INSTRUCTION MANUAL

DOUBLE PULLER - DESEEDER

MODEL U28

UNION FLAX MACHINES
Nijverheidstraat 134 B-8791 Beveren-leie Tel.: 0032 (0) 56 71 24 71 Fax: 0032 (0) 56 70 44 64
BE B.T.W.: 405 447 825 GB 285-0436151-68 KB 463-6106291-21 BBL 385-0140479-86

Index

1. Technical data

1.1 General

	Volume	Oil type	To change after
Oil tank	180 l	ISO 68	4 seasons
Reductor on pulling element	1,5 l	SAE 80W90	One year
Pinion box pulling element	25 l	SAE 80W90	4 seasons
Deutz engine	18 l	15 W 40	One year
Fuel tank	380 l		

1.2 Oil filters

	type	To change after
Return filter on oil tank	Tanktopfilter	One year
filter on linde pump drive	Linde	One year
filter on Linde pump pulling element	Linde	One year
Oil filter on Deutz engine	01174420	One year
Fuel filter on Deutz engine	01180597	One year

1.3 Tires

	type	Pressure
Front tires	Trelleborg 500/60x22	3,0 bar
Rear tires	Trelleborg 500/60x26,5	3,0 bar

1.4 Pressure of crushing rolls

Pressure	Pneumatic
± 170 kg	2,0 bar
± 225 kg	2,5 bar
± 300 kg	3,0 bar
± 350 kg	3,5 bar
± 400 kg	4,0 bar
± 450 kg	4,5 bar
± 500 kg	5 bar = Max. Authorised pressure

1.5 General information

Engine	BF6L913F	
Engine power	187 HP at 2500 rpm	
Road speed	0 - 35 km/h	
Field speed	0 - 15 km/h	
Total weight	10275 kg	
Wheel base	1500 mm	
Dimensions	**Length**	9560 mm
	Width	3740 mm
	Height	3600 mm

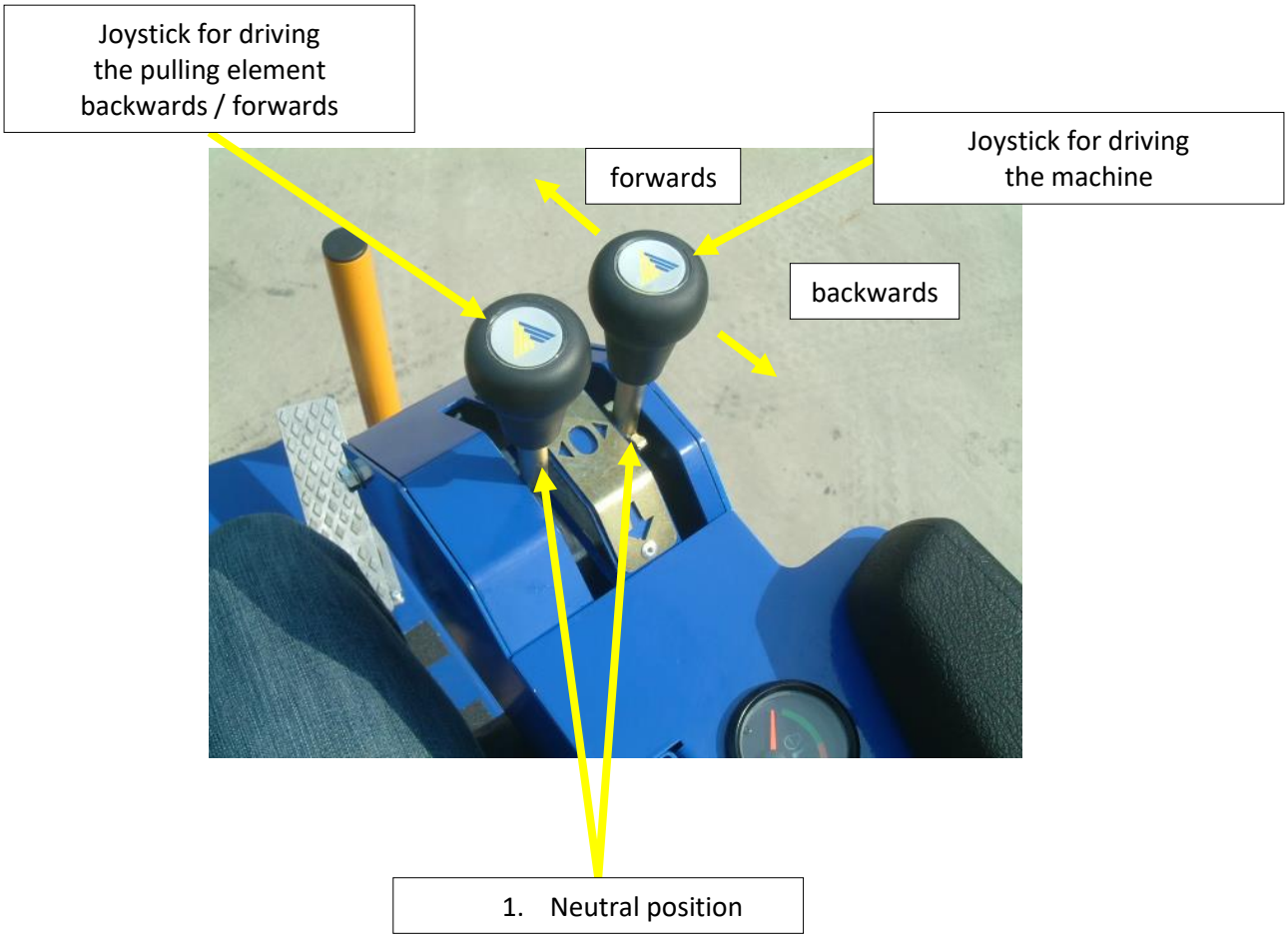
Never drive the machine with passengers on board!

2. Driving the machine

After completing the daily check-up list you can start the engine / machine.

A) Start the engine

1. Pull the 2 joysticks in neutral position (see picture 1)
2. Turn the ignition key until the engine starts (see picture 2)



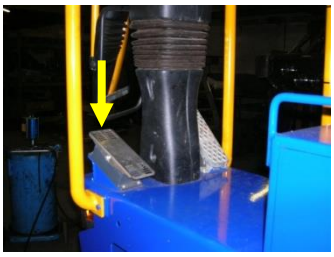
Picture 1

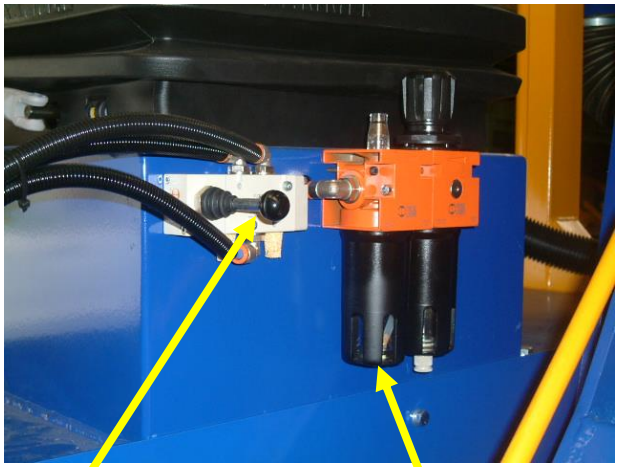
B) Driving on the field & pulling

1. Pull the 2 joysticks in neutral position

2. Gently push the 2 joysticks together forwards while gently accelerating.

3. Drop the pulling element at the height for pulling the flax.




Crushing rolls up / down
Installing pneumatic pressure of the crushing rolls for the feed.

Picture 2

3. Daily check-up list

	☑
Check up oil level oil tank (see picture 10)	
Check up oil level Deutz engine	
Check up oil leakages under the machine	
Check up tire pressure	
Check up turbine fan engine	

4. Weekly check-up list

	☑
Check up greasing points (see chapter 5: Greasing points)	
Check up front wheel axles	
Check up air filter	
Check up steering axle and rod ends	

Donaldson recommends to service Air Filters by monitoring the airflow restriction levels in the air intake system

Some vehicle owners and maintenance supervisors, concerned with lowering their operating costs, clean and reuse their heavy-duty air filter.

Factors to consider before you decide whether cleaning or washing of air filters is appropriate for your vehicle or fleet:

• Heavy-duty air filter manufacturers do not recommend any type of cleaning process be used on their products. Donaldson, like other heavy-duty air filter manufacturers, does not warrant the air filter once it has been cleaned.

• Damaged filters should not be cleaned or reused. If the filter is damaged in service, investigate the source of damage and make corrections to avoid future damage.

• Never attempt to clean a safety element. Replace it after three main element services.

• Rather than cleaning or reusing filters, consider upgrading to an extended service filter and service the filter by restriction indicators. Donaldson recommends, when the specified maximum service limits are reached, to follow the proper service procedures and replace the used filter with a new Donaldson filter. Dispose of the used filter in a responsible manner.

Filter dirt holding capacity is reduced 20-40% with each cleaning.

There is a risk of dirt reaching the clean side of the filter while cleaning, plus possible filter damage from high pressure water or compressed air, makes cleaning or washing a gamble. Add the cost of cleaning to the danger of filter damage when determining the risk versus the value of filter cleaning process. Reuse of cleaned heavy duty filters increases the likelihood of improper air cleaner servicing because of the shortened service life. Each time the air intake system is serviced, it is exposed to the possibility of contamination.

What is a Hole and What is a False Alarm?

Donaldson receives filters for inspection each year that customers believe have developed holes. Upon inspection and testing in our labs, most of these suspect filters prove to have no holes or leaks. Most often these filters have areas with low dust buildup where light comes through the media when inspected with a light inside the filter, but in fact the filter functions perfectly.

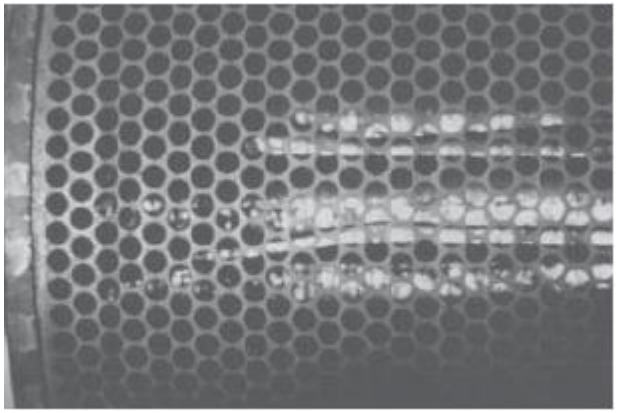
How do you tell the difference between a hole and low dust buildup?

The problem is that normal dust buildup shuts out light completely, while low dust buildup permits light to shine through the media. The contrast is significant and therefore looks like a crack or hole in the media. The contrast between a leak and low dust buildup is not as pronounced, which accounts for mis-identifications.

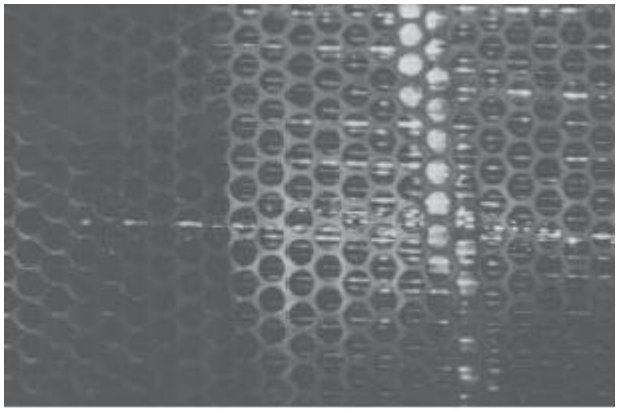
The deceiving low dust areas appear most often at the fold or at the adhesive beading present on some filters.

The secret to identifying a hole in the filter is to realize that when a hole is present you actually see the bright lamp filament shining through the hole, while low dust buildup is merely a bright area where the media is folded and not covered with dust.

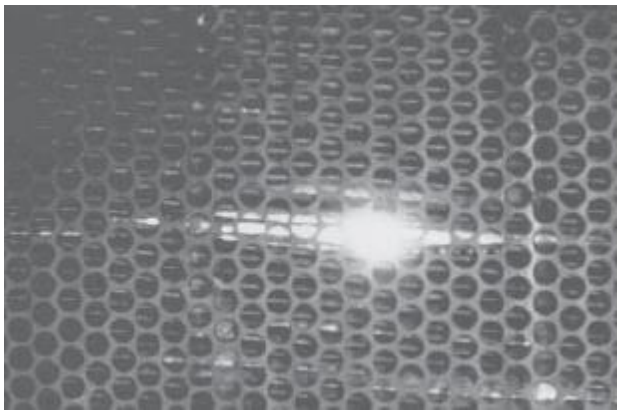
Another basic sign of a hole is dust on the liner or endcap of the clean air side of the filter. If there is no sign of dust on the clean-side liner of the filter you can be quite sure that there is no leak in the filter.



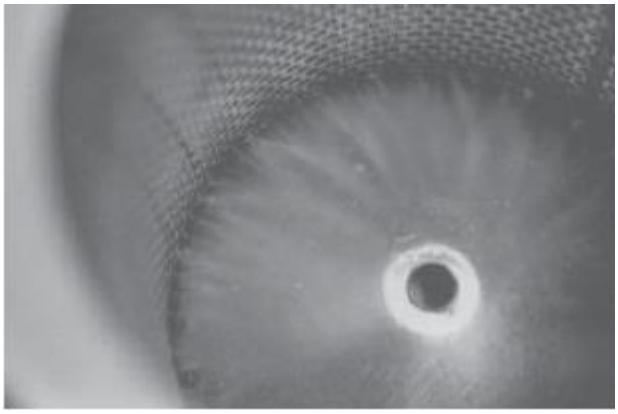
On this photo, it is apparent that the filter has low dust buildup on the pleats or folds, but is functioning efficiently - no holes, no leaks.



Here, light is coming through the adhesive beaded area as well as at the folds. Again no holes, no leaks.



