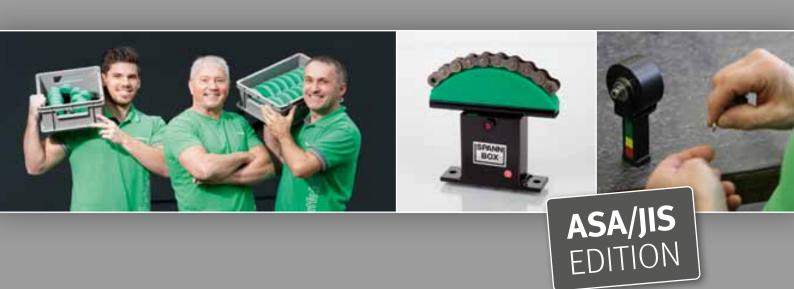
smooth. good. informed.



CHAIN AND BELT TENSIONING SYSTEMS



TENSIONING SYSTEMS – TABLE OF CONTENTS

| Tabl | e of Contents | 2 |
|-------|--|---------|
| Intro | oduction | 3 |
| | Function, Principles, Handling | 4 |
| | Optical Control Displays | 5 |
| | Spann-Box® Overview | 6 |
| | Signs and Symbols | 7 |
| | Graphical Depiction of Installation Examples | 8 |
| | The Correct Choice of Chain Tensioner | 9 |
| | Selection Table for Tensioning Systems | 10 – 11 |
| | Mounting Brackets for Spann-Box® Systems | 12 – 13 |
| | Chain and Belt Monitors/Inductive Switches | 14 |
| | Chain Tensioners for Roller Chains as per DIN 8188 | 15 – 27 |
| | Mini-Tensioner, Spann-Boy®TS, Spann-Box® size 0, Spann-Box® size 30, Spann-Box® size 1, Spann-Box® size 2 | |
| | Automatic Belt Tensioners | 28 – 33 |
| | Spann-Boy®TS, Spann-Box® size 0, Spann-Box® size 1, Spann-Box® size 1 Type SR-L, Spann-Box® size 1 Type SR-S | |
| | Special Tensioners | 34 – 35 |

TENSIONING SYSTEMS

For chains and belts

Chains and belts are important wearing parts in many plants and machines. Since they are constantly moving, the stresses to which they are subjected are particularly high. Belts require pretensioning – chain links elongate and run increasingly less smoothly.

Murtfeldt tensioning systems keep chains and belts reliably tensioned, thus increasing their lifetime. They are tried-and-tested following decades of use around the world. Our experience with these systems enables us to provide you with optimum advice and to always offer the best possible solution for your needs.

Wide range - extensive inventory

Thanks to our variety of different tensioning systems, we are able to quickly and accurately meet practically any requirements. If you require an individual solution, our free-of-charge, non-binding consulting services are sure to help.

One more thing: We supply all tensioning systems with a declaration of installation in line with the Machinery Directive EC 2006/42/EC.

Advantages of our tensioning systems

- Smooth chain movement
- Reduction in wear on chain links and drive sprockets
- Reduction in working noise
- Automatic adjustment
- Compensation for chain and belt elongation
- Use as chain and belt monitors
- Direction change for chain and belt drives
- Small installation size
- Simple assembly
- Quick and safe recognition of need to adjust system thanks to optical control display



FUNCTION, PRINCIPLES, HANDLING

Our tensioning systems are free-running and resilient. As a result, they do not function as rigid deflectors when stressed. This avoids excessive contact pressure. Our systems aim to keep the overall force on the slack strand – resulting from the weight of the chain and the centrifugal force – under control. The ideal installation position is right behind the drive sprocket in order to keep the length of the slack strand that needs to be tensioned as short as possible.

Tried-and-tested quality

The stable design of the steel housing makes our tensioning systems resistant to high mechanical loads. Our housings and tensioning systems are galvanized, which provides protection against corrosion. A plastic lacquer makes the surface impact and scratch resistant. In addition, we offer a stainless steel range for particularly high corrosion resistance requirements. All slide profiles are made of Original Material "S"[®].

Installation

Special holding mechanisms initially hold back the spring action. When these retainers are released following the installation, the tensioning pressure is released in a targeted manner.

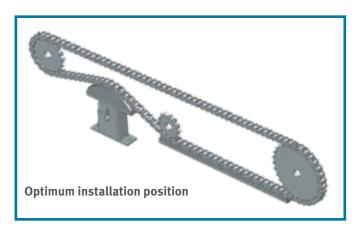
Tension force regulation

For all Murtfeldt tensioning systems, you can choose either light or heavy tensioning pressure. Depending on the type, the tensioners have one, two, or three springs. You decide how many springs you want to use. This enables the optimum application of pressure onto a chain or belt running on the profile.

Use at extreme temperatures

If you choose the correct material, you can also use our tensioning systems in otherwise problematic temperature ranges:

Normal steel springs: $-10 \text{ to } +170^{\circ}\text{C}$ Stainless steel springs: $-40 \text{ to } +200^{\circ}\text{C}$



Employees from our application technology department are constantly available to make sure that we are able to provide the best product to meet your requirements.

The weight on the return side of the chain that is to be tensioned should not be greater than the force of a spring already 50% released.

The red dot on the Spann-Box® and/or the red plastic clips visible at the bottom of the Spann-Box® signify "heavy tension force".





OPTICAL CONTROL DISPLAYS

Murtfeldt Spann-Box® systems generally have a coloured scale. This enables you to determine the tensioning state of the chain at a glance. The display is as easy to understand as possible:

Green

The chain tensioner is working in the "green range". The tensioning force is providing an ideal, smooth running movement.

Yellow

The tensioning force is not ideal but is still sufficient.

Red

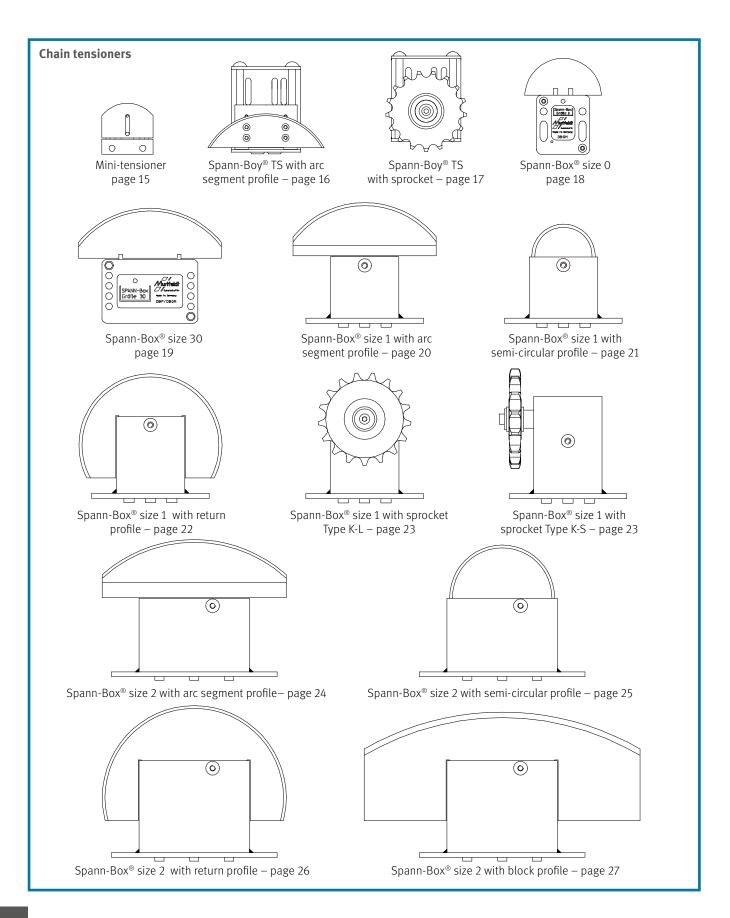
The chain tensioner needs to be adjusted. The tensioning force on the chain is too low for a smooth and reliable running movement.

