › Heating press
  - › Control unit
  - › Water cooling unit
  - › Joining on site also possible

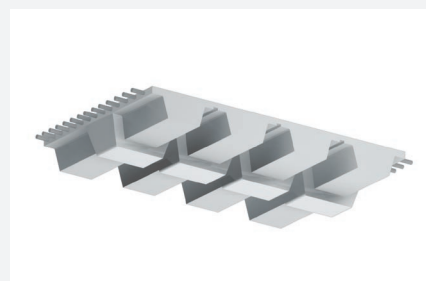


## Vee-guides

- Fabricated Vee-guides
  - › For PU Linear and PU Torque
  - › Can be welded to any belt type in any width, length combination
  - › In addition can be added on to the back side of the belt
  - › Special dimensions, hardnesses and colours available
  - › Special notched types available for extra flexibility

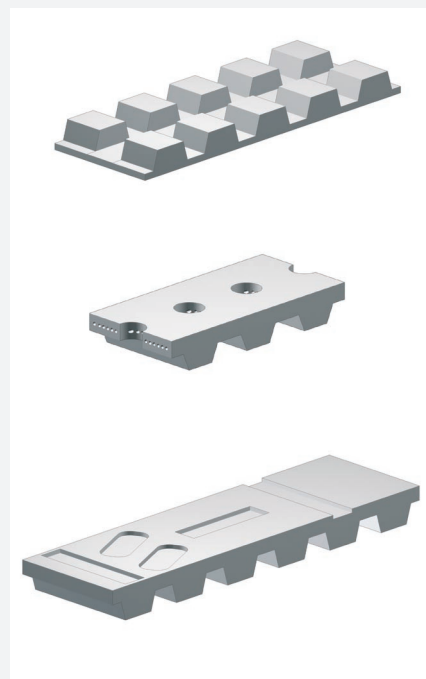


- Integral Vee-guides
  - › Integral, notched Vee-guides are integrally moulded to specific belt types
  - › Only for PU Linear
  - › PU compound, hardness and colour are the same as the body of the belt
  - › Standard belt widths



## Tooling

- Grooves for Vee-guides and vacuum
- Holes: by water jet cutting, punching or drilling
- Grinding and slitting
- Cross slots and slits
- Machinery according to drawings

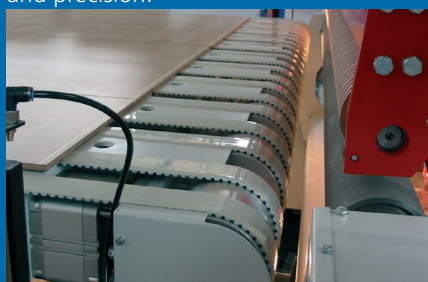




# Precise solution for synchronised conveying, positioning and power transmission

*Ammeraal Beltech* timing belts offer standard solutions for all types of conveying and power transmission requirements.

Different pitches, tooth shapes, dimensions, cord and coating materials to suit different applications. Special treatments for the belt surface such as grinding, milling or the attachment of cleats are all available options. Outstanding mechanical and chemical properties lead to high-performance operation and precision.



The following features are available:

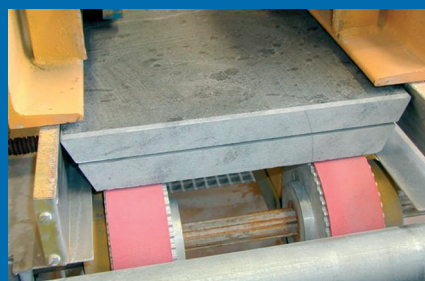
- 3 product segments of timing belts
  - › Linear
  - › Torque
  - › Moulded
- Several pitches
  - › Metric pitch: T, DT, AT, ATL, HTD, STD, TK, ATK, Eagle, flat belts F1, F2 and F4
  - › Inch pitch: MXL, XL, L, H, XH
- Different cords
  - › steel
  - › high performance steel
  - › high flexibility steel
  - › stainless steel
  - › aramid
- special surface finishings
  - › nylon fabric on tooth side
  - › nylon fabric on back side
  - › antistatic surface
- More than 60 coverings
- Customized specials
  - › Cleats
  - › Vee-guides
  - › Perforations
  - › Vacuum grooves

*Ammeraal Beltech* timing belts provide total solutions:

- Extensive standard range
- Local technical support
- Worldwide manufacturing facilities
- Innovative solutions
- Low maintenance
- Customization possible
- Commercial security

*Ammeraal Beltech* PU (polyurethane) timing belts provide excellent properties:

- Oil, fat and chemical resistance
- Flexible and stable at high speeds and torques
- Food-quality standard
- Antistatic
- Abrasion and ozone resistance
- Low noise
- Optional surface finishes
- Low maintenance



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