As you look at the photo on the left, you can see it shows a hole in the media. The other light areas are not holes, but rather more low dust areas on the adhesive beading, which is used for pleat spacing.



In this last example, there are obvious dust trails on the liner or endcap of the clean air side of the filter. A dust trail usually indicates a leak.

1 Don't Remove Filter for Inspection

Such a check will always do more harm than good. Ridges of dirt on the gasket sealing surface can drop on the clean filter side when the gasket is released. Stick with the regular maintenance schedule, or, if you service by restriction, believe the gauge or restriction indicator. Get a new indicator if you don't trust your current one.

2 Never Rap a Filter to Clean It

Rapping hard enough to knock off dust damages the filter and destroys your engine protection. Deeply embedded dirt is never released by tapping. It is always safer to keep operating until you can change to a new filter.

3 Never Judge the Filters Life by looking at it. Measure the Airflow Restriction

A dirty-looking filter may still have plenty of life left, while carbon contamination may not be visible to the eye. You can't see the dirt that's embedded deep within the filter paper. Your best bet for lowest filter maintenance costs and best engine protection is to follow a restriction indicator. It's a smart, low-cost investment.

4 Never Leave an Air Cleaner open longer than necessary

Your open air cleaner is a direct entry to the engine! Keep it protected during filter changes. Contaminants smaller than we can see will cause damage to a diesel engine. If the housing is not going to be reassembled immediately, cover the opening. The only way to be sure nothing got in, is to make sure nothing can get in.

5 Don't Ignore a Worn or Damaged Gasket in the Housing

If your air cleaner has a cover gasket, replace it with a new one. Always check to be sure that no piece of the old gasket remains in the housing and that the gasket is not worn. If your filter model calls for a new gasket with each use, never reuse the old one.

6 Don't Use a Damaged or Bunched Filter

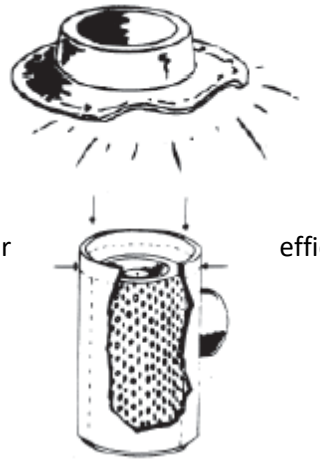
Never install a dented or punctured filter because it cannot protect properly against contamination. A dent can make a firm seal impossible or can indicate damaged media. A filter with bunched pleats saps engine power and fuel euros.

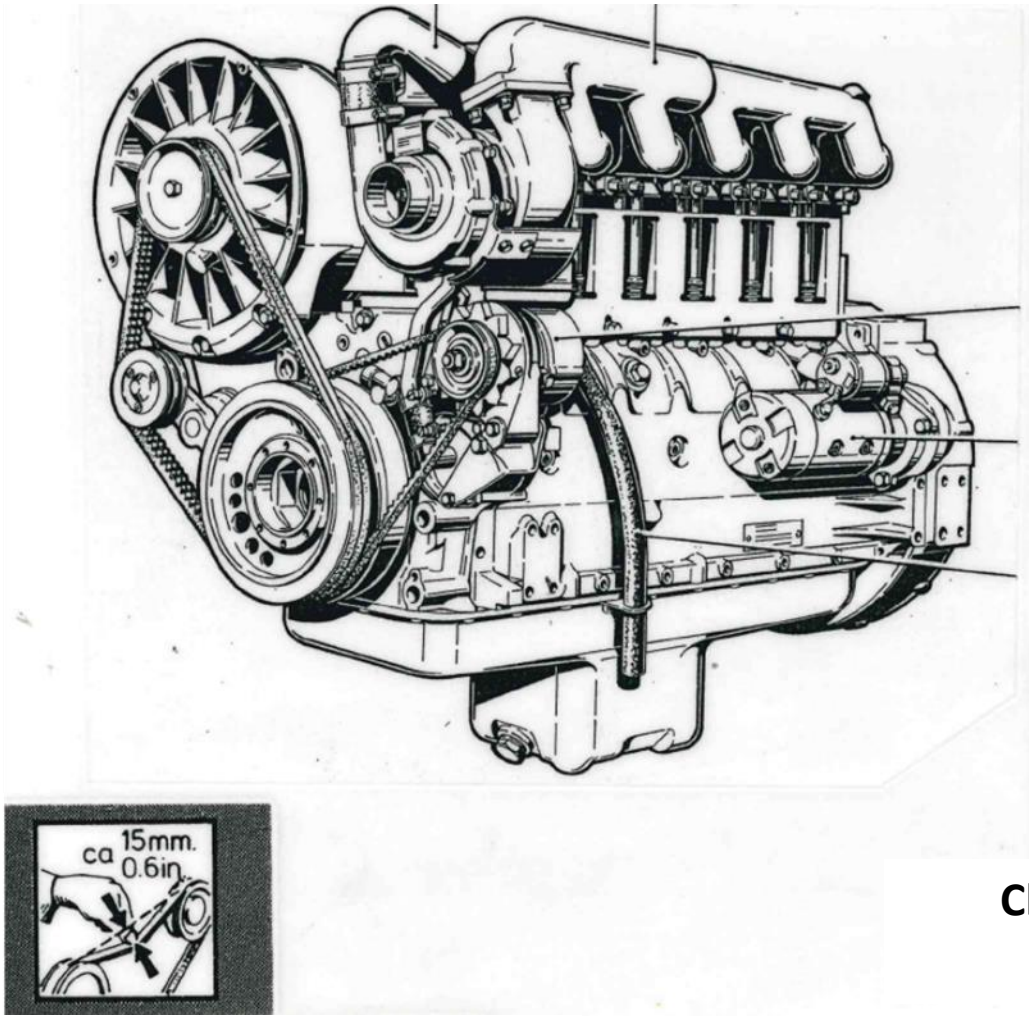
7 Replace Missing or Damaged Parts

Check to ensure that there is no damage to the air cleaner housing that could cause a leak. Replace any missing or damaged Vacuator Valves and air cleaner fasteners. Never attempt to repair a damaged filter.

8 Never Substitute an Incorrect Filter Model Number

Filters may look almost identical, but even a fraction of a mm difference in size can prevent a good seal or affect airflow. Selecting a filter by size may give you the wrong media area and grade and therefore affect service life and filter efficiency.!





Change oil:

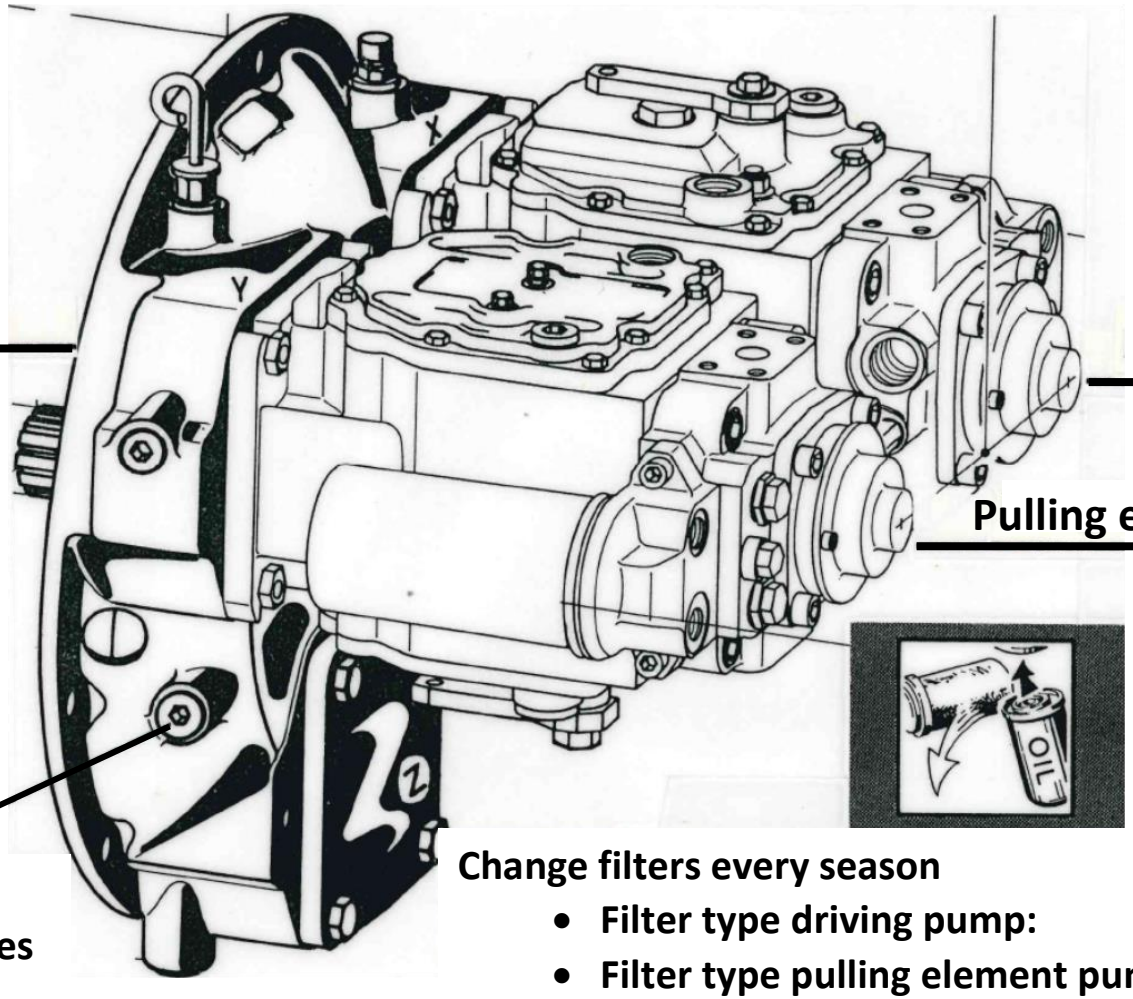
- **After the first 100 working hours**
- **Before every season**
- **Quantity: 16 litres**
- **Oil type: 15W40**