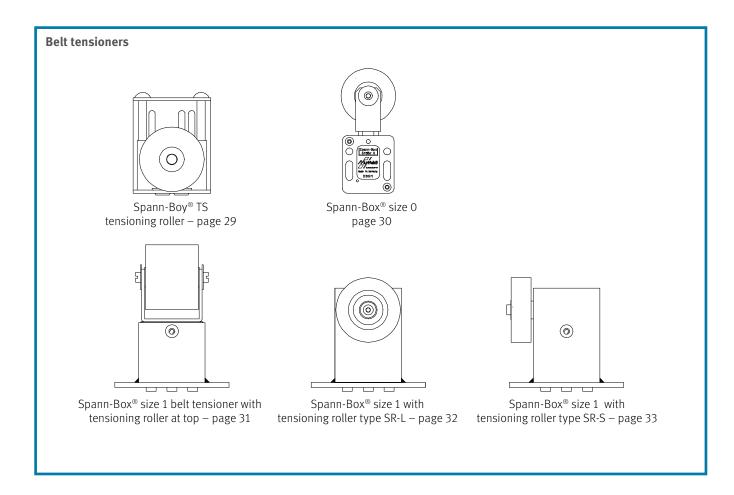
The chain has to be replaced if it is not possible to sufficiently adjust the chain tensioner using any of the available adjustment options.





OVERVIEW OF SPANN-BOX® TYPES





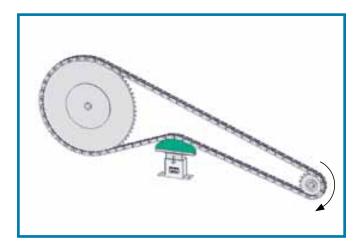
SIGNS AND SYMBOLS

Features and properties of tensioning systems

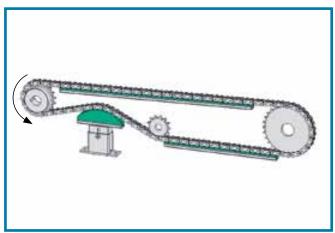
- One pre-tensioned compression spring, tension distance specification in mm
- Two pre-tensioned compression springs, tension distance specification in mm
- Three pre-tensioned compression springs, tension distance specification in mm
- Further adjustment possible: Adjustment range in mm once original tension distance has been used (value for size 1 and size 2 if using mounting bracket)

- Plastic housing
- Steel housing (also stainless steel)
- Track profile for all large chains
- U profile for chains up to specified overall width in mm

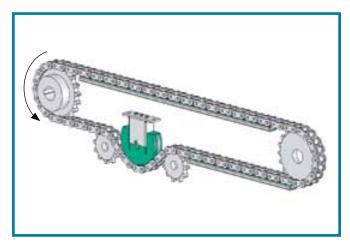
GRAPHICAL DEPICTION OF INSTALLATION EXAMPLES



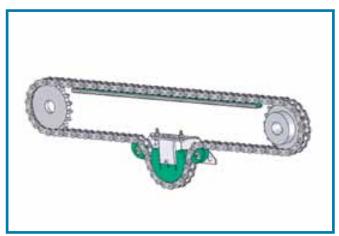
Popular but non-optimal arrangement, tension distance not used efficiently



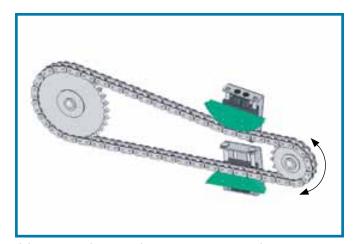
Optimum, extremely efficient chain support/tensioning



180° return profile. This arrangement allows a particularly long chain length to be accommodated.



Omega tensioning station — ready-to-install system



If the running direction changes, we recommend using two Spann-Box® units near to the drive.



Return/tensioning station

THE CORRECT CHOICE OF CHAIN TENSIONER

Smooth running is a decisive factor for the long lifetime of a chain. We therefore recommend the use of a chain tensioner with a slide profile. Advantage: Protects the chain links and provides a quieter, safer movement.

We are happy to provide detailed advice if you inform us of the required criteria. Our Web site at www.murtfeldt.com contains a design questionnaire that you can use to enter all required data.

IMPORTANT CRITERIA WHEN SELECTING THE BEST CHAIN TENSIONER FOR YOUR NEEDS Axis-centre distances of sprockets Chain design Constant/changing running direction Chain speed Chain lubrication Operating time and intensity Risk of contamination Environmental temperature Chemical influences

SELECTION TABLE FOR CHAIN TENSIONERS

1) It is possible to use several types of SPANN-BOX $^{\otimes}$ alongside each other with duplex or triplex chains.





Simplex chain

| Chain | Pitch | inch | MINI- TENSIONER | SPANN- BOY®TS with | SPANN- BOY®TS with | SPANN- BOX® | SPANN- BOX® | SPANN- BOX® | SPANN- BOX® | MINI- TENSIONER |
|----------------------------------|------------------|-------|--------------------|------------------------|-----------------------|----------------|----------------|----------------|----------------|--------------------|
| ASA ISO 606 | mm | | | arc segment profile | sprocket | size 0 | size 30 | size 1 | size 2 | |
| Unspecified cl of up to 15 mi | hains with a wio | ith | 2) | 2) | O 2) | 2) | | | | |
| 06C | 9,525 | 3/8 | | 2) | Ö 2) | 2) | 2) | • • | | |
| 08A | 12,7 | 1/2 | | • | • | | | | | |
| 10A | 15,875 | 5/8 | | • | • | | | | | |
| 12A | 19,05 | 3/4 | | • | • | | | | | |
| 16A | 25,4 | 1 | | | | | | | | |
| 20A | 31,75 | 1 1/4 | | | | | | | | |
| 24A | 38,1 | 1 1/2 | | | | | | | | |
| 28A | 44,45 | 1 3/4 | | | | | | | • | |
| 32A | 50,8 | 2 | | | | | | | • | |
| 40A | 63,5 | 2 ½ | | | | | | | • | |
| 48A | 76,2 | 3 | | | | | | | | |

EXPLANATION OF SYMBOLS

Profiles symbols for selection tables



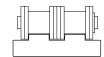
Arc segment profile

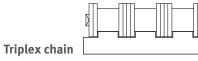
- · Slide profile shape with optimum mechanical properties
- · Simultaneous contact with several rollers
- · Optimum chain protection



Return profile

- · 180° change of direction
- The 180° change of direction permits the dual use of longer tension distances.





| _ | | | 1 | | | | | | | |
|----|----|---|----|----|-----|---|---|---|---|---|
| Dı | 11 | n | 10 | V | , | ~ | n | 2 | п | n |
| יש | u | v | ιτ | -^ | . 1 | u | | α | | |

| SPANN- BOY®TS with sprocket | SPANN- BOX® size 0 | SPANN- BOX® size 30 | SPANN- BOX® size 1 | SPANN- BOX® size 2 | SPANN- BOY®TS | SPANN- BOX® size 0 | SPANN- BOX® size 30 | SPANN- BOX® size 1 | SPANN- BOX® size 2 |
|-----------------------------------|--------------------------|----------------------------------|--|--|--|---|---|--|--|
| 2) | 2) | 2) | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | 1) |
| | | | | 1) | | | | | 1) |
| | | | | 1) | | | | | 1) |
| | | | | 1) | | | | | 1) |
| | | | | 1) | | | | | 1) |
| | BOY®TS with sprocket | BOY®TS with sprocket BOX® size 0 | BOY®TS with sprocket Size 0 BOX® size 30 | BOY®TS with sprocket size 0 BOX® size 30 BOX® size 1 | BOY®TS with sprocket size 0 BOX® size 1 BOX® size 2 2) 2) 2) 2) | BOY®TS with sprocket size 0 BOX® size 1 BOX® size 2 BOY®TS 2) 2) 2) 2) | BOY®TS with size 0 size 30 size 1 SoX® size 2 BOY®TS BOX® size 0 2) 2) 2) 2) 1 3 | BOX° size 0 Size 30 Size 1 SoX° size 2 SoX° size 0 Size 30 Siz | BOY*TS with Size 0 Size 30 Size 1 Size 2 Size 2 Size 0 Size 30 Size 1 Size 2 Size 0 Size 30 Size 1 Size 2 Size 0 Size 30 Size 1 Size 2 Size 30 Siz |



