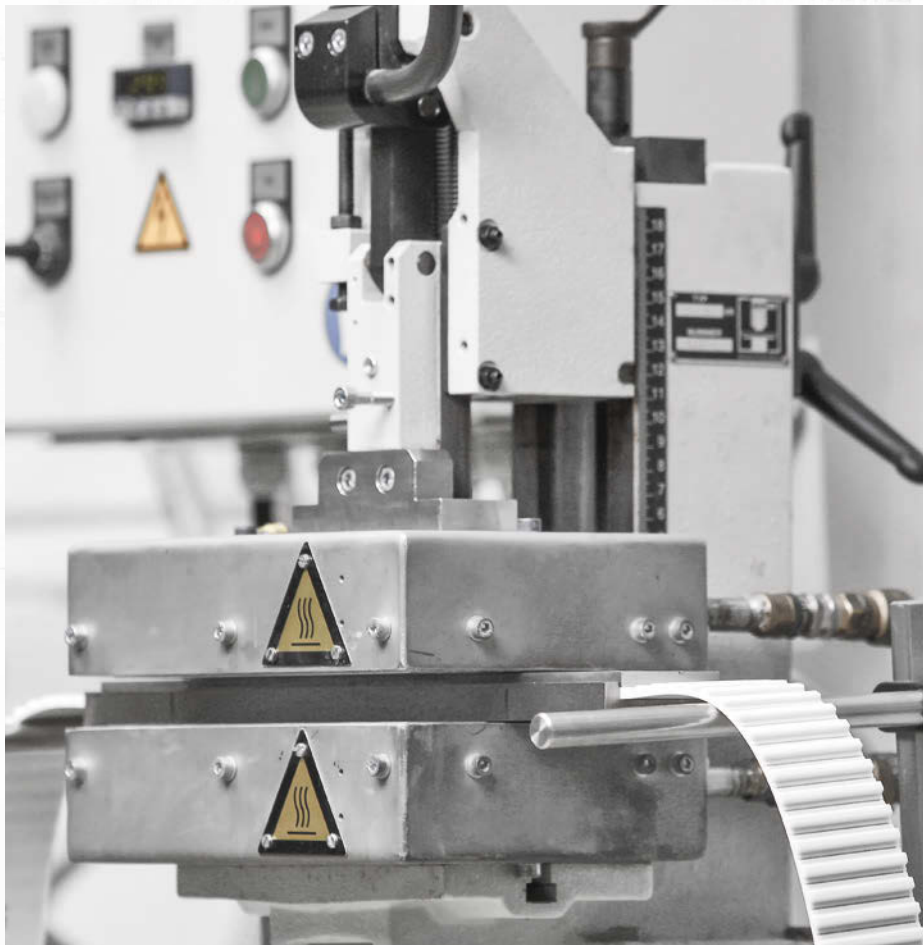




TECHNICAL INFORMATION

optibelt ALPHA JOINT

WORKSHOP EQUIPMENT FOR POLYURETHANE TIMING BELTS





“A matter of trust.”

Paul, 46, chief engineer

POLYURETHANE TIMING BELTS

OPTIBELT polyurethane timing belts convince due to their impressive product features.

They set standards regarding strength, elongation and wear.

The thermal and chemical capacity is exceptional.

It is good to know that these benefits are combined with a competent technical service.

FIRST CLASS PRODUCTS FOR FLEXIBLE DRIVE SOLUTIONS AND CONVEYANCE CHALLENGES

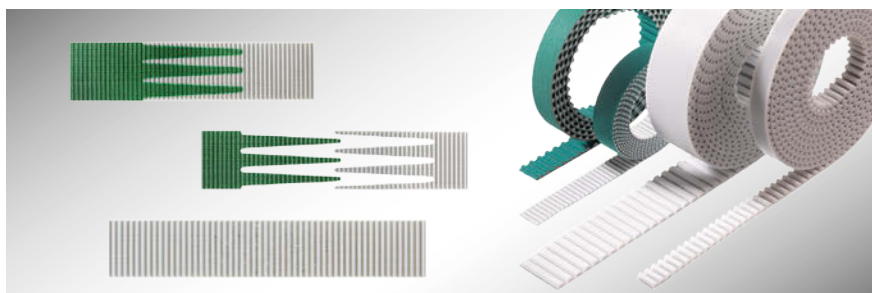
OPTIBELT is capable of implementing even the most challenging requirements economically.

