

# Manual Belt conveyor T19V Version 70500.1

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# Introduction

JEMA AGRO A/S is a modern factory, which specializes in producing and delivering equipment for transport systems for raw or cleaned grain, seeds and granulates.

Our current product range is the result of more than 60 years experience in machine development especially for the agriculture in close collaboration with our customers – and our company is highly regarded in the industry due to the quality and versatility of our products.

JEMA AGRO A/S conveyors and transport systems are compatible with ALL types of dryer- and silo systems.

#### Important!

Please read these instructions carefully before assembly and use.



# **EU Declaration of conformity**

#### The manufacturer:

JEMA AGRO A/S Kløservejen 2, Sahl DK-8850 Bjerringbro Phone +45 86 68 16 55

# Hereby declares that:

Product:	Be
Туре:	T1
Year of production:	20

elt conveyor 19V 006

• Conforms to the Machine directive 2006/42/EF with special reference to the directive appendix 1 regarding major health- and safety regulations regarding construction and production of the machines

#### The following standards have been applied:

EN ISO 12100-1:2005	Basic terminology and methodology
EN ISO 12100-2:2005	Technical principles
EN 1050:1997	Principles for risk assessment

• Is in accordance with EMC-directive 04/108/EF of 15th December 2004 regarding electro-magnetic compatibility.

Director	Jens-Peter Pedersen
Title	Name
04-12-2008	
Date	Signature

# **Conditions of use**

JEMA AGRO A/S belt conveyor T19V has been constructed for transport of grain, granular materials and seed mix.

- The belt conveyors T19V must only be used for the product(s) specified in the contract.
- The electrical connections must only be carried out by a qualified electrician.
- The belt conveyors T19V must be potential adjusted in accordance with the current local regulations
- During installation, maintenance or repair the electric supply to the belt conveyors must be disconnected and secured against accidental reconnection.
- The user manual must be kept / be available in close proximity to the belt conveyor T19V.

# **General information**



### Delivery

The belt conveyor is disassembled for shipment. Standard packing (pallet/wooden boxes, grid boxes, etc.) Regarding the actual transport there are no specific requirements apart from normal consideration.

The shipment includes the parts stated in the order confirmation.

Before installation and use, this manual **must** be read carefully.

### **Storage**

There are no precautions regarding long-time storage.

After delivery the components must be kept in a suitable, dry storage area before installation.

### Noise level

A noise level test was conducted for the belt conveyor. The level has been measured in a distance of 1 m from the conveyor.

During the test the belt conveyor was without any load, which is the operational state of maximum noise level.

The measured noise level is below 70 dB

### Type Plate

The type plated is fitted on the drive station.



### ABC belt system





### **Construction**

The belt conveyor T19V is a modular system, made up of standard elements, which can be combined and easily integrated into all conveyor systems.

The belt conveyor is designed as a U-shaped chute and transports materials such as: grain, seeds, pellets, granulates, etc.

The aim of the design is to obtain a large capacity with small external dimensions, low weight, fast and easy attachment and maximum flexibility.

The belt conveyor T19V can be used for horizontal and slightly inclined transport (max. 6°) and carries the material towards the drive section (1-way transport) or both forward and backwards (2-way transport).

The belt conveyor consists of the following standard modules:

- 1. Drive station
- 2. Extension section
- 3. Tension section
- 4. Discharge section



### <u>Capacity</u>

 
 Density
 T19V (40 m³/h)
 T19V (67 m³/h)

 650 kg/m
 26 t/h
 43 t/h

 700 kg./m
 28 t/h
 47 t/h

 750 kg/m (wheat)
 30 t/h
 50 t/h

The table below shows the various density capacities:

Measured in cleaned, storable material at a power supply of 50 Hz The capacity varies according to the nature of the material.

### <u>Technical specifications – power consumption</u>

Belt conveyor T19V - power consumption in kW:

Model	0-7 m	8-11 m	12-16 m	17-26 m	27-39 m	40-51 m
T19V 30t/h	1,1 kW	1,5 kW	2,2 kW	3,0 kW	4,0 kW	5,5 kW

Model	0-6 m	7-10 m	11-16 m	17-23 m	24-37 m	38-51 m
T19V 50t/h	1,5 kW	2,2 kW	3,0 kW	4,0 kW	5,5 kW	7,5 kW



### Modular system

The belt conveyor T19V is made of standard elements, which can be assembled in a wide range of combinations. The following describes four different conveyors, based upon the same standard elements.