Check oil level daily

Check belt tension daily

Picture 3

Pinion box



Driving pump

Pulling element pump

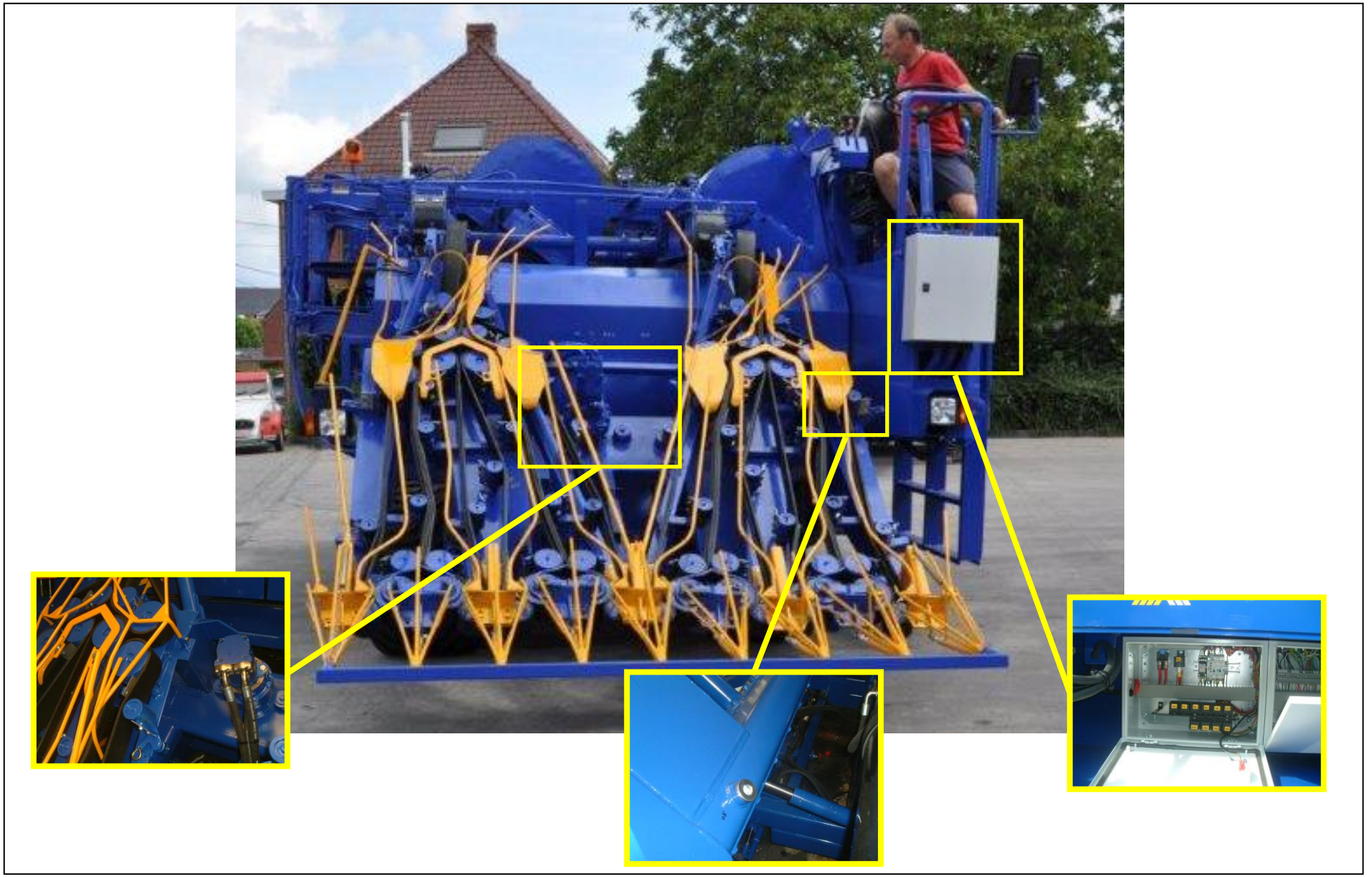
Check oil level every season

- Quantity: 1,2 litres
- Oil type: SAE90

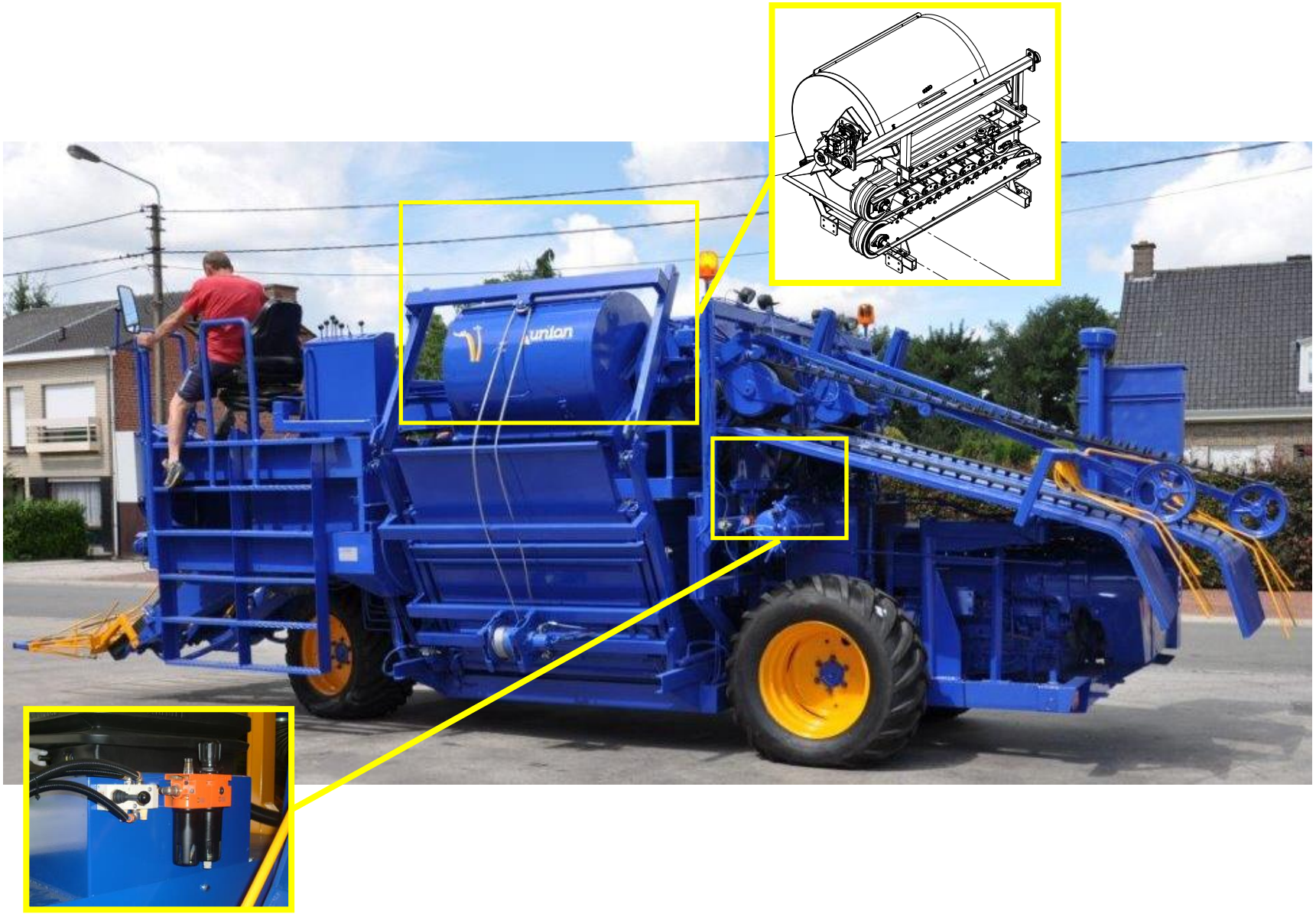
Change filters every season

- Filter type driving pump: WD 724/3 Mann
- Filter type pulling element pump: WD 950/2 Mann