Block profile

- · Suitable for particularly heavy chains and high mass forces
- \cdot Slide profile and tension core made from a single piece
- $\cdot \ \text{No screw connections} \\$
- · Excellent stability
- \cdot 300 mm slide profile ensures support for many rollers with chains with large chain pitches



Semi-circular profile

- · For 90° deflection
- · Contact with only very few chain rollers
- · Recommended where space is at a premium



Roller/sprocket

- \cdot For small changes of direction
- \cdot For high chain speeds (>1 m/s)

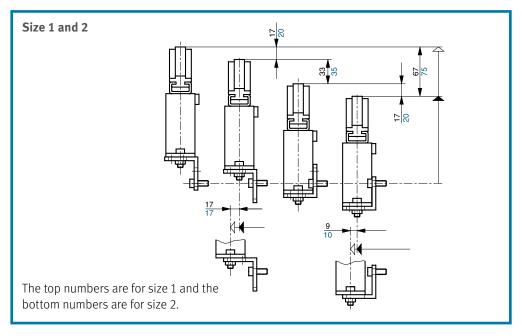
MOUNTING BRACKETS FOR SPANN-BOX® SYSTEMS

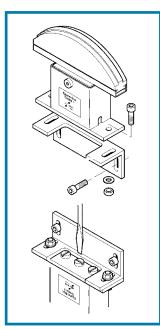
The ideal assembly aid

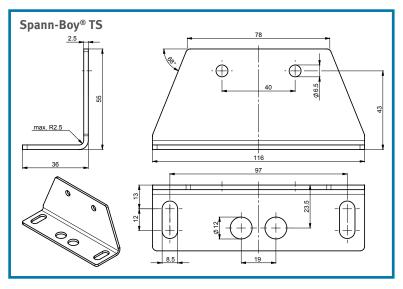
We offer various mounting brackets to make assembly more easy. They provide additional modification/adjustment flexibility. Elongated mounting holes allow easy adjustment if the normal tension distance has already been used up. Alignment errors can be corrected by side movement.

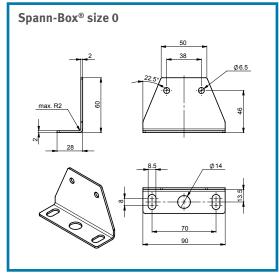
We are happy to provide detailed assembly instructions for all our systems. Simply contact us or see our website at www.murtfeldt.com.

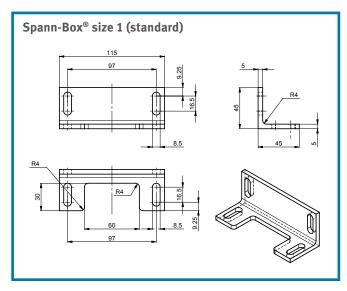
| Corresponding size | Adjustment range | Material | Article no. |
|------------------------|------------------|---------------------------------------|-------------|
| 1 | 67 mm | St 37 powder-coated | 281 090 001 |
| 2 | 75 mm | St 37 powder-coated | 281 090 002 |
| 1 | 67 mm | 1.4301 (stainless steel) | 281 090 029 |
| 2 | 75 mm | 1.4301 (stainless steel) | 281 090 030 |
| 0 | - | 1.4301 (stainless steel) incl. screws | 281 090 087 |
| 30 | - | 1.4301 (stainless steel) incl. screws | 281 090 088 |
| TS | - | 1.4301 (stainless steel) | 281 090 091 |
| 1 (alternative fixing) | 87 mm | 1.4301 (stainless steel) | 281 090 092 |

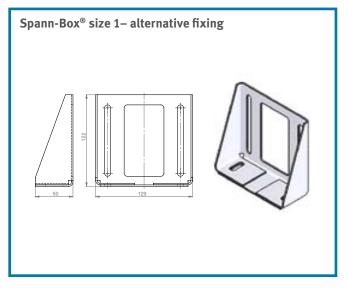


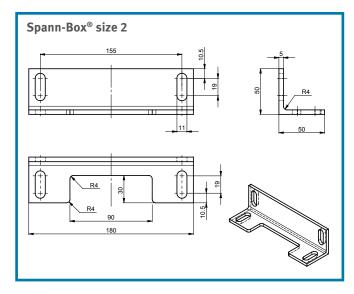


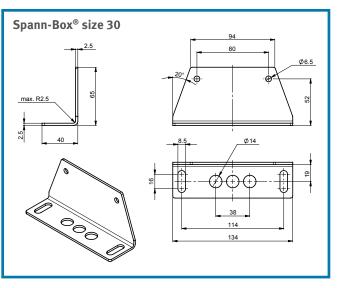












CHAIN AND BELT MONITORS

If a chain has excessive elongation or a break, critical damage can occur. Our chain and belt monitors track the production process and trigger the automatic shutdown of the machine if malfunctions occur. For this purpose, a mechanical limit switch or contact-free inductive switch is integrated into your chain or belt tensioner.

Both individual and reliable

Switch design requirements can vary greatly. Please contact us for more information. We will design the best solution for your requirements.

Inductive switches for Spann-Box®

Alternatively, a contact-free inductive switch can be used. This makes sense if there is a risk of explosion or contamination. Concerns about wear might also result in the use of an inductive switch. Inductive switches can be used for all of our Spann-Box® types as well as for our special models and designs in stainless steel.













CHAIN TENSIONERS FOR ROLLER CHAINS PER DIN 8188

MINI-TENSIONER

The smallest automatic chain tensioner in our range, the mini-tensioner is targeted for use with smaller chains with a chain pitch of up to $\frac{1}{2}$.

| Tension force | | Light | Heavy |
|---------------|------------------|-----------|-----------|
| rension force | 2 springs | 19 – 13 N | 85 – 58 N |
| | Tension distance | 16 mm | 16 mm |

MINI-TENSIONER

with arc segment profile

Tensioning pressure

· Choice of light or heavy spring force

Chain guide

· Track profile for 06B-1, 08B-1 and duplex chains

Attachment

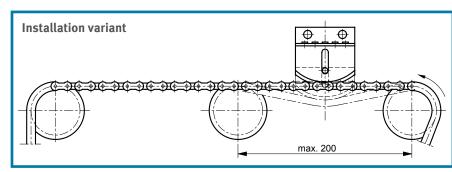
· Screws on bracket base

Axis-centre distance

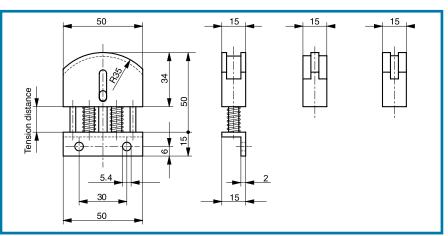
· Max. 200mm recommended

| Chain no. | | Chain dimensions | Article no. | Article no. | |
|-----------|----------|------------------|---------------------|---------------------|--|
| ASA/JIS | DIN 8188 | in inch | Light tension force | Heavy tension force | |
| 25 | 04C-1 | 1/4" x 1/8" | 291 050 001 | 291 050 002 | |
| 35 | 06C-1 | 3/8" x 3/16" | 291 050 003 | 291 050 004 | |
| 40 | 08A-1 | 1/2" x 5/16" | 291 050 010 | 291 050 007 | |
| 35-2 | 06C-2 | 3/8" x 3/16" | 291 050 005 | 291 050 006 | |

Special and stainless steel designs on request







SPANN-BOY® TS

Three tension pressure settings

If the space beneath the chain is not large enough for a traditional tensioning system, Spann-Boy® TS can be used. They are installed near to the chain and thus require considerably less space.