If you later wish to change the belt conveyor T19V, it can be done easily without investing in a completely new belt conveyor, but simply by buying other modules and alter the existing conveyor accordingly. In this case JEMA Agro A/S will be at your disposal with advice and guidance



Assembly sketch module B – two-way transport running on rail



Assembly sketch module C – two-way transport, running on double transport rail





### Drive station

Capacity: 30 - 50 tons per hour.

The drive station is available in 3 sizes, according to the individual needs regarding transport length and capacity.





#### 3. 4k 180x180 mm outlet 50 t/h Reducing piece 4k 125x125 mm 30 t/h

(45 t/h: transport length 15-50 m) (30 t/h: transport length 20-50 m)



### Shortened outlet

Drive station with shortened outlet and double transport rail (transport length max 15 m).





A is used for one-way transport.



B is used for two-way transport. Change the rotation direction for return transport.





C - Tension section with shortened inlet (double transport rail)



### Tensioner

The tensioner is used, when the belt has become slack after extended use. Instead of shortening the belt by cutting and lacing, it is possible to insert the tensioner,

which extends the belt conveyor by 180 mm.

Check that the required space is available, before you start to tension the belt with the tensioner.



### Extension section

The extensions are available in lengths ranging from 0.5 m - 1.0 m - 1.25 - 2.0 m - 2.5 m. By combining these elements, it will be possible to obtain any length with intervals of 0.25 m. If the material must be discharged in one or several places during the transport, a discharge section must be fitted in the required locations. The belt conveyor T19V can also be mounted on suspended sliding rails with a continuous discharge in the driving direction of the rail to both sides of the inlet piece.



### Discharge section

The discharge section only works in one direction. See the fitting instruction for correct assembly.

The discharge section can be adjusted from 30 – 50 tons by changing the outlet trough.

1. Discharge section 30 tons.



1. Discharge section 50 tons.





## <u>Inlet</u>



A Universal inlet, can be used on all systems.



B For one-way transport rails only.



C For two-way transport rails only.

## <u>Trolleys</u>

#### Dual trolley module H



Trolley for INP 100



Trolley for drive- and tension section





### Conveyor belt

The belt cannot be delivered pre-vulcanised The belt must be vulcanised by qualified staff at the customer premises.

Belt quality: Oil resistant, EP 152/2, 3,0+10

See separate section in the manual for belt vulcanisation.

For vulcanisation a special tool can be borrowed from JEMA.



## Scale drawing T19V

	А	в	С	D	Е		F	G	н	1
Drive station I 30 t/h	400	300	500	190	420	22	20 5	500	300	480
Drive station II 50 t/h	200	330	620	520	Max 400	0 40	00	30	550	335
Drive station III 50 t/h	400	300	500	190	420	3	10 5	500	350	624
	J	к	L	M	N	0	Р			
Drive station I 30 t/h	225	450	240	160	-	-	-			

- - -

Drive station I 30 t/h

Drive station II 50 t/h

Drive station III 50 t/h





Drive station II 50 t/h





Drive station III 50 t/h







### Upon receipt

Please check that all parts and components are included in the shipment and check for possible transport damages.

Remember to have all necessary safety equipment available, before installation.

Please read this manual carefully before assembly or installation work begins.

### Warning labels

The belt conveyor is fitted with warning labels.

Warning!

The covers and shields must not be opened or removed, when the machine is working.



### Foundation

Attached in the supporting construction - please see separate manual "double transport rail"

### Lifting equipment

Make sure to have the required SWL-approved lifting equipment/crane, required for the actual job.

The lifting equipment must be approved to carry the load in question. The load capacity for the individual components can be seen under "Parts list T19V" in this manual.

The total weight of machines are indicated in the section "Weight table belt conveyor T19V".



NB: Always make sure that nobody is standing under a suspended load.



## Lifting instructions

The belt conveyor T19V is made out of standard elements. The weight of the individual parts can be seen in the separate weight table.

Make sure to have the required SWL-approved lifting equipment/crane required for the actual job, available.

Max. allowed distance between the lifting points is 8.0 m - see drawing.