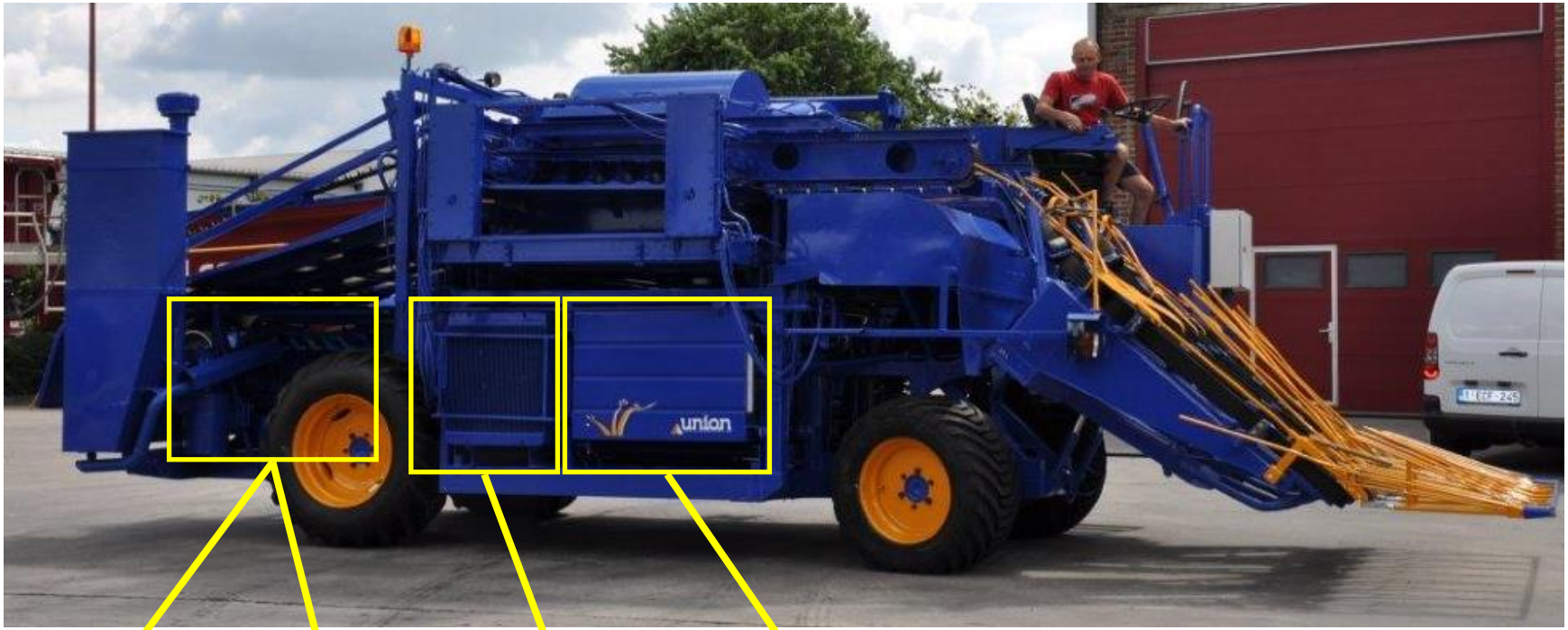
Picture 4



Picture 5



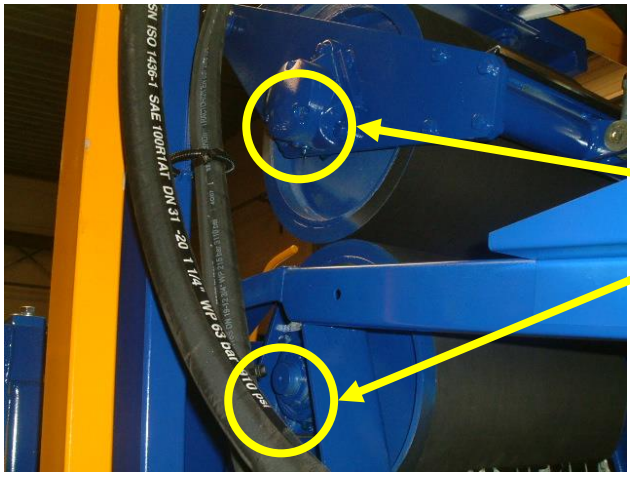
Picture 6



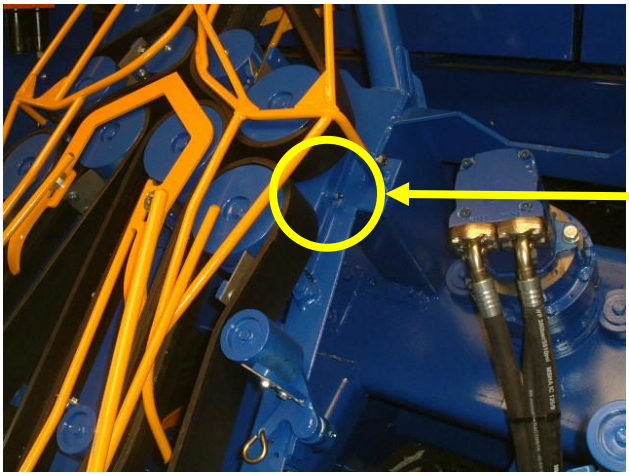
Picture 7

5. Greasing points

Picture 8

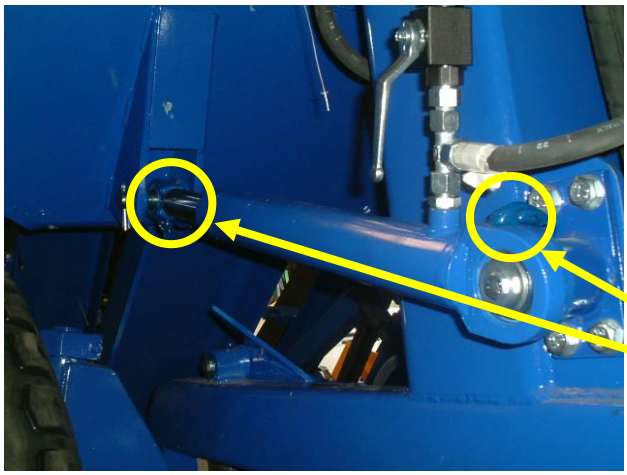


Picture 9



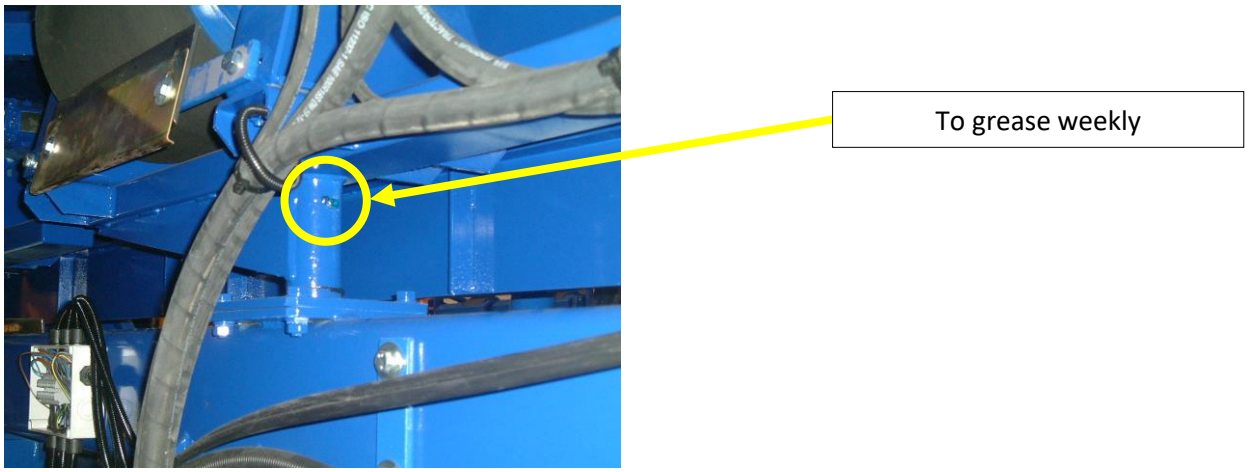
Picture 10

Picture 11

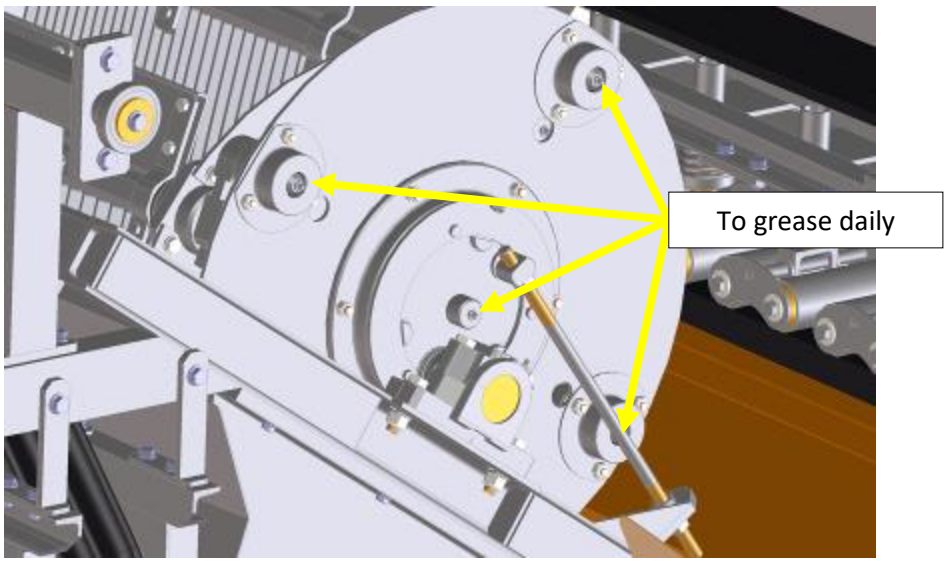


Picture 12

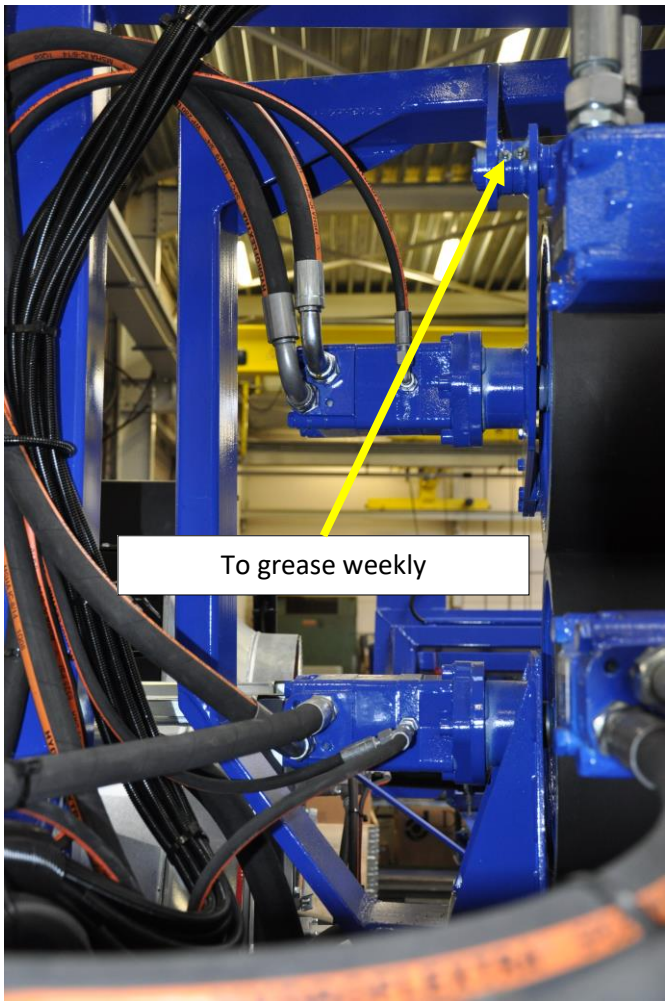
Picture 13

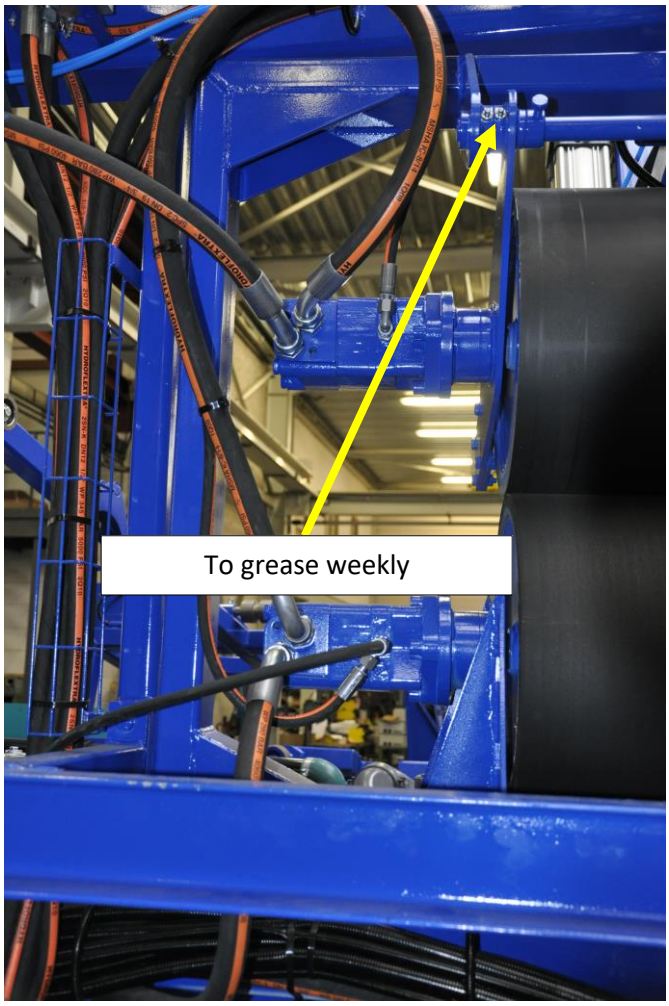


Picture 14

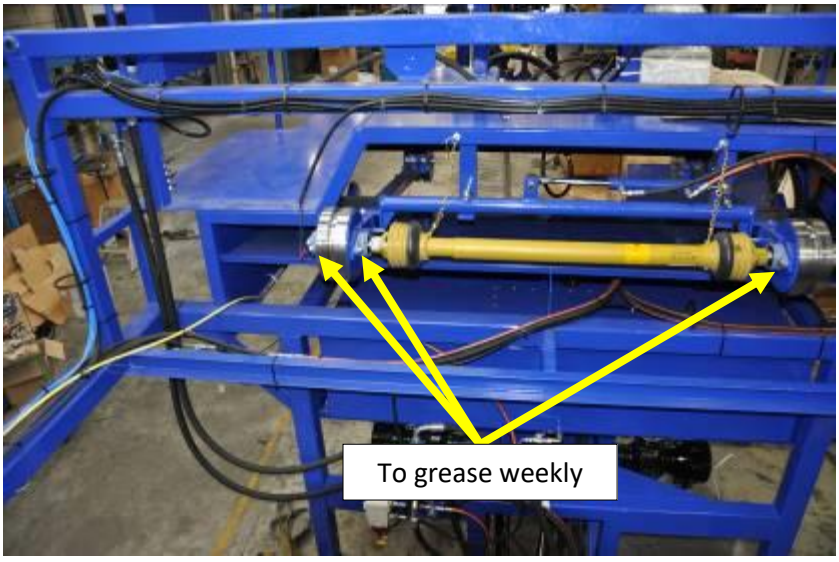


Picture 15

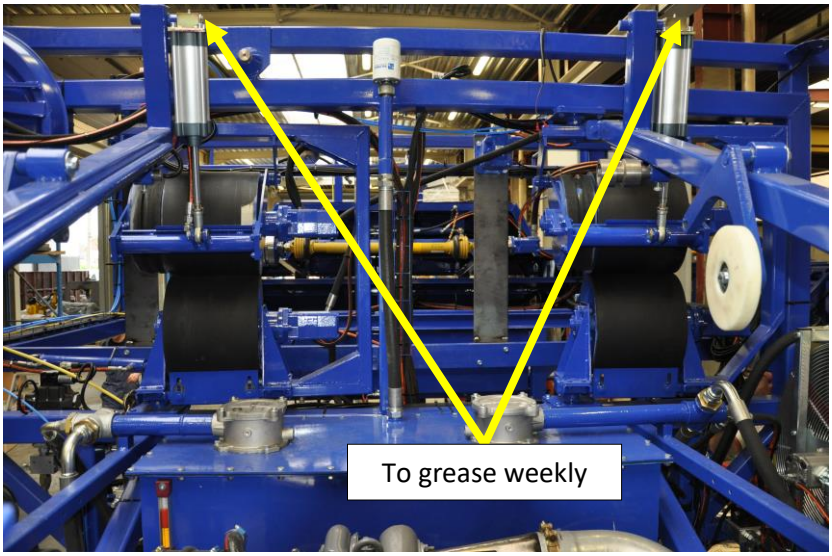




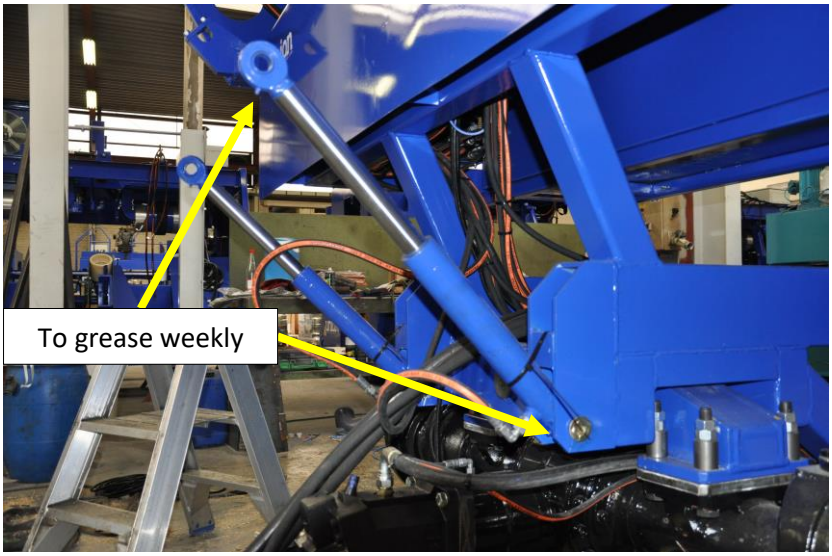
Picture 17



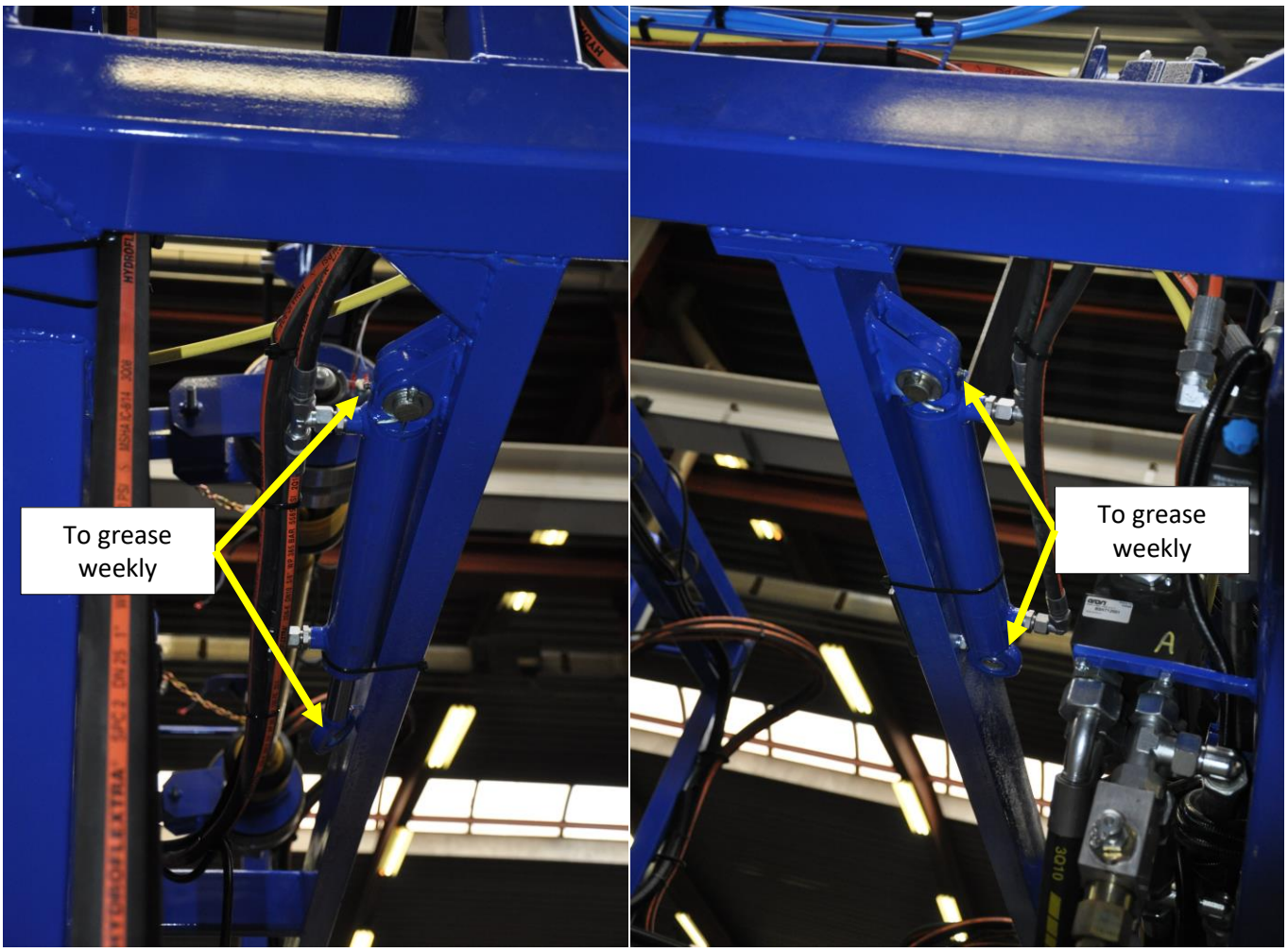
Picture 16



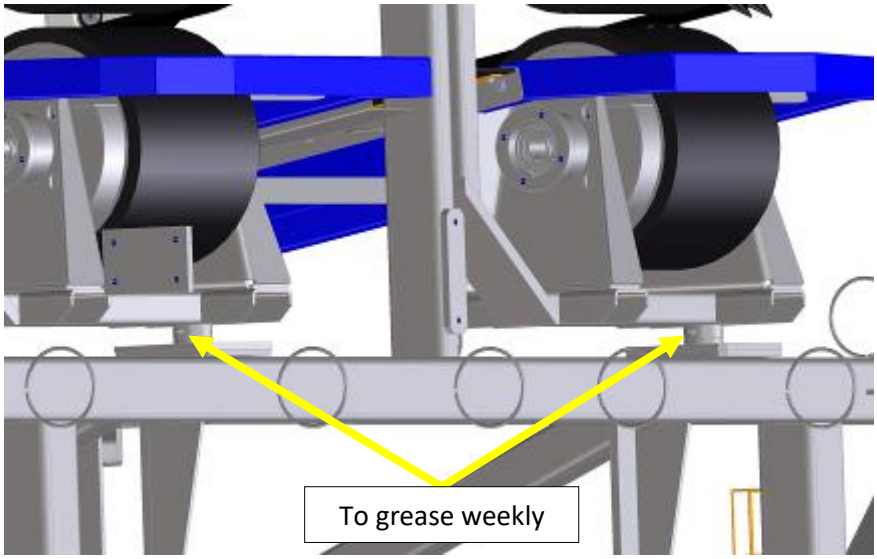
Picture 19



Picture 18



Picture 20



Picture 21

6. Maintenance of the machine

Recommended maintenance after the season.