Design

Our Spann-Boy® TS models are made from robust steel. The focus is on achieving a long lifetime and reliability. There are two different variants: With an arc segment profile or with a sprocket. Spann-Boy® TS has two pre-tensioned

springs. They can be released separately and provide three different tension pressure settings. The bore holes in the housing make assembly easier and provide more scope for adjustment once the original tension distance has been used up.

| | | Light | Heavy |
|----------------------------|--------------------|--------------------------|------------|
| Tension force Spann-Boy®TS | 1 released spring | 58 – 32 N | 132 – 60 N |
| | 2 released springs | 190 – 96 N (extra heavy) | |
| | Tension distance | 40 mm | 40 mm |

SPANN-BOY® TS

with arc segment profile

Applications

· For applications with restricted free space beneath the chain. 40mm are sufficient.

Tensioning pressure

· Spann-Boy® TS has one light and one heavy pressure spring that can be released together or separately depending on the required tension pressure.











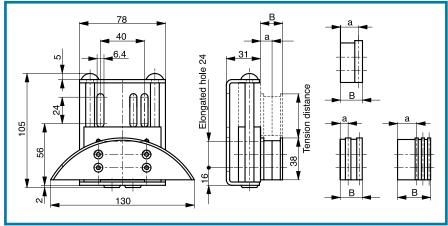
· Installed next to the chain

Attachment

· Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dimensions | В | а | Article no. Standard design | Article no. |
|-----------|----------|------------------|----|-------|--------------------------------|-----------------|
| ASA/JIS | DIN 8188 | in inch | | | | Stainless steel |
| 35 | 06C-1 | 3/8" x 3/16" | 20 | 10.00 | 291 060 001 | 292 060 002 |
| 40 | 08A-1 | 1/2" x 5/16" | 20 | 17.90 | 291 060 003 | 292 060 004 |
| 50 | 10A-1 | 5/8" x 3/8" | 20 | 16.45 | 291 060 005 | 292 060 006 |
| 60 | 12A-1 | 3/4" x 1/2" | 20 | 15.75 | 291 060 007 | 292 060 008 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 20 | 14.35 | 291 060 009 | 292 060 010 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 20 | 7.85 | 291 060 011 | 292 060 012 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 32 | 15.15 | 291 060 013 | 292 060 014 |
| 35-3 | 06C-3 | 3/8" x 3/16" | 32 | 10.80 | 291 060 017 | 292 060 018 |





SPANN-BOY® TS

with sprocket



Applications

- · For applications with restricted free space beneath the chain
- · High chain speeds (>1m/s)
- · Small return radii

Tensioning pressure

 Spann-Boy® TS has one light and one heavy pressure spring that can be released together or separately depending on the required tension pressure.

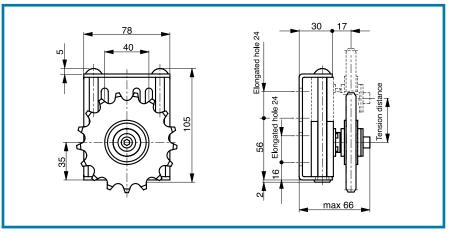
Attachment

- · Installed next to the chain
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dimensions in inch | Number of teeth | Article no. |
|-----------|----------|--------------------------|-----------------|-----------------|
| ASA/JIS | DIN 8188 | | | standard design |
| 35 | 06C-1 | 3/8" x 3/16" | 21 | 291 140 013 |
| 40 | 08A-1 | 1/2" x 5/16" | 16 | 291 240 009 |
| 40 | 08A-1 | 1/2" x 5/16" | 17 | 291 140 014 |
| 50 | 10A-1 | 5/8" x 3/8" | 16 | 291 240 013 |
| 50 | 10A-1 | 5/8" x 3/8" | 17 | 291 140 015 |
| 60 | 12A-1 | 3/4" x 1/2" | 15 | 291 140 016 |
| 60 | 12A-1 | 3/4" x 1/2" | 16 | 291 240 015 |

Special and stainless steel designs on request





The Spann-Box® size 0 is the smallest in our range. It is used where installation spaces are very restricted. The plastic housing means there is no risk of corrosion.

| | | Light | Heavy |
|---------------|------------------|-----------|------------|
| Tension force | 1 spring | 58 – 32 N | 132 – 60 N |
| | Tension distance | 40 mm | 40 mm |

SPANN-BOX® SIZE O

with semi-circular profile

Applications

- · Restricted installation space
- · Environments with a risk of corrosion
- · Chain drives with a pitch of up to 3/4"

Stainless steel screws and springs

- · Choice of light or heavy spring force
- · Lock pin in base of housing









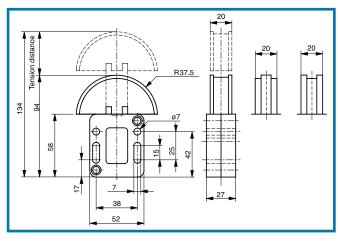
Tensioning pressure

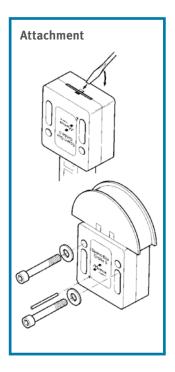
Attachment

- · Installed underneath the chain
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dim. | Article no. | Article no. |
|-----------|----------------------|--------------|---------------------|---------------------|
| ASA/JIS | DIN 8188 | in inch | Light tension force | Heavy tension force |
| 25 | 04C-1 (U-profile) | 1/4" x 1/8" | 291 000 001 | 291 000 002 |
| 35 | 06C-1 | 3/8" x 3/16" | 291 000 013 | 291 000 016 |
| 40 | 08A-1 | 1/2" x 5/16" | 291 000 003 | 291 000 004 |
| 50 | 10A-1 | 5/8" x 3/8" | 291 000 005 | 291 000 006 |
| 60 | 12A-1 | 3/4" x 1/2" | 291 000 015 | 291 000 012 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 291 000 009 | 291 000 010 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 291 000 007 | 291 000 008 |







Three tension pressure settings

Spann-Box® size 30 provides high quality at the same time as being economically priced. The robust plastic housing gives high resistance to corrosion.

| | | Light | Heavy |
|---------------|--------------------|------------|-------------|
| | 1 released spring | 58 – 32 N | 132 – 60 N |
| Tension force | 2 released springs | 116 – 64 N | 264 – 120 N |
| | 3 released springs | 174 – 96 N | 396 – 180 N |
| | Tension distance | 40 mm | 40 mm |

SPANN-BOX® SIZE 30

with arc segment profile

Stainless steel screws and springs











Applications

- · Environments with a risk of corrosion
- · No high mechanical stresses

Tensioning pressure

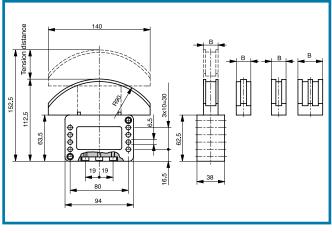
· Choice of light or heavy spring force

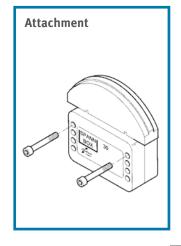
Attachment

- · Installed underneath the chain
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | Chain no. | | В | | Article no. Heavy tension |
|-----------|-------------------|--------------|----|-------------|---------------------------|
| ASA/JIS | DIN 8188 | in inch | | force | force |
| 25 | 04C-1 (U-profile) | 1/4" x 1/8" | 20 | 291 030 001 | 291 030 012 |
| 35 | 06C-1 | 3/8" x 3/16" | 20 | 291 030 023 | 291 020 024 |
| 40 | 08A-1 | 1/2" x 5/16" | 20 | 291 030 002 | 291 030 013 |
| 50 | 10A-1 | 5/8" x 3/8" | 20 | 291 030 003 | 291 030 014 |
| 60 | 12A-1 | 3/4" x 1/2" | 20 | 291 030 004 | 291 030 015 |
| 80 | 16A-1 | 1" x 5/8" | 20 | 291 030 005 | 291 030 016 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 20 | 291 030 006 | 291 030 017 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 20 | 291 030 007 | 291 030 018 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 25 | 291 030 008 | 291 030 019 |
| 60-2 | 12A-2 | 1/2" x 5/16" | 30 | 291 030 009 | 291 030 020 |
| 35-3 | 06C-3 | 3/8" x 3/16" | 25 | 291 030 010 | 291 030 021 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 35 | 291 030 011 | 291 030 022 |







Three tension pressure settings

Spann-Box $^{\circ}$ size 1 is available in several variants. The robust design with its steel housing guarantees durability and reliable operation. We offer a total of five different designs to meet individual requirements.

| | | Light | Heavy |
|---------------|---------------------|------------|-------------|
| | 1 released spring | 58 – 32 N | 132 – 60 N |
| Tension force | 2 released springs | 116 – 64 N | 264 – 120 N |
| | 3 released springs | 174 – 96 N | 396 – 180 N |
| | Tensioning distance | 40 mm | 40 mm |

Reverse operation

If the running direction changes, we recommend using the appropriate Spann-Box® size with a long housing. We deliver this variant with heavy tension force.