# Weight table – individual components T19V

	Description	Part no.	Weight	Description	Part no.	Weight
All's S				Extension 0,5 m	19112	6
				Extension 1,0 m	19111	12
	Drive station I	19100	20	Extension 1,25 m	19110	14,5
				Extension 2,0 m	19108	22
				Extension 2,5 m	19107	27
	Drive station II	19201	27,5	Discharge section without trough	19225	28
	Drive station III	19301	53	Collecting hopper for discharge section 125 x 125	19230	4
	Drive station with shortened outlet	19102	19	Colleting hopper for discharge section 180 x 180	19231	4,5
	Tension section A	19132	17	Clapper hopper, inlet 50 x 50	00201	5,5
	Tension section B	19243	37	Inlet piece	00340	11
	Tension section B with shortened outlet	19244	34	Hopper for inlet piece	00231	3,5

# Assembly



T19V is suspended in the supporting construction – please see separate manual "double transport rail"

#### It is important to read the complete manual carefully before fitting/assembly.

Make sure that there is sufficient space for the work.

#### Remember!

Before starting the assembly work, check that the required safety equipment is available, e.g. work gloves, safety footwear, helmet, safety glasses and a lifeline, if necessary. These parts are not included as standard.

The belt conveyor is assembled in sections that are being attached one by one. Assemble the conveyor with M6 x 20 mm bolts.

- Support or suspend the conveyor for approx. each 4 metres.
- The drive-, tension and discharge sections must be supported in their immediate proximity.

### <u>Attachment</u>

The belt conveyor T19V can also be mounted on a suspended sliding rail INP100. For this purpose special trolleys with ball bearings must be used.

See separate manual "double transport rail".





Trolley for INP 100 for drive- and tension section

## Inlet piece fitting







### Belt fitting

Before fitting the belt, check all lacings and adjust if necessary to get an even passage between the sections.

Afterwards fit the belt in the conveyor.

Sufficient belt length:  $2 \times 10^{-1}$  x the length of the extension- and discharge sections +  $2 \times 10^{-1}$  m.

#### Remember!

In drive station II and III the belt must be fitted above the small lifting roller.

In the tension section the belt must be fitted above the small flat steel bar that functions as additional support among the tension turnbuckles.

Loosen the tension section completely.

Tools for belt assembly / vulcanisation can be borrowed from JEMA AGRO.

#### Important

After vulcanizing, while the belt is running, the supplied talcum powder is to be distributed on the upper and lower belt.



## Belt lacing











Manually pull the complete belt end over the cut off belt end as tightly as possible in order to obtain the required pretension of the belt before the lacing.Subsequently cut off the complete belt end in accordance with below measurements.Transport lengthDistance measured at belt edge5,0 m10,0 m10,0 m15,0 m20,0 m25,0 m30,0 m30,0 m30,0 m30,0 m30,0 m30,0 m30,0 m30,0 m		Description
Transport length         Distance measured at belt edge           5,0 m         3,0 cm           10,0 m         6,0 cm           15,0 m         12,0 cm           20,0 m         20,0 cm           25.0 m         30,0 cm           30,0 m         30,0 cm		Manually pull the complete belt end over the cut off belt end as tightly as possible in order to obtain the required pretension of the belt before the lacing. Subsequently cut off the complete belt end in accordance with below measurements.
5,0 m       3,0 cm         10,0 m       6,0 cm         15,0 m       12,0 cm         20,0 m       20,0 cm         25.0 m       25.0 cm         30,0 m       30,0 cm	Transport length D	istance measured at belt edge
35,0 cm 50,0 m 35,0 cm	5,0 m 10,0 m 15,0 m 20,0 m 25.0 m 30,0 m 35,0 m 50,0 m	3,0 cm 6,0 cm 12,0 cm 20,0 cm 25.0 cm 30,0 cm 35,0 cm 35,0 cm

	Description
	Mark out the back of the latest cut off belt end, then cut it and pull off the layers.
5075ku	



Description
Grind off the stepped belt surfaces to make them even.

Description
Adjust the belt so the layers are opposite each other, the belt is aligned longitudinally and the connecting edge is parallel. Secure the belt ends and prepare for gluing.











### Belt tightening

After removal of the glue tool, the belt must be tightened and tested.

Adjust the belt, so it runs straight in the centre of the extension section by using the tension spindle.

Adjust any of the discharge sections if necessary, so the scraper plates apply a light and even pressure across the belt.

Secure the locking screws with the counter nuts





### Scraper fitting

Fit the scraper in the drive stations. If tension section B is being used, it has to be fitted with scraper as well. Place the scraper in the lower box with the scraper part resting on the belt and the point facing the drive station. Gently pull in the scraper, until it reaches the stop plate, retract it 5 mm and secure it with bracket, screwed through the back.



### Motor

Electrical connections must be carried out by a qualified electrician.