1. Disconnect the belt tensioners to relief the belts
2. Retract all hydraulic pistons by:
    - Lowering the pulling element to its lowest position
    - Closing the spreading tables
    - Releasing the pressure of the crushing rolls
3. Fill the oil tank to the top to prevent corrosion
4. Check the different oil levels of:
    - the pinion box
    - the wheel reductors
    - the pinion box of the pulling element
    - the Deutz engine
5. Switch off the battery key
6. Remove the clamps from the battery and lubricate the poles of the battery with allot of grease.
7. Clean the oil cooler and the engine

8. Lubricate the greasing points of:

   - The pulling element
   - The crushing rolls
   - The front suspension
   - The spreading table
   - The pedals

   (see chapter 5: Grease points)

9. Clean the air filter element

In winter season:

- Start the machine every month
- Let the engine run idle for about 30 minutes.
- Carefully test all the functions of the machine

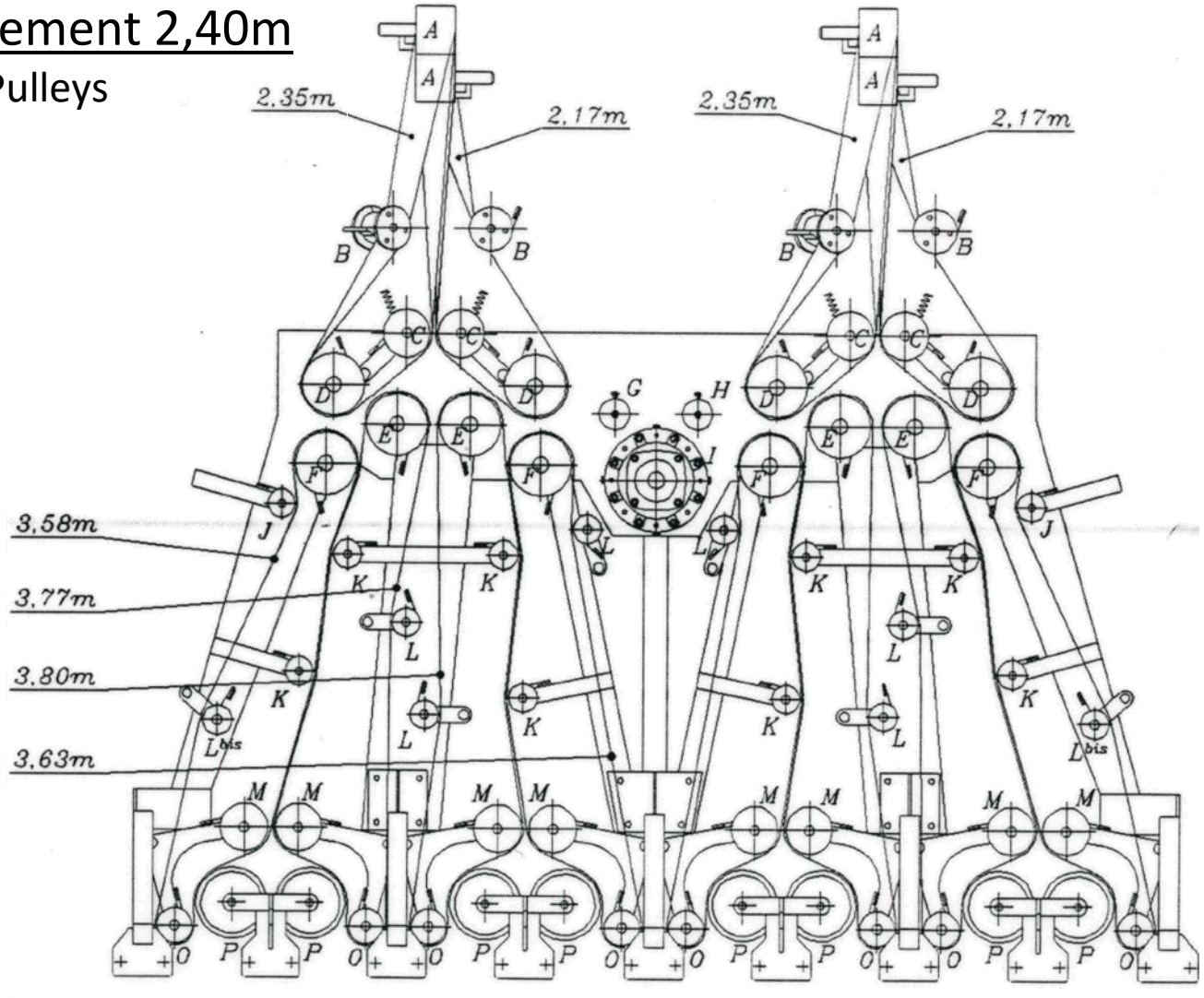
Switch off battery key while doing maintenance work

To protect the battery: always switch off battery key when welding or soldering on the machine.

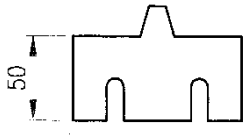
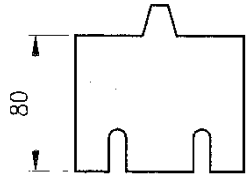
7. Spare parts book

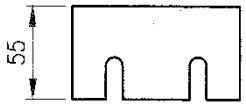
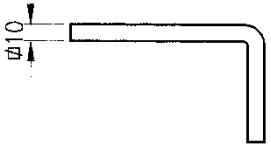
Pulling element 2,40m