$SPANN-BOX^{\circledR}\ SIZE\ 1 \quad \ \ \text{with arc segment profile}$











Tensioning pressure

· Choice of light or heavy spring force

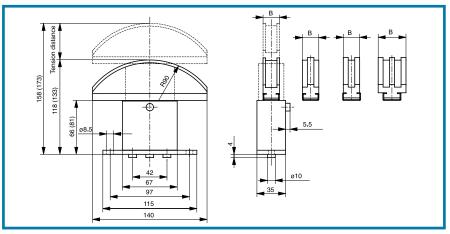
Attachment

· Installed underneath the chain

• Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dim. in inch | В | Article no. Short housing; Light | Article no. Short housing, Heavy | Article no. Long housing, Heavy | Article no. Short housing, Heavy | Article no. Long housing, Heavy |
|-----------|-------------------------|-----------------------------|----|----------------------------------|----------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| ASA/JIS | DIN 8188 | | | tension force | tension force | tension force | tension force, Stainless steel | tension force, Stainless steel |
| 25/35 | 04/06C-1 (U-profile) | 1/2" x 1/8" 3/8" x 3/16" | 20 | 291 010 001 | 291 010 016 | 291 010 202 | 292 010 016 | 292 010 202 |
| 40 | 08A-1 | 1/2" x 5/16" | 20 | 291 010 002 | 291 010 017 | 291 010 204 | 292 010 017 | 292 010 204 |
| 50 | 10A-1 | 5/8" x 3/8" | 20 | 291 010 003 | 291 010 018 | 291 010 206 | 292 010 018 | 292 010 206 |
| 60 | 12A-1 | 3/4" x 1/2" | 20 | 291 010 004 | 291 010 019 | 291 010 208 | 292 010 019 | 292 010 208 |
| 80 | 16A-1 | 1" x 5/8" | 20 | 291 010 005 | 291 010 020 | 291 010 210 | 292 010 020 | 292 010 210 |
| 100 | 20A-1 | 1 1/4" x 3/4" | 20 | 291 010 006 | 291 010 021 | 291 010 212 | 292 010 021 | 292 010 212 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 20 | 291 010 007 | 291 010 022 | 291 010 214 | 292 010 022 | 292 010 214 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 20 | 291 010 008 | 291 010 023 | 291 010 216 | 292 010 023 | 292 010 216 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 25 | 291 010 009 | 291 010 024 | 291 010 218 | 292 010 024 | 292 010 218 |
| 60-2 | 12A-2 | 3/4" x 1/2" | 30 | 291 010 010 | 291 010 025 | 291 010 220 | 292 010 025 | 292 010 220 |
| 80-2 | 16A-2 | 1" x 5/8" | 40 | 291 010 011 | 291 010 026 | 291 010 222 | 292 010 026 | 292 010 222 |
| 35-3 | 06C-3 | 3/8" x 3/16" | 25 | 291 010 012 | 291 010 027 | 291 010 224 | 292 010 027 | 292 010 224 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 35 | 291 010 013 | 291 010 028 | 291 010 226 | 292 010 028 | 292 010 226 |
| 50-3 | 10A-3 | 5/8" x 3/8" | 45 | 291 010 014 | 291 010 029 | 291 010 228 | 292 010 029 | 292 010 228 |
| 60-3 | 12A-3 | 3/4" x 1/2" | 55 | 291 010 015 | 291 010 030 | 291 010 230 | 292 010 030 | 292 010 230 |





with semi-circular profile









Applications

· For restricted installation spaces

Tensioning pressure

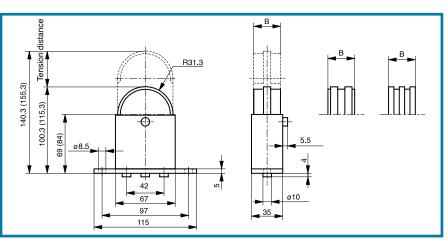
· Choice of light or heavy spring force

Attachment

- · Easier assembly thanks to mounting bracket
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dim. in inch | В | housing; Light housing, Heavy h | | housing, Heavy housing, Heavy | Article no. Short housing, Heavy | Article no. Long housing, Heavy |
|-----------|----------|-----------------------|----|---------------------------------|---------------|-------------------------------|-----------------------------------|------------------------------------|
| ASA/JIS | DIN 8188 | | | tension force | tension force | tension force | tension force, Stainless steel | tension force, Stainless steel |
| 35 | 06C-1 | 3/8" x 3/16" | 30 | 291 010 031 | 291 010 041 | 291 010 232 | 292 010 032 | 292 010 232 |
| 40 | 08A-1 | 1/2" x 5/16" | 30 | 291 010 032 | 291 010 042 | 291 010 234 | 292 010 034 | 292 010 234 |
| 50 | 10A-1 | 5/8" x 3/8" | 30 | 291 010 033 | 291 010 043 | 291 010 236 | 292 010 036 | 292 010 236 |
| 60 | 12A-1 | 3/4" x 1/2" | 30 | 291 010 034 | 291 010 044 | 291 010 238 | 292 010 038 | 292 010 238 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 30 | 291 010 035 | 291 010 045 | 291 010 240 | 292 010 040 | 292 010 240 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 30 | 291 010 036 | 291 010 046 | 291 010 242 | 292 010 042 | 292 010 242 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 30 | 291 010 037 | 291 010 047 | 291 010 244 | 292 010 044 | 292 010 244 |
| 60-2 | 12A-2 | 3/4" x 1/2" | 30 | 291 010 038 | 291 010 048 | 291 010 246 | 292 010 046 | 292 010 246 |
| 35-3 | 06C-3 | 3/8" x 3/16" | 30 | 291 010 039 | 291 010 049 | 291 010 248 | 292 010 048 | 292 010 248 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 30 | 291 010 040 | 291 010 050 | 291 010 250 | 292 010 050 | 292 010 250 |





Clamp dimensions (...) for long housing











If the Spann-Box has been properly fitted, the double length of the Spann-Box's tension distance can be used to compensate for chain extension.

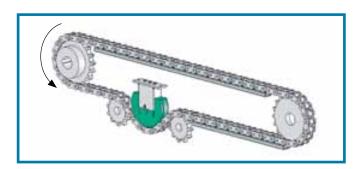
For more examples see page 8.