Place the engine vertically on the support with the pulleys in parallel, and then secure the engine bolts.

NOTE! Do not use tools to force the pulleys on the discs.





### Speed monitor

Fit the roller sensor for speed control in any location along the full length of the machine.



Normally the speed monitor will be assembled and adjusted from the factory. For later adjustment there must be a distance between the sensor area on the wheel and the sensor of min. 0.5 mm and max. 2 mm.

Fit the roller sensor in the return channel with the angle bracket secured above and below the return channel.

#### Upstart with relay control:

Start the system and carefully adjust the relay control switch down, until the operating current is disconnected and the belt stops.

Then adjust the switch approx. 5% up to obtain a safety margin.

The lowest level corresponds to approx. 2.6 m/sec. and the highest to approx. 0.13 m/sec. In case of problems, check that the blue wire on the sensor is correctly connected to no. 7 on the electric unit.

For systems with PLC control the above setting is pre-programmed in the PLC.



Location of bottoms under the brown plastic lid on the relay





## Potential equalization

The potential equalization must be carried out in accordance with current regulations.

A label on the belt conveyor indicates the point of the belt conveyor potential equalization. This is very important to make sure that the machine is metallically connected.

The label indicates the potential equalization point for the belt conveyor.



During assembly at least one bolt must have tooth discs on both sides (see drawing).



### Suspension and attachment

In order to obtain the maximum stability, it is important to attach the belt conveyor immediately after the drive- and tension section, and then for each 6.0 m. Please see the separate "Double transport rail" before attachment.

Regarding the attachment of the belt conveyor, there are various possibilities – see drawings below.





### <u>Attachment</u>

Wire suspension can be fitted in order to support and stiffen the belt.

Double wire suspension kit, part no. 19850:



Pos.	Description	Quantity
1	Wire thimble for 5 mm wire	4
2	Wire rope clips for 5 mm wire	12
3	Wire 5 mm	31 m
4	Wire suspension open eye type, hook 10 mm	2
5	Bolt bags for wire suspension kit (screw, nut and disc)	8
6	Bracket	4
7	Triangle with bracket for wire suspension kit	2

Double wire suspension kit with side guide, part no. 19859:



Pos.	Description	Quantity
1	Wire thimble for 5 mm wire	8
2	Wire rope clips for 5 mm wire	24
3	Wire 5 mm	64 m
4	Wire suspension open eye type, hook 10 mm	4
5	Bolt bags for wire suspension kit (screw, nut and disc)	8
6	Bracket	4
7	Triangle with bracket for wire suspension kit	2
8	Side guide for wire suspension kit (incl. 4 screws, discs and nuts)	2



Wire suspension kit single, part no. 19849:



Pos.	Description	Quantity
1	Wire thimble for 5 mm wire	4
2	Wire rope clips for 5 mm wire	12
3	Wire 5 mm	21 m
4	Wire suspension open eye type, hook 10 mm	2
5	Bolt bags for wire suspension kit (screw, nut and disc)	6
6	Bracket	4
7	Triangle with bracket for wire suspension kit	1

Wire suspension kit single with side guide, part no. 19858:



Pos.	Description	Quantity
1	Wire thimble for 5 mm wire	8
2	Wire rope clips for 5 mm wire	24
3	Wire 5 mm	44 m
4	Wire suspension open eye type, hook 10 mm	4
5	Bolt bags for wire suspension kit (screw, nut and disc)	6
6	Bracket	4
7	Triangle with bracket for wire suspension kit	1
8	Side guide for wire suspension kit (incl. 2 screws, discs and nuts)	1



### Starting up

Before starting to work with the belt conveyor, please check the following:

- Nobody is working on or near the machine.
- The motor rotation direction is correct.
- All conveyor bolts are correctly fitted and tightened.
- The belt is correctly fitted and adjusted.

### Belt conveyor stops – fault finding

If the belt looses speed, and the speed monitor cuts off the entire system, check whether the belt is sufficiently tightened and adjust if necessary. The belt tension is correct, if the belt starts up immediately at full speed.

If tightening and adjustment does not help, the pulleys may have become to slack and have to be retightened.

In case of stops, check first whether the conveyor is able to start again, when the relay has gone cold. If yes, the fault is either caused by too low adjustment of the relay or lack of motor capacity.

If the conveyor is still not able to start without unloading the material, check whether the drain system has been blocked.

# Maintenance

Please see the maintenance summary and the attached supplier documentation for cleaning- and maintenance intervals.