Professionalism you can also benefit from.



optibelt ALPHA JOINT

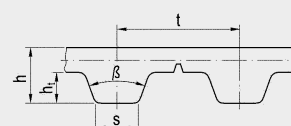
– WELDING STATION FOR POLYURETHANE TIMING BELTS



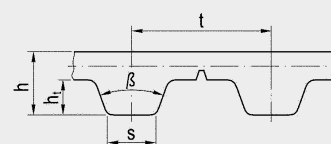
CHARACTERISTIC OF THE optibelt ALPHA JOINT:

- For joining of **optibelt ALPHA LINEAR** polyurethane timing belts
- Shortest possible welding length: 700 mm
- Maximum welding width: 100 mm or 4"
- Welding and stamping tools available in profiles XL, L, H, T5, T10, AT5, AT10, 5M, 8M for standard widths (others on request)
- Belts with PAZ and/or PAR suitable
- Belts with tension member steel, steel high flexible, stainless steel and aramid can be joined
- Short welding time, approx. 15 to 20 min. depending on profile
- Includes comprehensive user manual with failure mode tables
- Wide range of support tools and spare parts available

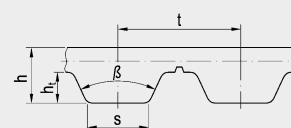
PROFILES



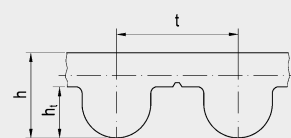
XL, L, H



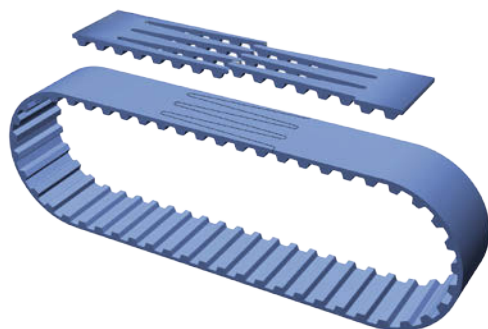
T5, T10



AT5, AT10



5M, 8M



Finger-shaped punched-out belt ends and welded **optibelt ALPHA V** timing belt

optibelt ALPHA JOINT

– WELDING STATION FOR POLYURETHANE TIMING BELTS

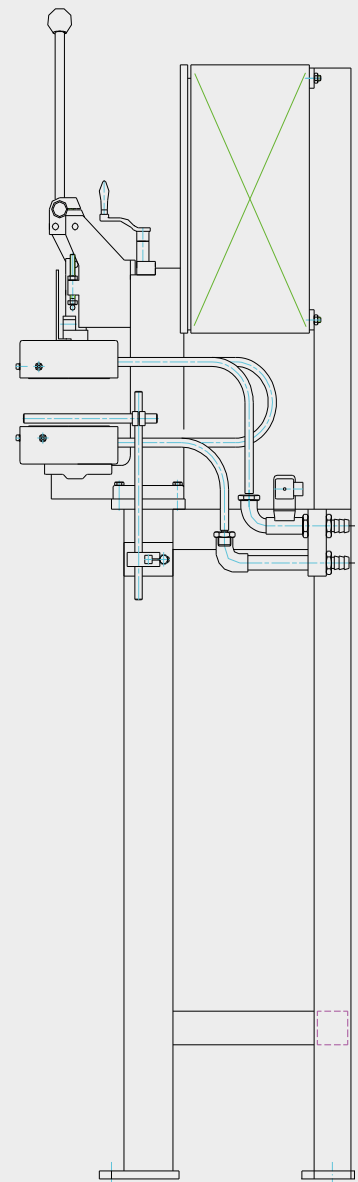


PRODUCT INFO FOR optibelt ALPHA JOINT:

- Power supply: 3~400 V, 50 Hz, 16 A; 3~200 V, 50/60 Hz, 20 A
- Water cooling system requires water tank min. 300 l volume
- Submersible pump included
- Equipment weight: approx. 120 kg
- Dimension of the welding station:
approx. 900 mm, 1670 mm, 700 mm (w, h, d)
- Required place of work (including water tank, clicker press,
measuring table): approx. 3 m x 5 m
- Water tank: the delivered water pump must be placed in a tank
with min. 300 litres or more