Tensioning pressure

· Heavy spring force

Attachment

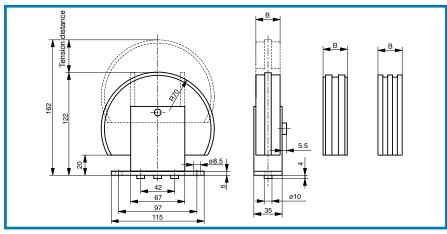
- · Easier assembly thanks to fastening bracket
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)





| Chain no. | Chain no. | | В | Article no. Long housing, | Article no. Long housing, |
|-----------|-----------|--------------|----|---------------------------|---|
| ASA/JIS | DIN 8188 | in inch | | Heavy tension force | Heavy tension force, Stain- less steel |
| 35 | 06C-1 | 3/8" x 3/16" | 30 | 291 010 051 | 292 010 051 |
| 40 | 08A-1 | 1/2" x 5/16" | 30 | 291 010 052 | 292 010 052 |
| 50 | 10A-1 | 5/8" x 3/8" | 30 | 291 010 053 | 292 010 053 |
| 60 | 12A-1 | 3/4" x 1/2" | 30 | 291 010 054 | 292 010 054 |
| 80 | 16A-1 | 1" x 5/8" | 30 | 291 010 055 | 292 010 055 |
| 35-2 | 06C-2 | 3/8" x 3/16" | 30 | 291 010 056 | 292 010 056 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 30 | 291 010 057 | 292 010 057 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 30 | 291 010 058 | 292 010 058 |
| 60-2 | 12A-2 | 3/4" x 1/2" | 30 | 291 010 059 | 292 010 059 |
| 35-3 | 06C-3 | 3/8" x 3/16" | 30 | 291 010 060 | 292 010 060 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 30 | 291 010 061 | 292 010 061 |





with sprocket wheel type K-L/Type K-S





Spann-Box® size 1 with sprocket is used where space is restricted or there are high chain speeds (> 1m/s).

Applications

- · High chain speeds
- · Small return radii
- · Compensation for high chain elongation

Tensioning pressure

· Heavy spring force

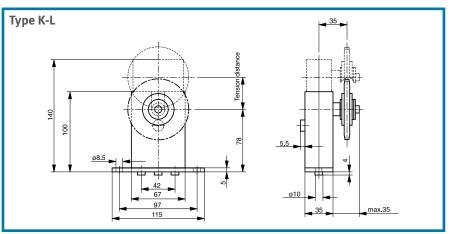
Attachment

- · Easier assembly thanks to mounting bracket
- $\cdot\,$ Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

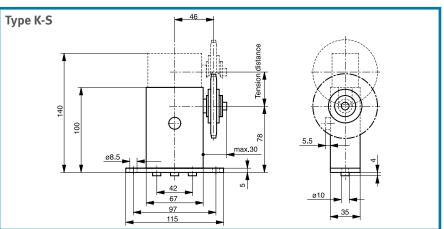
| Chain no. | | Chain dim. in inch | Number of teeth | Article no. Long hou- sing, Heavy tension | Article no. Long hou- sing, Heavy tension |
|-----------|----------|-----------------------|-----------------|--|--|
| ASA/JIS | DIN 8188 | | | force | force, Stainless steel |
| 35 | 06C-1 | 3/8" x 3/16" | 21 | 291 110 062 | 291 110 066 |
| 40 | 08A-1 | 1/2" x 5/16" | 17 | 291 110 063 | 291 110 067 |
| 50 | 10A-1 | 5/8" x 3/8" | 17 | 291 110 064 | 291 110 068 |
| 60 | 12A-1 | 3/4" x 1/2" | 15 | 291 110 065 | 291 110 069 |

Special and stainless steel designs on request









Three tension pressure settings

Like Spann-Box® size 1, Spann-Box® size 2 is available in different variants. The steel housing guarantees durability and reliability.

Reverse operation

If the running direction changes, we recommend using the appropriate Spann-Box® size with a long housing. We deliver this variant with heavy tension force.

| | | Light | Heavy |
|---------------|--------------------|-------------|-------------|
| | 1 released spring | 148 – 82 N | 262 – 118 N |
| Tension force | 2 released springs | 296 – 164 N | 524 – 236 N |
| | 3 released springs | 444 – 246 N | 786 – 354 N |
| | Tension distance | 60 mm | 60 mm |

SPANN-BOX® SIZE 2

with arc segment profile









Tensioning pressure

 $\cdot\,$ Choice of light or heavy spring force

Attachment

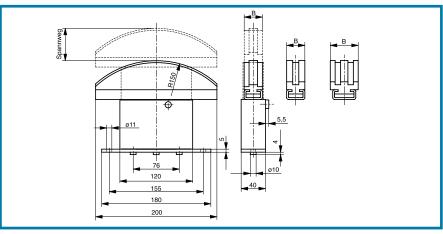
· Easier assembly thanks to mounting bracket

· Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dim. | В | Article no. Long housing, Heavy tension force | Article no. Short housing, Heavy tension force, | Article no. Long housing, Heavy tension force, |
|-----------|----------|---------------|----|--|--|---|
| ASA/JIS | DIN 8188 | | | | Stainless steel | Stainless steel |
| 60 | 12A-1 | 3/4" x 1/2" | 25 | 291 020 202 | 292 020 016 | 292 020 202 |
| 80 | 16A-1 | 1" x 5/8" | 25 | 291 020 204 | 292 020 017 | 292 020 204 |
| 100 | 20A-1 | 1 1/4" x 3/4" | 25 | 291 020 206 | 292 020 018 | 292 020 206 |
| 120 | 24A-1 | 1 1/2" x 1" | 30 | 291 020 208 | 292 020 019 | 292 020 208 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 25 | 291 020 210 | 292 020 020 | 292 020 210 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 25 | 291 020 212 | 292 020 021 | 292 020 212 |
| 60-2 | 12A-2 | 3/4" x 1/2" | 30 | 291 020 214 | 292 020 022 | 292 020 214 |
| 80-2 | 16A-2 | 1" x 5/8" | 40 | 291 020 216 | 292 020 023 | 292 020 216 |
| 100-2 | 20A-2 | 1 1/4" x 3/4" | 50 | 291 020 218 | 292 020 024 | 292 020 218 |
| 120-2 | 24A-2 | 1 1/2" x 1" | 70 | 291 020 220 | 292 020 025 | 292 020 220 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 35 | 291 020 222 | 292 020 026 | 292 020 222 |
| 50-3 | 10A-3 | 5/8" x 3/8" | 45 | 291 020 224 | 292 020 027 | 292 020 224 |
| 60-3 | 12A-3 | 3/4" x 1/2" | 55 | 291 020 226 | 292 020 028 | 292 020 226 |
| 80-3 | 16A-3 | 1" x 5/8" | 70 | 291 020 228 | 292 020 029 | 292 020 228 |
| 100-3 | 20A-3 | 1 1/4" x 3/4" | 85 | 291 020 230 | 292 020 030 | 292 020 230 |

Special designs on request





Clamp dimensions (...) for long housing

with semi-circular profile









Applications

· For restricted installation spaces

Tensioning pressure

· Choice of light or heavy spring force

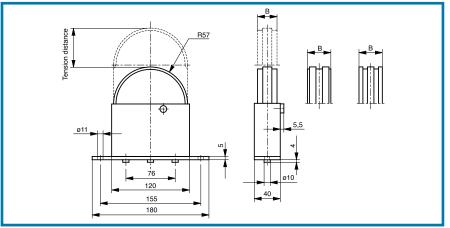
Attachment

- · Easier assembly thanks to mounting bracket
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dim. in inch | В | Article no. Short housing; Light | Article no. Short housing, Heavy | Article no. Long housing, Heavy | Article no. Short housing, Heavy | Article no. Long housing, Heavy |
|-----------|----------|-----------------------|----|----------------------------------|----------------------------------|---------------------------------|-----------------------------------|-----------------------------------|
| ASA/JIS | DIN 8188 | | | tension force | tension force | tension force | tension force, Stainless steel | tension force, Stainless steel |
| 60 | 12A-1 | 3/4" x 1/2" | 33 | 291 020 031 | 291 020 038 | 291 020 232 | 292 020 032 | 292 020 232 |
| 80 | 16A-1 | 1" x 5/8" | 33 | 291 020 032 | 291 020 039 | 291 020 234 | 292 020 034 | 292 020 234 |
| 40-2 | 08A-2 | 1/2" x 5/16" | 33 | 291 020 033 | 291 020 040 | 291 020 236 | 292 020 036 | 292 020 236 |
| 50-2 | 10A-2 | 5/8" x 3/8" | 33 | 291 020 034 | 291 020 041 | 291 020 238 | 292 020 038 | 292 020 238 |
| 60-2 | 12A-2 | 3/4" x 1/2" | 33 | 291 020 035 | 291 020 042 | 291 020 240 | 292 020 040 | 292 020 240 |
| 40-3 | 08A-3 | 1/2" x 5/16" | 35 | 291 020 036 | 291 020 043 | 291 020 242 | 292 020 042 | 292 020 242 |
| 50-3 | 10A-3 | 5/8" x 3/8" | 45 | 291 020 037 | 291 020 044 | 291 020 244 | 292 020 044 | 292 020 244 |

Special designs on request





Clamp dimensions (...) for long housing











With the appropriate installation, the double tension distance length can be used for chain elongation. Further installation examples see page 8.