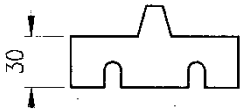
Pulleys

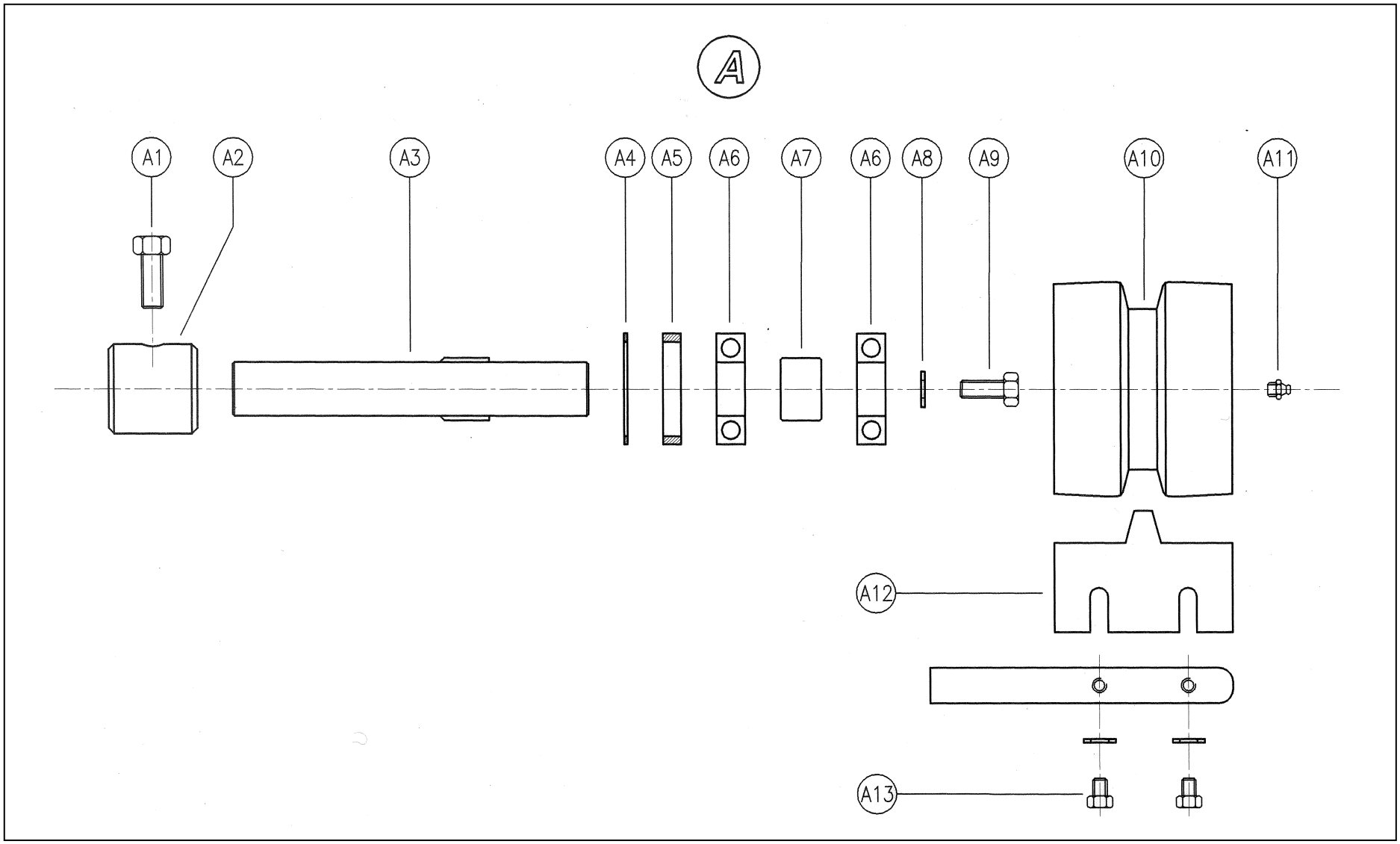


Picture 22

Scrapers	Model	Quantity
	12	30 pieces
	12 a	16 pieces

Scrapers	Model	Quantity
	12 b	12 pieces
	12 c	8 pieces

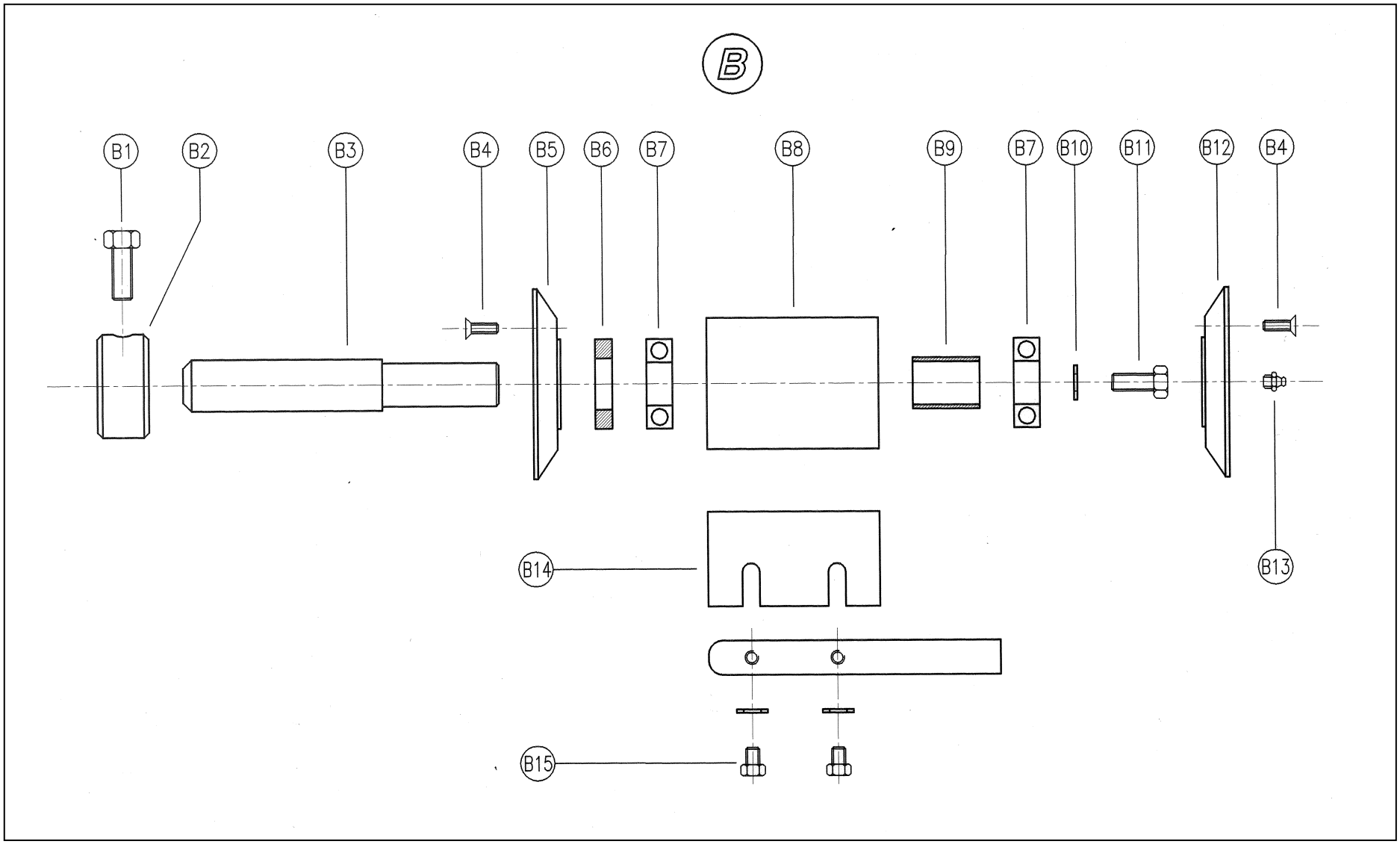
Scrapers	Model	Quantity
	12 d	8 pieces



Picture 23

Pulling system - A

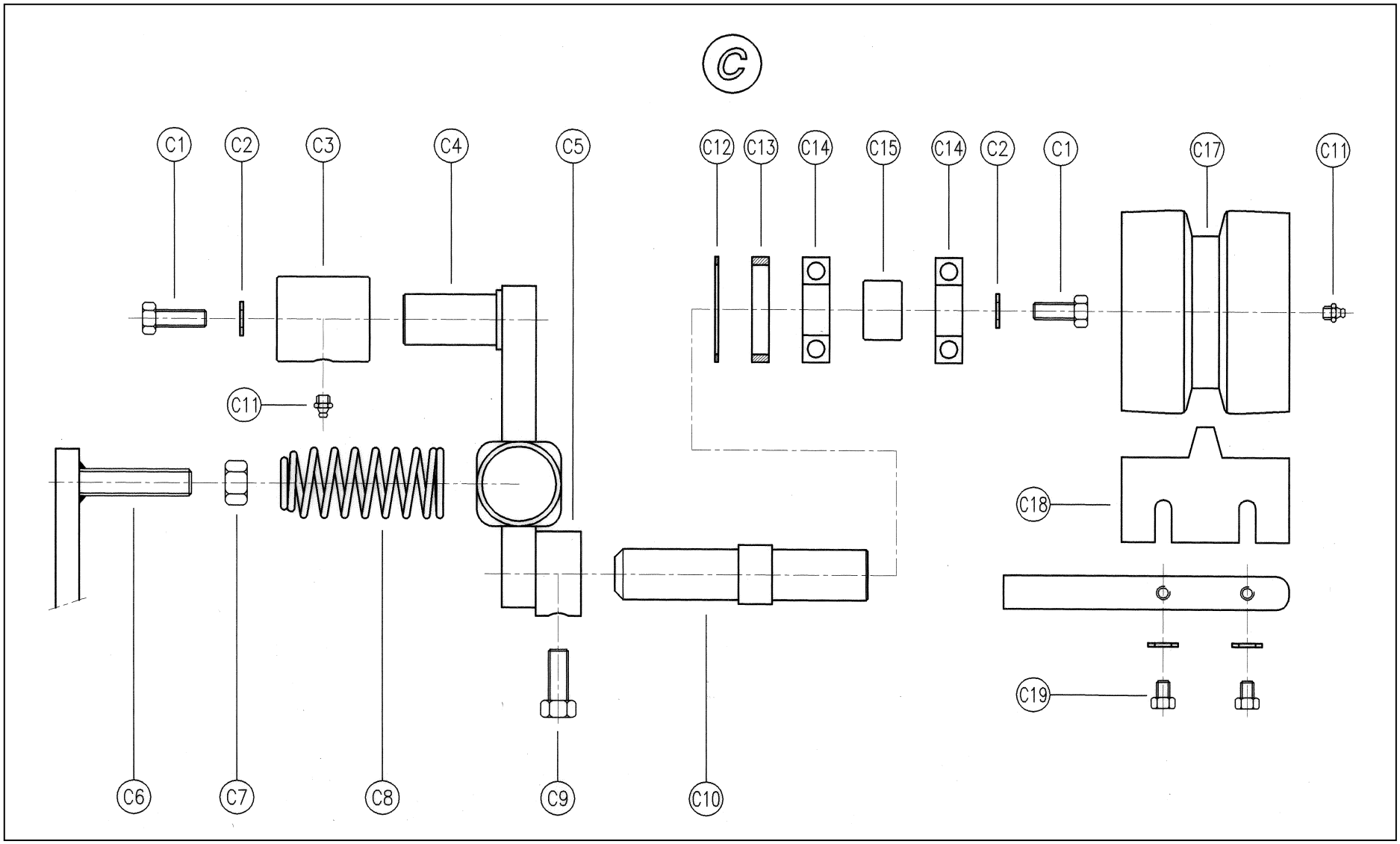
Number	Our reference	Name
A1		Bolt M12x30
A2	22PLK087	Press ring diam. 50x50x30
A3	22PLK088	Axle for pulley diam. 30 – L=200 mm
A4		Retaining ring diam. 62 int.
A5		Seal 62/35/10
A6		Ball bearing 6206
A7	22PLK072	Shell diam. 30-35 – L=23 mm
A8		Washer M10
A9		Bolt M10x25
A10	22PLK086	Pulley diam. 120x100x62 with V
A11		Straight lubricator
A12	SCHR12	Scraper model 12
A13		Bolt M8x10



Picture 24

Pulling system - B

Number	Our reference	Name
B1		Bolt M12x30
B2	22PLK024	Press ring diam. 50x27x30
B3	22PLK023	Axle for pulley diam. 25-30 – L=180 mm
B4		Hexagonal socket screw M6x16
B5	22PLK025	Flange with hole
B6		Seal 30/52/10
B7		Ball bearing 6205 (52/25/15)
B8	22PLK026	Pulley without V diam. 76x100x52
B9	22PLK028	Shell diam. 25-30 – L=39 mm
B10		Washer M10
B11		Bolt M10x25
B12	22PLK027	Flange with lubricator
B13		Straight lubricator
B14	SCHR12b	Scraper model 12 b
B15		Bolt M8x10

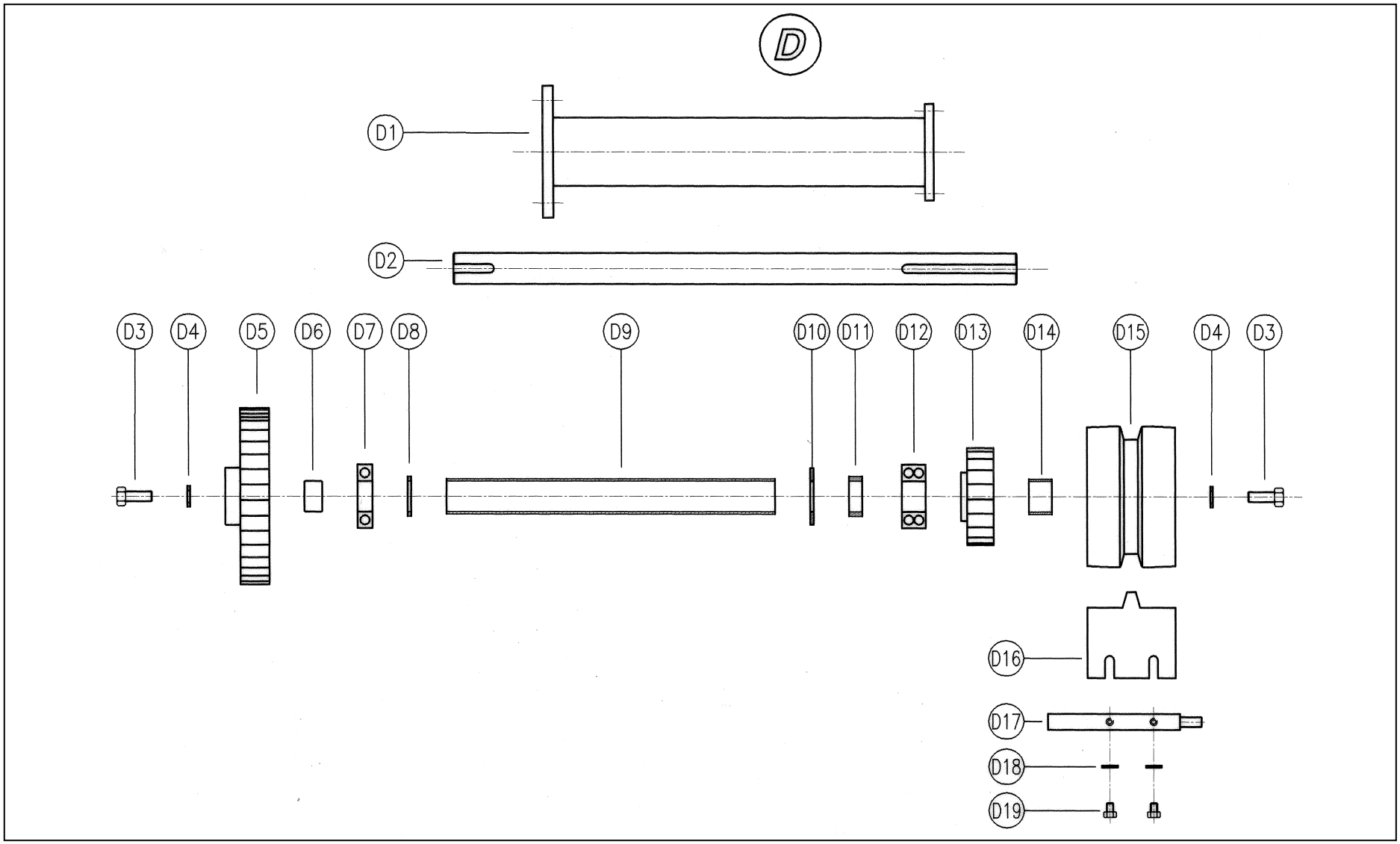

C1
C2
C3
C4
C5
C12
C13
C14
C15
C14
C2
C1
C17
C11
C11
C18
C19
C6
C7
C8
C9
C10

Picture 25

Pulling system – C

Number	Our reference	Name
C1		Bolt M10x25
C2		Washer M10
C3	22PLK076	Press ring diam. 50x55x30
C4	22PLK074	Thumb for crank (welded)
C5	22PLK075	Press ring diam. 50x27x30
C6		Threaded rod
C7		Adjusting nut M16
C8		Spring
C9		Bolt M12x30
C10	22PLK077	Axle for pulley diam. 30-35 – L=150 mm

Number	Our reference	Name
C11		Straight lubricator
C12		Retaining ring diam. 62 int.
C13		Seal 62/35/10
C14		Ball bearing 6206 (30/62/16)
C15	22PLK072	Shell diam. 30-35 – L=23 mm
C17	22PLK086	Pulley diam. 120x100x62
C18	SCHR12	Scraper model 12
C19		Bolt M8x10

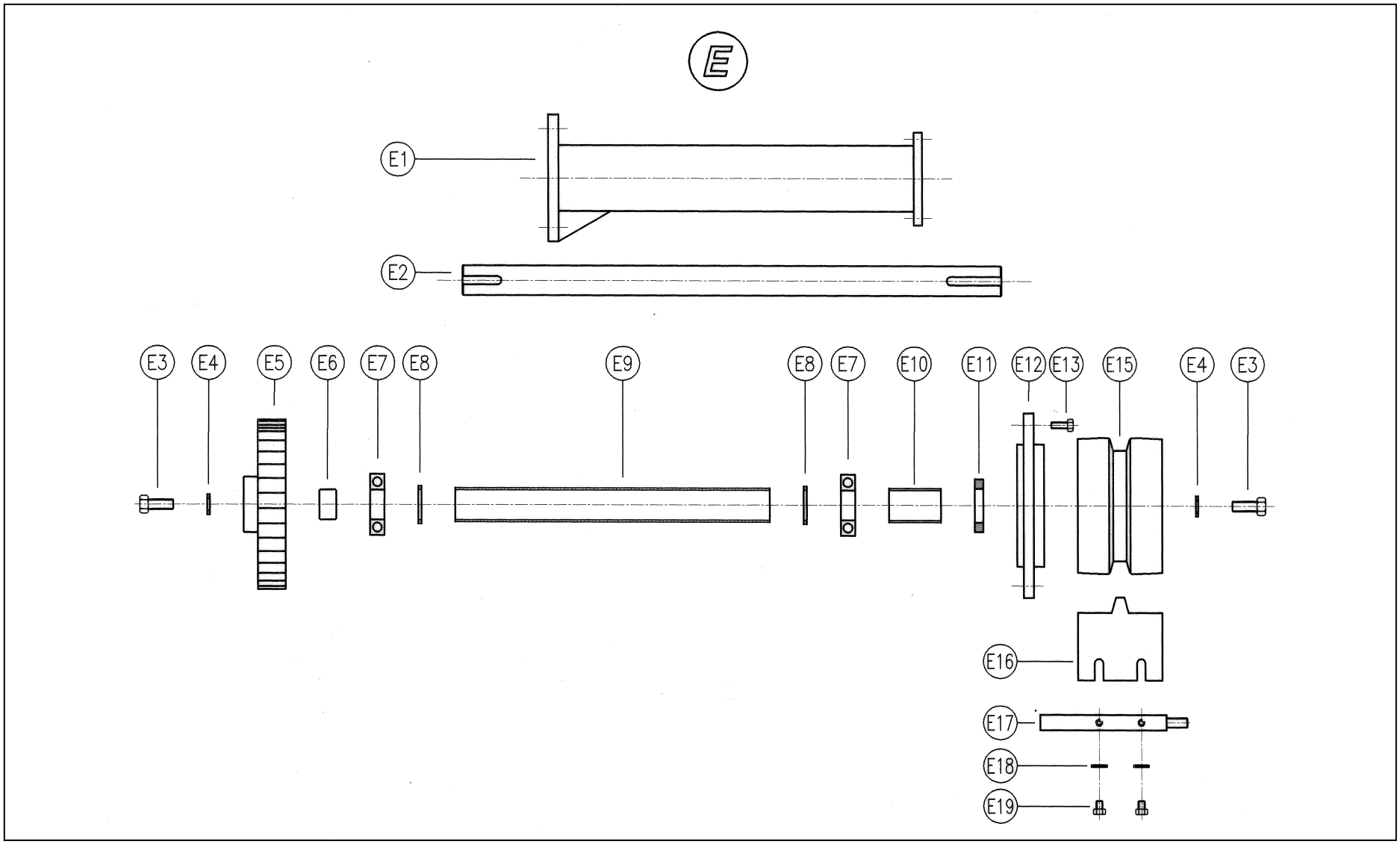

D
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D4
D3
D16
D17
D18
D19

Picture 26

Pulling system – D

Number	Our reference	Name
D1		Pillar L=443,5 mm
D2	22PLK045	Axle diam. 35 – L=640 mm
D3		Bolt M12x30
D4		Washer M12
D5	22PLK004	Straight cog wheel 38T mod. 5
D6	22PLK038	Shell L=20 mm
D7		Ball bearing 6207 (35/72/17)
D8	22PLK047	Diam. 45-35
D9	22PLK048	Shell L=372,5 mm
D10		

Number	Our reference	Name
D11	22PLK049	Shell L=15 mm
D12		Ball bearing
D13	22PLK005	Straight cog wheel 20 T mod. 5
D14	22PLK073	Shell diam. 35 – L=26 mm
D15	22PLK078	V-pulley diam. 160x100x35
D16	SCHR12 a	Scraper model 12 a
D17		Scraper support
D18		Washer M8
D19		Bolt M8x10