SIDE VIEW

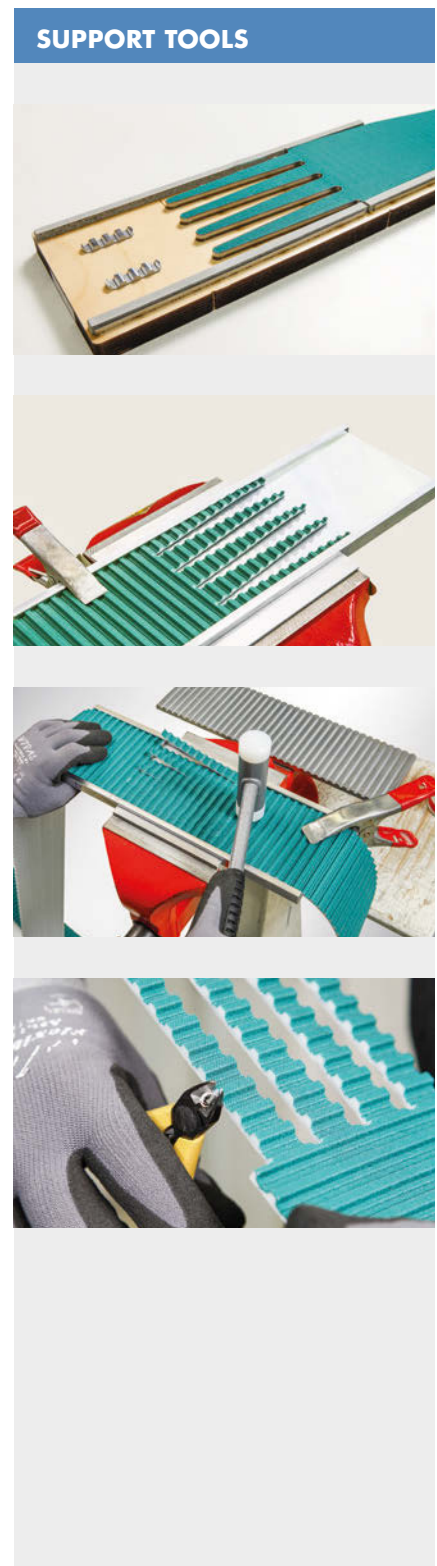


optibelt **ALPHA JOINT**

– SUPPORT TOOLS FOR THE optibelt ALPHA JOINT



- Stamping tools for each profile and standard widths
- Welding tools for each profile and standard widths, consisting of one profiled welding tool top part and one welding tool bottom part (U-rail)
- For easy belt positioning in the stamping tool various positioning inserts per pitch are available
- Diagonal cutters
- Wide range of spare parts such as heating cartridge, thermostats and magnetic valves are ex stock available