Tensioning pressure

· Heavy spring force

Attachment

- · Easier assembly thanks to mounting bracket
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

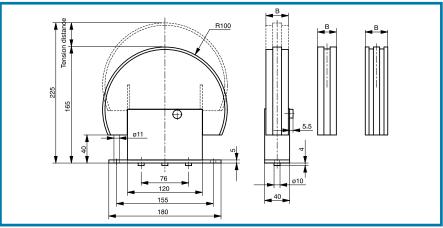






| Chain no. | | Chain dim. in inch | В | Article no. Long hou- sing, Heavy tension | Article no. Long hou- sing, Heavy tension | |
|-----------|----------|-----------------------|----|--|--|--|
| ASA/JIS | DIN 8188 | | | force | force, Stainless steel | |
| 60 | 12A-1 | 3/4" x 1/2" | 33 | 291 020 045 | 292 020 045 | |
| 80 | 16A-1 | 1" x 5/8" | 33 | 291 020 046 | 292 020 046 | |
| 100 | 20A-1 | 1 1/4" x 3/4" | 33 | 291 020 047 | 292 020 047 | |
| 40-2 | 08A-2 | 1/2" x 5/16" | 33 | 291 020 048 | 292 020 048 | |
| 50-2 | 10A-2 | 5/8" x 3/8" | 33 | 291 020 049 | 292 020 049 | |
| 60-2 | 12A-2 | 3/4" x 1/2" | 33 | 291 020 050 | 292 020 050 | |
| 40-3 | 08A-3 | 1/2" x 5/16" | 35 | 291 020 051 | 292 020 051 | |
| 50-3 | 10A-3 | 5/8" x 3/8" | 45 | 291 020 052 | 292 020 052 | |
| 60-3 | 12A-3 | 3/4" x 1/2" | 55 | 291 020 053 | 292 020 053 | |





with block profile



This design is ideally suited for heavy loads. It is intended for use with high dynamic forces.

Design

· Slide profile and tension core made from a single piece

Tensioning pressure

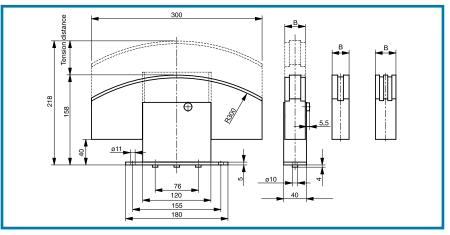
· Heavy spring force

Attachment

- · Easier assembly thanks to mounting bracket
- · Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Chain no. | | Chain dimension in inch | В | Article no. Long hou- sing, Heavy tension | Article no. Long hou- sing, Heavy tension |
|-----------|----------|----------------------------|----|--|--|
| ASA/JIS | DIN 8188 | | | force | force, stainless steel |
| 120 | 24A-1 | 1 1/2" x 1" | 33 | 291 020 054 | 292 020 054 |
| 140 | 28A-1 | 1 3/4" x 1" | 33 | 291 020 055 | 292 020 055 |
| 160 | 32A-1 | 2" x 1 1/4" | 33 | 291 020 056 | 292 020 056 |
| 200 | 40A-1 | 2 1/2" x 1 1/2" | 40 | 291 020 057 | 292 020 057 |
| 80-2 | 16A-2 | 1" x 5/8" | 40 | 291 020 058 | 292 020 058 |
| 100-2 | 20A-2 | 1 1/4" x 3/4" | 50 | 291 020 059 | 292 020 059 |
| 120-2 | 24A-2 | 1 1/2" x 1" | 70 | 291 020 060 | 292 020 060 |
| 80-3 | 16A-3 | 1" x 5/8" | 70 | 291 020 061 | 292 020 061 |
| 100-3 | 20A-3 | 1 1/4" x 3/4" | 85 | 291 020 062 | 292 020 062 |





AUTOMATIC BELT TENSIONERS

Round belts, V-belts as per DIN 2215, or flat belts – they all require different pretensioning. The following Spann-Box®/Spann-Boy® types are available as belt tensioners

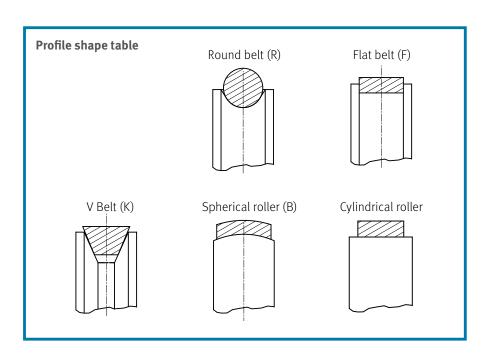
- · Spann-Boy®
- · Spann-Boy®TS
- · Spann-Box® size 0
- · Spann-Box® size 1

Material

We use our tried-and-tested Original Material "S"® Black Antistatic for the ball-bearing supported tensioning roller that is attached to the housing. It is characterized by its excellent wear resistance, ideal slide properties, and very good resistance to chemicals.

Design

Our tensioning rollers come with a cylindrical surface or a profile of your choice. Use the profile shape table to specify the required profile along with the belt type used when you make your order.



| | | Light ten- sion force | Heavy ten- sion force | Tension distance |
|--|--------------------|--------------------------|--------------------------|---------------------|
| Spann-Boy® with roller Spann-Boy® size 0 with roller | 1 released spring | 58 – 32 N | 132 – 60 N | 40 mm |
| Spann-Boy® TS with roller | 1 released spring | 58 – 32 N | 132 – 60 N | 40 mm |
| | 2 released springs | 190 – 96 N | | 40 mm |
| Spann-Box® size 1 Typ SR-0 tensioning roller on top Typ SR-L tensioning roller on long side Typ SR-S tensioning roller on front | 1 released spring | 58 – 32 N | 132 – 60 N | 40 mm |
| | 2 released springs | 116 – 64 N | 264 – 120 N | 40 mm |
| | 3 released springs | 174 – 96 N | 396 – 180 N | 40 mm |





SPANN-BOY® TS AS BELT TENSIONER

with roller





Three tension pressure settings

Tension pressure

· Spann-Boy® TS has one light and one heavy pressure spring that can be released together or separately depending on the required tension pressure.

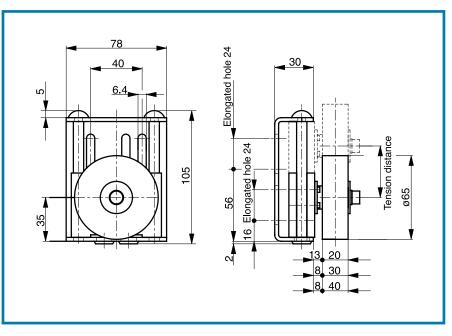
Attachment

· Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

| Roller width mm | Profile shape | Article no. |
|--------------------|---------------|-------------|
| 20 | Cylindrical | 281 160 001 |
| | Spherical | 281 160 004 |
| | Flat belt | 281 160 007 |
| | V-belt | 281 160 010 |
| | Round belt | 281 160 013 |
| 30 | Cylindrical | 281 160 002 |
| | Spherical | 281 160 005 |
| | Flat belt | 281 160 008 |
| | V-belt | 281 160 011 |
| | Round belt | 281 160 014 |
| 40 | Cylindrical | 281 160 003 |
| | Spherical | 281 160 006 |
| | Flat belt | 281 160 009 |
| | V-belt | 281 160 012 |
| | Round belt | 281 160 015 |