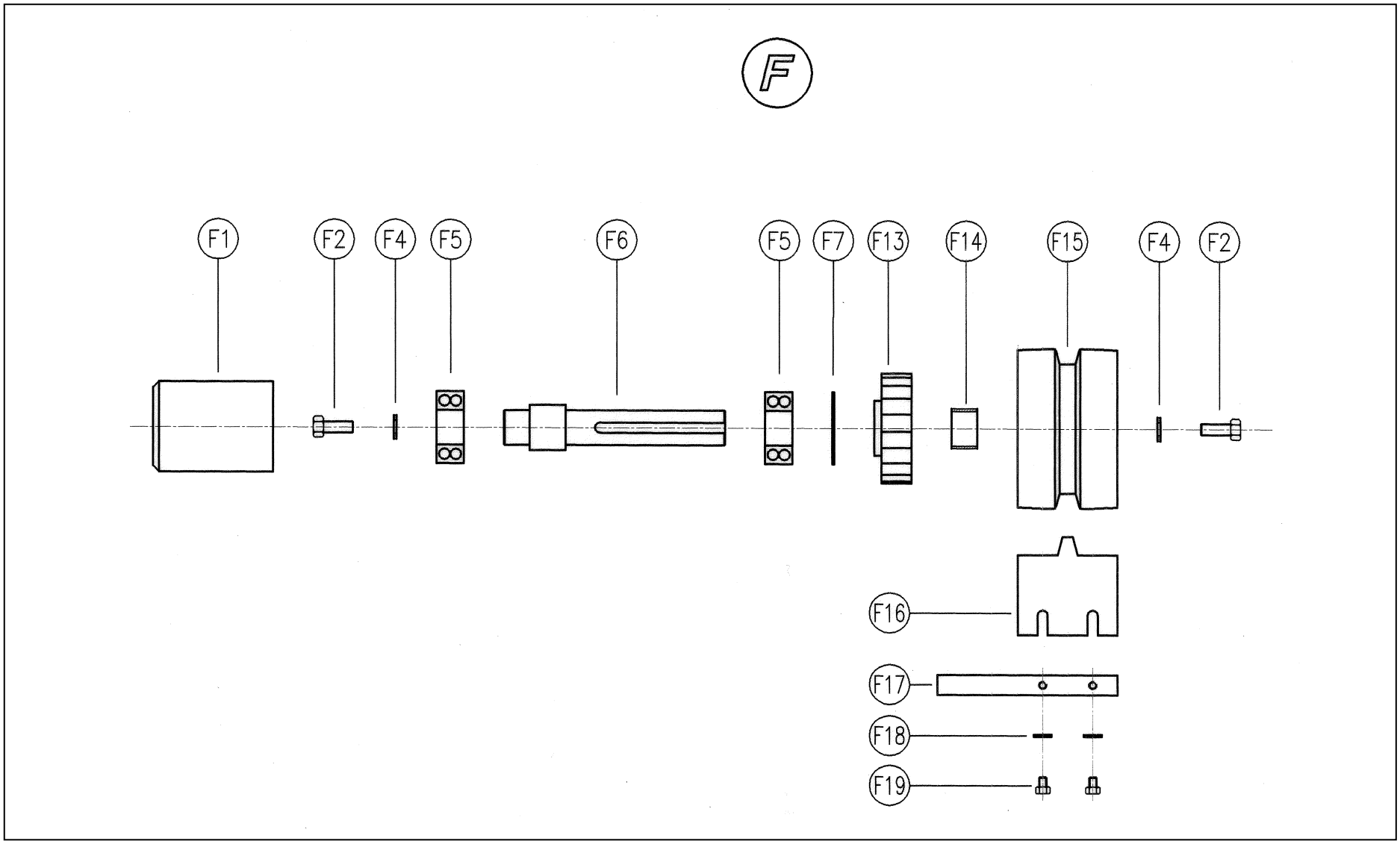

E
E1
E2
E3
E4
E5
E6
E7
E8
E9
E8
E7
E10
E11
E12
E13
E15
E4
E3
E16
E17
E18
E19

Picture 27

Pulling system – E

Number	Our reference	Name
E1		Pillar with corner – L=443,5 mm
E2	22PLK035	Axle diam. 35 – L=640mm
E3		Bolt M12x30
E4		Washer M12
E5	22PLK004	Straight cog wheel 38 T mod.5
E6	22PLK038	Shell L=20 mm
E7		Ball bearing 6207 (35/72/17)
E8	22PLK047	Spacer diam. 45-35 – L=4 mm
E9		Shell

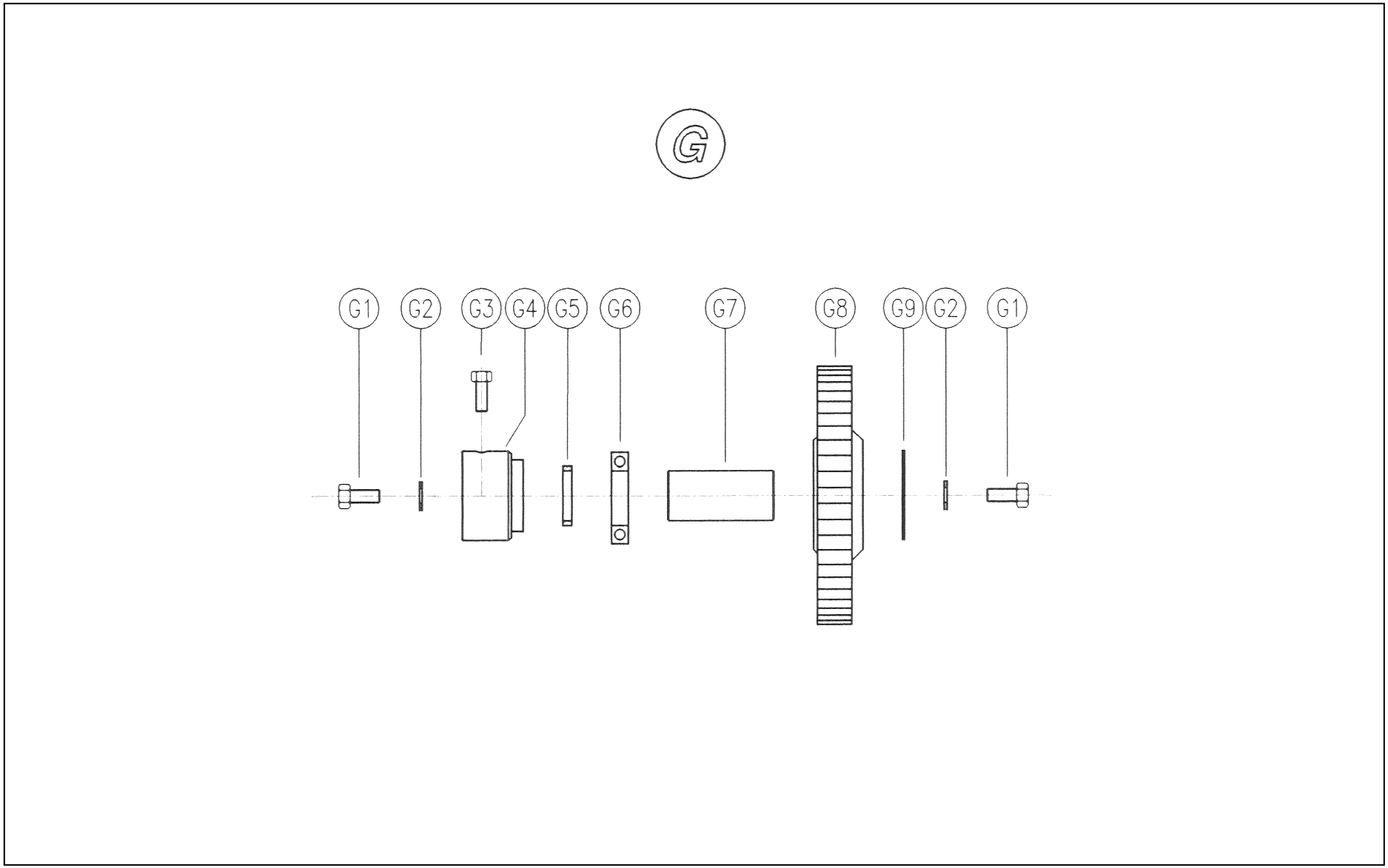
Number	Our reference	Name
E10	22PLK073	Shell diam. 35 – L=26 mm
E11		Seal 62/40/10
E12	22PLK051	Cover diam. 72 with hole diam. 41
E13		Press ring M8x20
E15	22PLK078	V-pulley diam. 160x100x35
E16	SCHR12 a	Scraper model 12 a
E17		Scraper support
E18		Washer M8
E19		Bolt M8x10



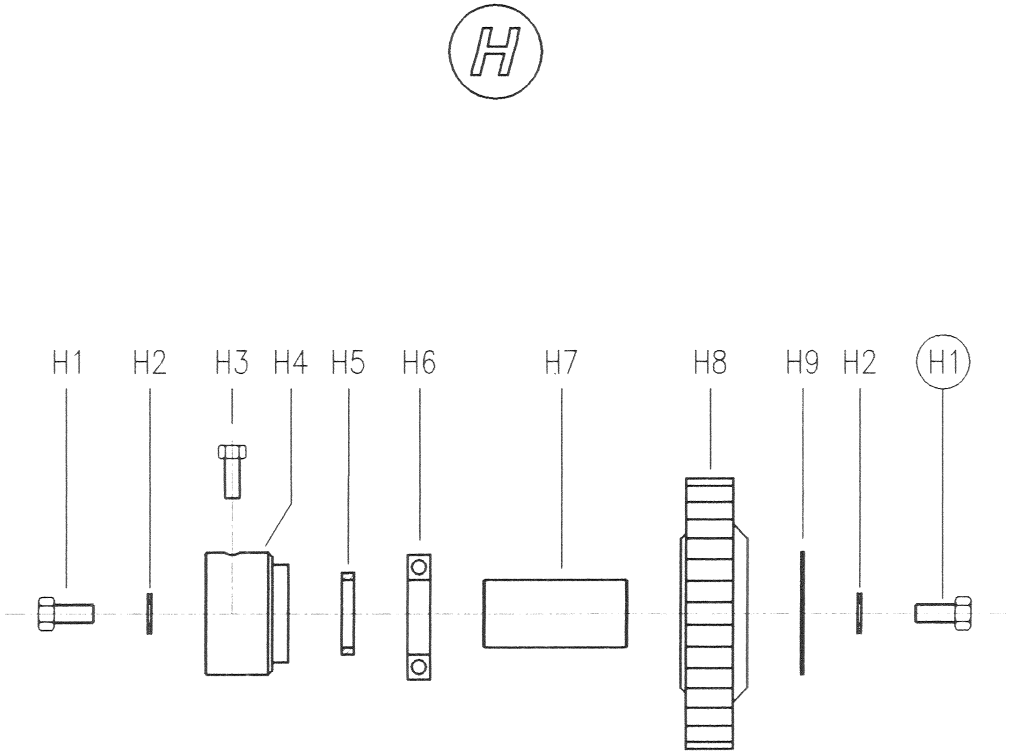
Picture 28

Pulling system - F

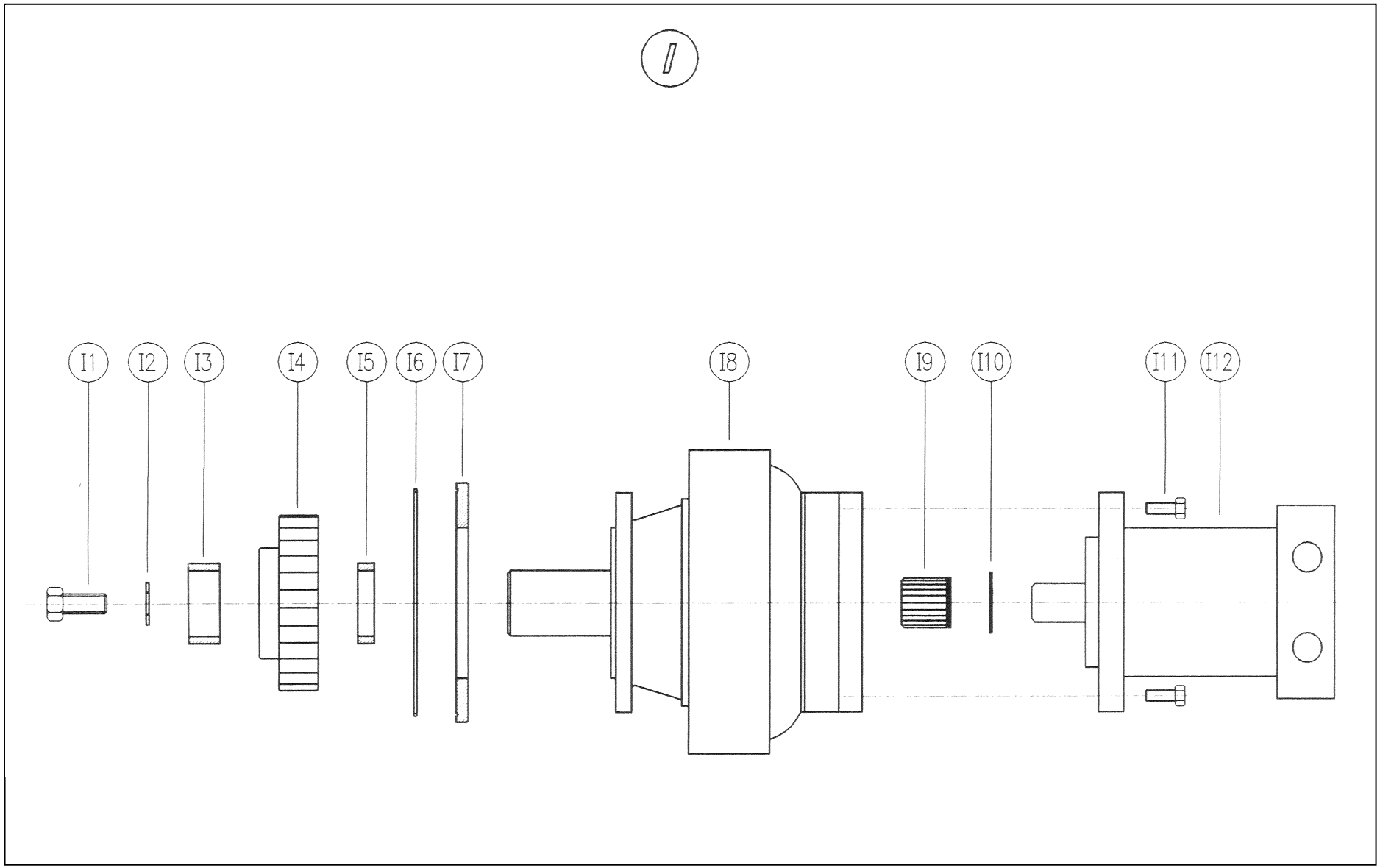
Number	Our reference	Name
F1	22PLK001	Short welded column
F2		Bolt M12x30
F4		Washer M12
F5		Double ball bearing 3207 (35/72/27)
F6	22PLK002	Axle diam. 35 – L=221 mm
F7		
F13	22PLK005	Straight cog wheel 20 T mod. 5
F14	22PLK073	Shell diam. 35 – L=26 mm
F15	22PLK078	V-pulley diam. 160x100x35
F16	SCHR12 a	Scraper model 12 a
F17		Scraper support
F18		Washer M8
F19		Bolt M8x10