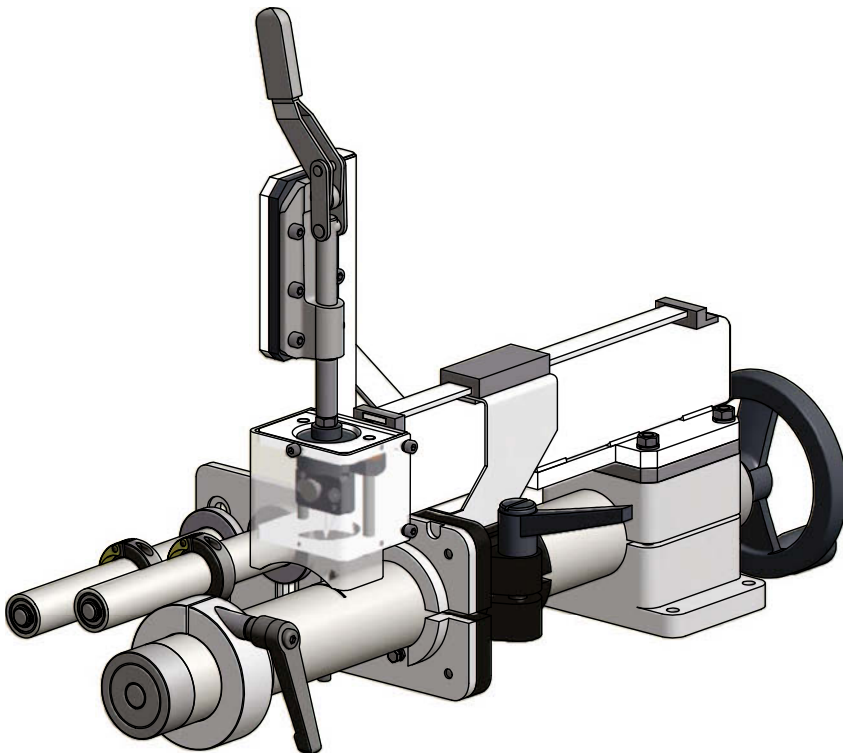


optibelt ALPHA JOINT

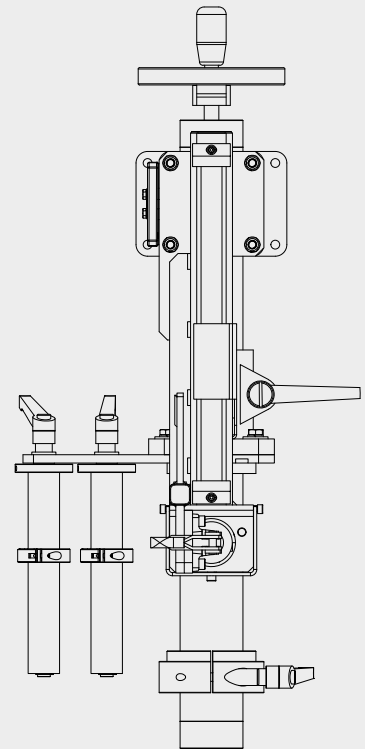
– MANUAL BELT SLITTER



- For disjoining endless welded **optibelt ALPHA V** belts to standard widths this cutting equipment is required.
- If multiple belts are welded, belts can be easily separated in welding area
- For max. belt width of 150 mm
- With mounted digital caliper to read the adjusted slitting width
- Slitting knife is a regular cutter blade

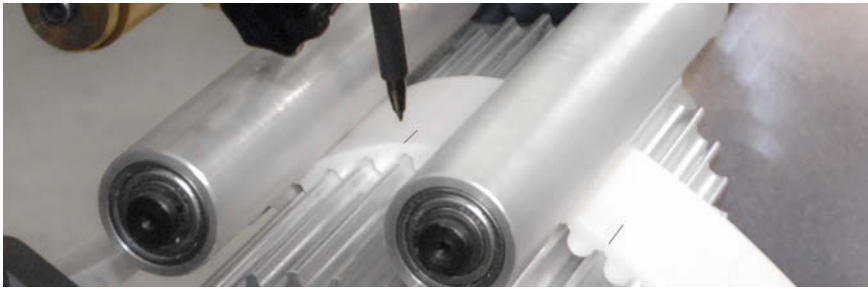


TOP VIEW



optibelt ALPHA JOINT

– MANUAL BELT MEASURING EQUIPMENT



- Power supply: 230V, 50 - 60 Hz
- Dimension of the equipment: (w,h,d in m): 0,41 x 0,4 x 0,42
- Weight: approx. 25 kg
- Measuring abilities: pitch 3, 5, 8, 10, 14, 20, XL, L, H
- Measuring pulleys:
3 pitches on your choice are included, aluminium, width 200 mm
- any further pulleys on request
- Pre-selection switch for pitches
- Length measures indicated in mm
- Final length marking: infra-red or printed indicator possible
- Demonstration video on request

TECHNICAL EQUIPMENT



optibelt **ALPHA JOINT**

– ADDITIONALLY RECOMMENDED TECHNICAL EQUIPMENT*



- 1 Double disk grinding machine: excessive PU overflow from welding process can be removed
- 2 Clicker press: for punching out the finger-shaped ends of the joints
- 3 Vice: for clamping the welding tool to place the finger-shaped ends and removing welded belt

TECHNICAL EQUIPMENT



* Listed items not supplied by OPTIBELT

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