#### Warning!

- During cleaning and maintenance work, the electric supply for the belt conveyor must be disconnected and secured against accidental reconnection.
- After repair and maintenance the inspection doors and shields must be refitted, before the work is continued.

#### Always use original parts only

In case that original parts are not used, the warranty becomes void, and JEMA AGRO A/S can no longer be held liable for the EU Declaration of conformity.

### **Pulleys**

Check the belt tension at least once every year and retighten if necessary. Please see the attached maintenance survey.

Also check the condition of the belts and replace in case of cracks on the side of the belt.

#### NB:

New and old pulleys cannot be used together as a set.

### Motor

Bearing noise from the motor: please see the attached supplier documentation.

Motor inspection: please see the attached supplier documentation.

Retorque the motor as indicated in the maintenance summary. Please see the assembly guidance for instructions.

### Bearings

Check the bearings for wear/play, and lubricate as described in the separate maintenance summary.

Check for wear/play by lifting up the shaft and control manually.



### Speed monitor

Check the speed monitor according to the maintenance summary.



### Leaks

All leaks must be repaired immediately.

### Noise and vibrations

Stop the belt conveyor immediately and identify the problem.

# Disposal

The methods of disposal must comply with the current local regulations

#### Warning!

The electric supply to the motor must be disconnected during the disassembly.

Disassemble the conveyor on the floor, if space allows, following the reverse order of the assembly procedure.

If the belt conveyor is disassembled at the premises, start by detaching the motor. The belt may be removed by cutting through the vulcanisation, which should then be removed and rolled up. Remove the drive- and tension section. Finally detach all extensions.

The belt conveyor contains various parts that can be reused. All metal parts should be delivered to a recycle industry.

# **Options/accessories**

### Outlet plate for shortened drive-/tension section



### Cover for forward flow

The cover is available in lengths of 1 m or 2 m.

## Cover for forward/return flow

The cover is available in lengths of 1 m or 2 m.





## Discharge section





## Speed monitor

In order to monitor the correct function of the belt, fit a speed monitor that will cut off the entire system, if the belt looses speed.



## Parts T19V





## Parts list T19V

Pos.	Description	30t/h	45t/h	kg
1	Drive ststion I	19100		20
1	Drive station I without parts	19020		11,5
2	Bearing with flange UCF/PFL 205 25mm	85100	85100	0,3
3	Bearing plate for drive station I	19022		0,5
4	Drive drum diam. 120 for drive station I	19021		5,0
5	Spacer bush T19V for drive station I og II	19078	19078	0,05
6	Rubber for scraper	19018	19018	0,07
7	Inspection door for drive station I II III	19074	19074	0,2
8	Drive station II	19201	19201	27,5
8	Drive station II without parts	19044	19044	14,0
9	Bearing plate for drive station II	19042	19042	0,7
10	Drive drum diam. 200 for drive station II	19043	19043	8,0
11	Circlip M20 ext.	87020	87020	
12	Ball bearing 6204-2RS	85007	85007	0,2
13	Bearing tube for lifting roller drive station II	19046	19046	0,8
14	Shaft for lifting roller drive station II	19047	19047	0,6
15	Drive station III	19301	19301	53,0
15	Drive station III without parts	19052	19052	16,0
16	Bearing UCF 206, 30 mm with flange	85130	85130	1,3
17	Bearing plate for drive station III,	19050	19050	3,1
18	Drive drum diam. 300 for drive station III	19049	19049	12,0
19	Spacer bush Ø30/26x31 mm for drive station III	19165-6	19165-6	0,05
20	Ball bearing 6305 RS	85011	85011	0,2
21	Shaft for lifting roller drive station III	19053	19053	1,7
22	Bearing tube for lifting roller drive station III	19054	19054	2,3
23	Bearing plate drive station III Chain side	19051	19051	3,1
24	Sprocket simplex 19 Z 5/8" diam. 25	83030	83030	1,0
25	Sprocket simplex 38 Z 5/8" diam. 30	83035	83035	3,3
26	Chain 5/8" simplex 0,85 m	87110	87110	0,9
27	Guard for drive station III	19056	19056	2,4
28	Non friction roller for simplex diam. 50x40x019 drive station III	91500	91500	0,06
29	Arm for chain tensioner drive station III	19057	19057	0,3
30	Spring diam. 1,5 x 100 for drive station III	87230	87230	
31	Engine support, small for drive station I og II	20006	20006	2,4
31	Engine support, large for drivestation III	51068	51068	3,2