 $Special\ and\ stainless\ steel\ designs\ on\ request$





SPANN-BOX® SIZE 0 AS BELT TENSIONER





Design

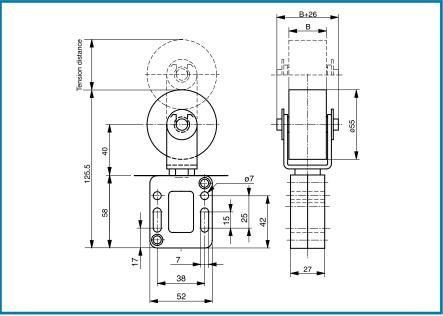
· Corrosion-proof housing

Tensioning pressure

· Choice of light or heavy spring force

| Roller width mm | Profile shape | Light tension force article no. | Heavy tension force article no. |
|--------------------|---------------|---------------------------------|---------------------------------|
| 20 | Cylindrical | 281 100 001 | 281 100 002 |
| | Spherical | 281 100 007 | 281 100 008 |
| | Flat belt | 281 100 013 | 281 100 014 |
| | V-belt | 281 100 019 | 281 100 020 |
| | Round belt | 281 100 025 | 281 100 026 |
| 30 | Cylindrical | 281 100 003 | 281 100 004 |
| | Spherical | 281 100 009 | 281 100 010 |
| | Flat belt | 281 100 015 | 281 100 016 |
| | V-belt | 281 100 021 | 281 100 022 |
| | Round belt | 281 100 027 | 281 100 028 |
| 40 | Cylindrical | 281 100 005 | 281 100 006 |
| | Spherical | 281 100 011 | 281 100 012 |
| | Flat belt | 281 100 017 | 281 100 018 |
| | V-belt | 281 100 023 | 281 100 024 |
| | Round belt | 281 100 029 | 281 100 030 |





SPANN-BOX® SIZE 1 AS BELT TENSIONER

Our tried-and-tested Spann-Box® is ideally suited for use as a belt tensioner. We offer different designs for different scenarios. The variants differ primarily in the mounting of the tensioning roller. The basic design is identical for all variants.

Tensioning pressure

· Choice of light or heavy spring force

Attachment

· Bore holes in the housing (for matching fastening brackets refer to pages 12-13)

SPANN-BOX® SIZE 1

as belt tensioner with roller



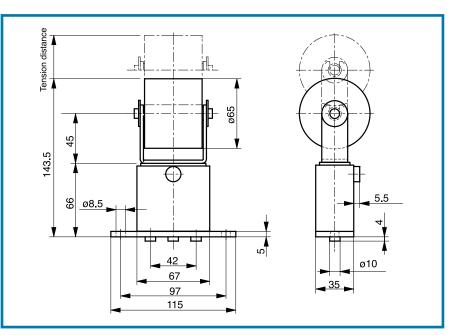




| Roller width mm | Profile shape | Light tension force article no. | Heavy tension force article no. |
|--------------------|---------------|---------------------------------------|---------------------------------------|
| 53 | Cylindrical | 281 110 001 | 281 110 002 |
| | Spherical | 281 110 003 | 281 110 004 |
| | Flat belt | 281 110 005 | 281 110 006 |
| | V-belt | 281 110 007 | 281 110 008 |
| | Round belt | 281 110 009 | 281 110 010 |

Special and stainless steel designs on request





SPANN-BOX® SIZE 1 / TYPE SR-L

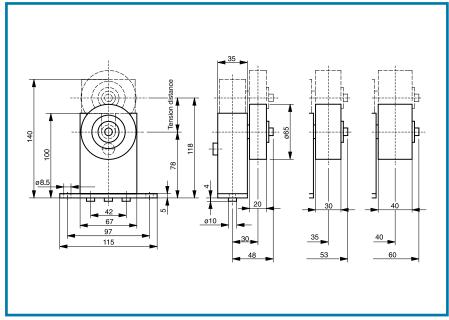




| Roller width mm | Profile shape | Light tension force article no. | Heavy tension force article no. |
|--------------------|---------------|---------------------------------------|---------------------------------------|
| 20 | Cylindrical | 281 110 011 | 281 110 012 |
| | Spherical | 281 110 017 | 281 110 018 |
| | Flat belt | 281 110 023 | 281 110 024 |
| | V-belt | 281 110 029 | 281 110 030 |
| | Round belt | 281 110 035 | 281 110 036 |
| 30 | Cylindrical | 281 110 013 | 281 110 014 |
| | Spherical | 281 110 019 | 281 110 020 |
| | Flat belt | 281 110 025 | 281 110 026 |
| | V-belt | 281 110 031 | 281 110 032 |
| | Round belt | 281 110 037 | 281 110 038 |
| 40 | Cylindrical | 281 110 015 | 281 110 016 |
| | Spherical | 281 110 021 | 281 110 022 |
| | Flat belt | 281 110 027 | 281 110 028 |
| | V-belt | 281 110 033 | 281 110 034 |
| | Round belt | 281 110 039 | 281 110 040 |

Special and stainless steel designs on request





SPANN-BOX® SIZE 1 / TYPE SR-S





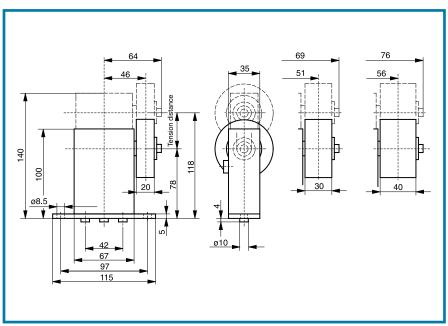




| Roller width mm | Profile shape | Light tension force article no. | Heavy tension force article no. |
|--------------------|---------------|---------------------------------------|---------------------------------------|
| 20 | Cylindrical | 281 110 041 | 281 110 042 |
| | Spherical | 281 110 047 | 281 110 048 |
| | Flat belt | 281 110 053 | 281 110 054 |
| | V-belt | 281 110 059 | 281 110 060 |
| | Round belt | 281 110 065 | 281 110 066 |
| 30 | Cylindrical | 281 110 043 | 281 110 044 |
| | Spherical | 281 110 049 | 281 110 050 |
| | Flat belt | 281 110 055 | 281 110 056 |
| | V-belt | 281 110 061 | 281 110 062 |
| | Round belt | 281 110 067 | 281 110 068 |
| 40 | Cylindrical | 281 110 045 | 281 110 046 |
| | Spherical | 281 110 051 | 281 110 052 |
| | Flat belt | 281 110 057 | 281 110 058 |
| | V-belt | 281 110 063 | 281 110 064 |
| | Round belt | 281 110 069 | 281 110 070 |

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SPECIAL TENSIONERS

The requirements of our customers are diverse. No pool of machinery is the same as another, so the enquiries we receive are often extremely individual. We will do everything possible to meet your demands with our special models. Correct advice is absolutely vital here — it's what makes our components reliable.

A variety of influences

The work conditions must be known in detail in order for the best tensioning

system for your machines to be determined. A host of factors can restrict functionality, such as force effects, chain speed, chain pressure, contamination, and temperature. The use of machinery in problematic temperature ranges can often result in a high risk of malfunction or damage.

This makes it vital for you to receive the best possible advice on the correct choice of material. Please contact our application technology department. We will be glad to work with you to find a custom solution.

technik@murtfeldt.de

Feel free to use also our design questionnaire at www.murtfeldt.com.



Spann-Box® size 2 for use at temperatures of up to 200°C



SPANN

Spann-Box® size 1 for use at temperatures of up to 150°C



Spann-Box® size 30, with mechanical limit switch



The double-tensioner for chain drives with reverse operation. Thanks to the "floating" suspension of the clamping elements, the tension is always applied just where it's needed: On the slack strand.



Spann-Box® size 1 with return profile made of Murinit® SP in accordance with customer's requirements



 $\Omega\text{-tension}$ station for compensation of extensive chain lengthening



Size 1 tension station with roller



Spann-Box® size 1 with arc segment made from Original Material "S"® plus+OIL for an accumulator chain



Spann-Box® size 1 or size 2, tandem tensioner for tensioning chains with extremely large chain pitches







Spann-Box® designs with locking devices; they prevent the slide profile from being compressed when the direction of rotation changes, for example.



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