## Parts list T19V

Pos.	Description	30t/h	45t/h	kg
32	Inner guard for drive station I	19023-2		2,6
32	Inner guard for drive station II	19041-1	19041-1	3,3
32	Inner guard for drive station III	19048-2	19048-2	2,7
33	Pulley A355 2 grooves diam. 25	82106		8,2
33	Pulley A450 3 gr. diam.25	82174	82174	15,2
33	Pulley A355 4 gr. diam. 25	82234	82234	16,7
34	Pulley A63 2 gr. diam.24	82080		0,7
34	Pulley A63 3 gr. diam.28	82176		0,8
34	Pulley A63 4 gr. diam.28	82240		0,9
34	Pulley A71 4 gr. diam.38	82179		1,4
34	Pulley A75 3 gr. diam.24		82146	1,3
34	Pulley A75 3 gr. diam.28		82178	1,2
34	Pulley A75 4 gr. diam.28		82242	1,3
34	Pulley A75 4 gr. diam.38		82258	1,3
35	Pulley AX 57	84257		0,07
35	Pulley AX 68	84268	84268	0,09
35	Pulley AX 65	84265	84265	0,08
35	Pulley AX 70		84270	0,1
36	Outer guard for drive station I	19023-1		3,5
36	Outer guard for drive station II	19041-2	19041-2	4,5
36	Outer guard for drive station III	19048-1	19048-1	4,1
37	Extension 0,5 m without belt	19112	19112	6
37	Extension 1,0 m without belt	19111	19111	12
37	Extension 1,25 m without belt	19110	19110	14,5
37	Extension 2,0 m without belt	19108	19108	22
37	Extension 2,5 m without belt	19107	19107	27
38	Guard for tension section A	19071	19071	4,3
39	Bearing UCFL 206, 30 mm with oval cast iron flange	85106	85106	1,2
40	Tension cylinder diam. 120 diam.30 shaft for tension section A	19133	19133	4,8
41	Side plate with nut for tension section A	19132-1	19132-1	0,6
42	Threaded rod for tension spindle tension section A	19029-1	19029-1	0,9
43	Tension section A	19132	19132	16,8
43	Console for tension section A	19028	19028	1,5
44	Tension section B	19243	19243	37,0
44	Housing for tension section B	19035	19035	11,8

## Parts list T19V

Pos.	Description	30t/h	45t/h	kg
45	Support rail for tension section B	19019	19019	0,5
46	Inspection door for tension section B	19092	19092	1,2
47	Tension spindle with console for tension section B	19026	19026	2,5
48	Scraper housing for tension section B	19034	19034	5,3
49	Reduction piece 180-125	00135	00135	1,4
50	Discharge unit without hopper and belt	19225	19225	28,0
51	Spring for discharge unit 1x12,5x35x8V	87225	87225	0,3
52	Scraper plate for discharge unit	19068	19068	2,0
53	Non friction scraper for discharge unit	91550	91550	0,05
54	Collecting hopper for discharge unit	19230		3,4
55	Collecting hopper for discharge unit		19231	4,4
56	Scraper with bracket for return belt	19080	19080	2,0
57	Roller sensor with bracket for speed monitor 2 terminals	88018	88018	2,3
57	Roller sensor with bracket for speed monitor 3 terminals	88025	88025	2,3
58	Cover 1 m for forward flow	19126	19126	1,9
58	Cover 2 m for forward flow	19127	19127	3,9
59	Cover 1 m for forward and return flow	19128	19128	5,5
59	Cover 2 m for forward and return flow	19129	19129	10,4
60	Tension spindle	19026	19026	2,44
61	Bush dia. 14/18x42 mm	19058	19058	0,03
62	Lifting roller compl. for drive station II	19045	19045	1,5
63	Lifting roller compl. for drive station III	19055	19055	4,3
64	Key 8x7x30 mm	87079	87079	0,02

When ordering parts, please state the spare part number



# Parts T19V – Speed monitor



Pos.	Description	30-45t/h
1	Bearing bracket for roller sensor	19038
2	Bracket for roller sensor	19037
3	Brass bushes	87293
4	Circlip M15 ext.	87015
5	Arm for roller sensor	19040
6	Inductive proximity sensor (2 terminals)	88075
6	Inductive proximity sensor (3 terminals)	88079
7	Roller for speed monitor	19039
8	Ball bearing	85006
9	Steel set screw	86090
10	Nut	86602

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