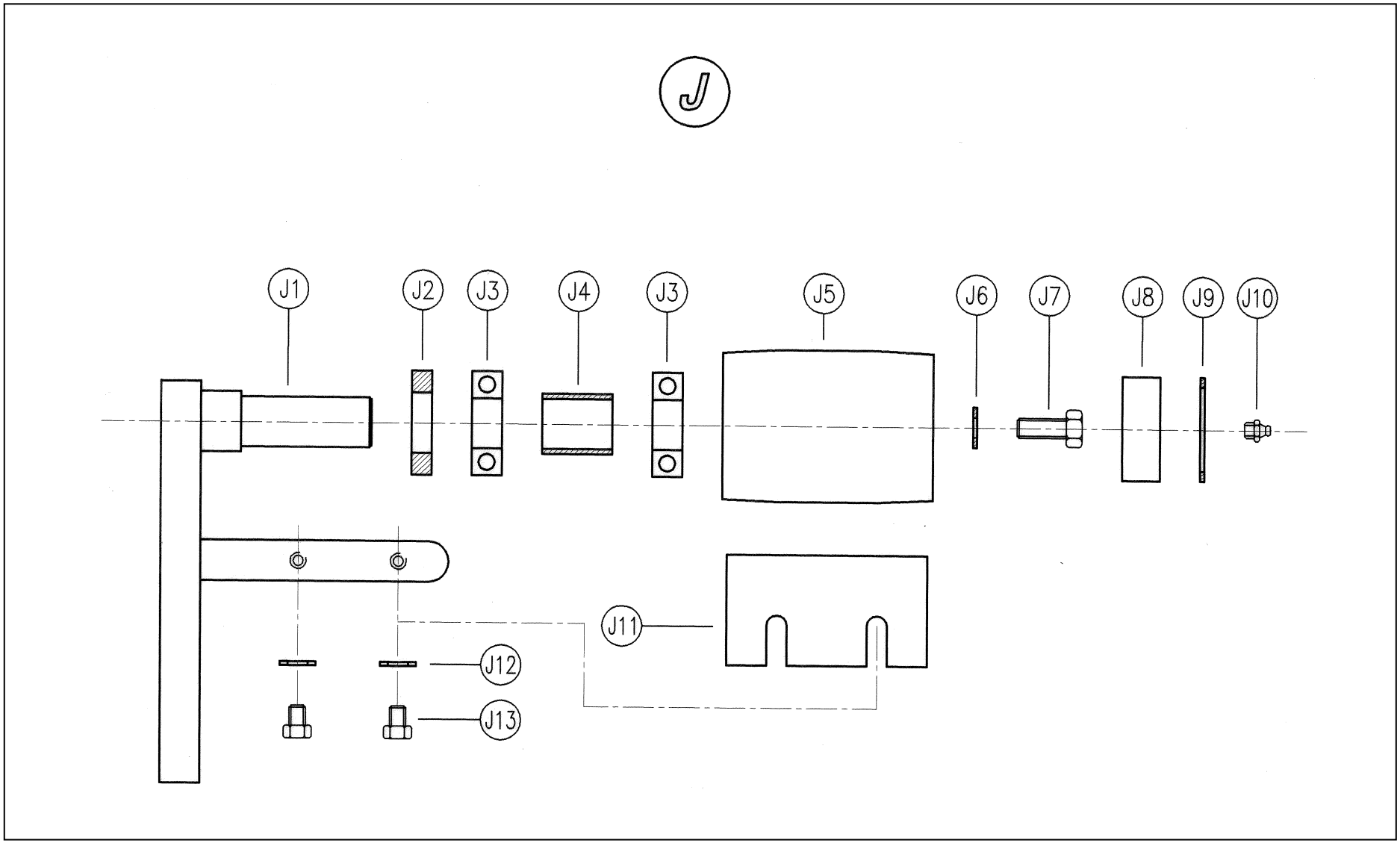
Picture 29



Picture 30



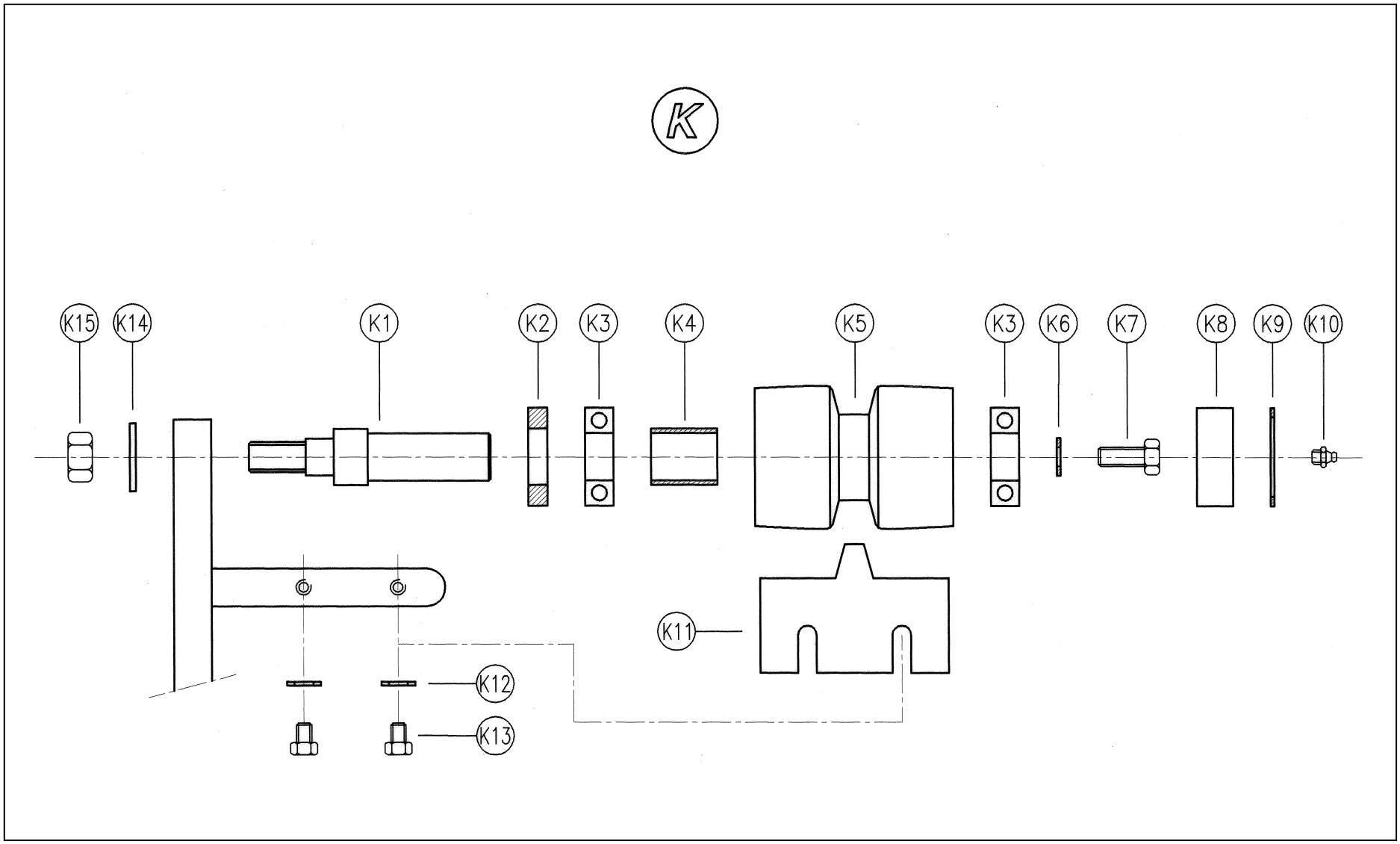
Picture 31



Picture 32

Pulling system - J

Number	Our reference	Name
J1	22PLK065	Crank with welded thumb diam. 25-30 – L=106,5 mm
J2		Seal (30/52/10)
J3		Ball bearing 6205 (52/25/15)
J4	22PLK083	Shell diam. 25-30 – L=36,5 mm
J5	22PLK081	Pulley diam. 76x105x52
J6		Washer M10
J7		Bolt M10x25
J8	22PLK082	Inner cover with lubricator diam. 52x19
J9		Retaining ring diam. 52 int.
J10		Straight lubricator
J11	SCHR12 b	Scraper model 12 b
J12		Washer M8
J13		Bolt M8x10

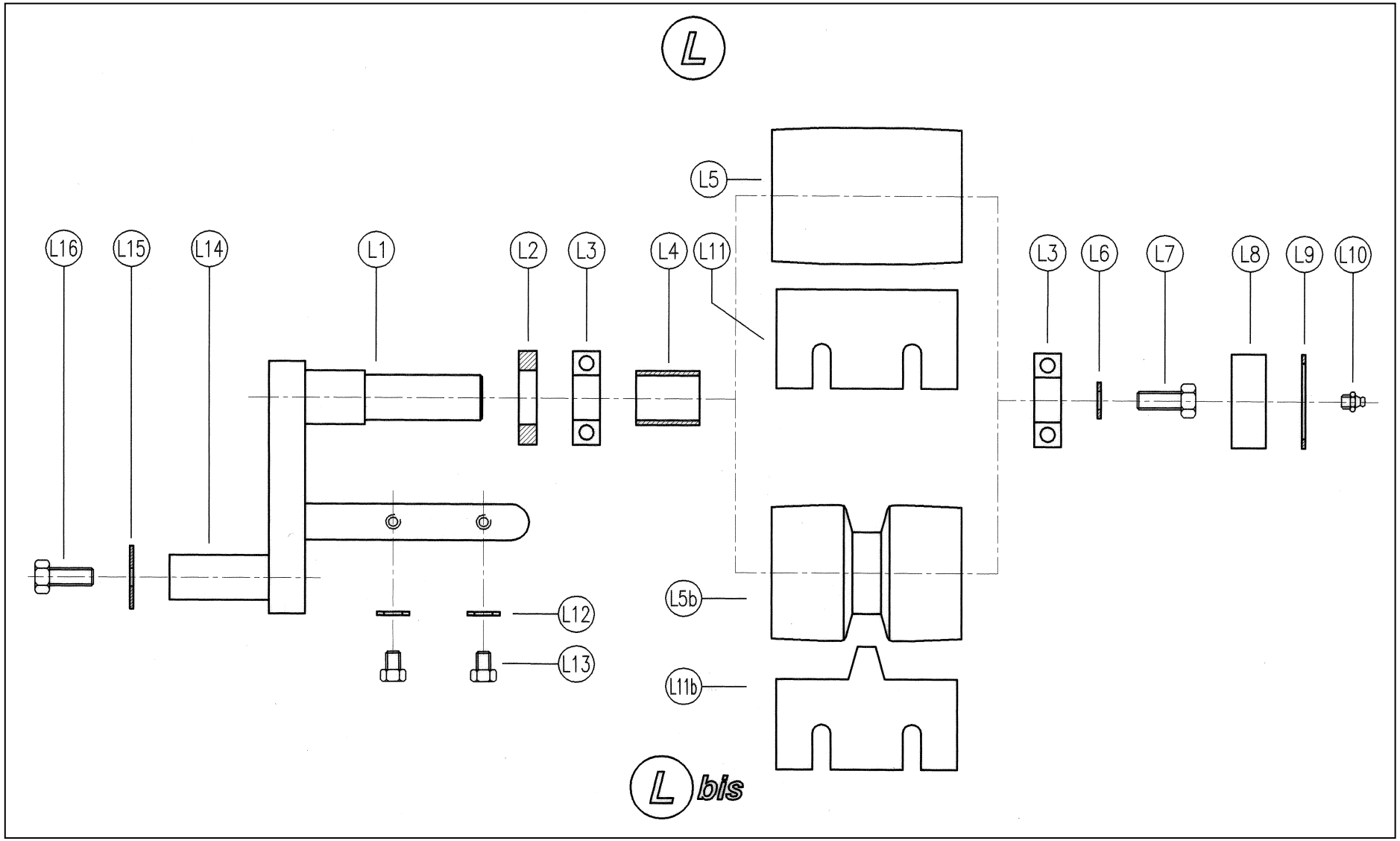


Picture 33

Pulling system – K

Number	Our reference	Name
K1	22PLK064	Axle belt pusher L=129,5 mm
K2		Seal (30/52/10)
K3		Ball bearing 6205 (52/25/15)
K4	22PLK083	Shell diam. 25-30 – L=36,5 mm
K5	22PLK080	V-pulley diam. 76- L=105 mm
K6		Washer M10
K7		Bolt M10x25
K8	22PLK082	Inner cover with lubricator diam. 52x19

Number	Our reference	Name
K9		Retaining ring diam. 52 int.
K10		Straight lubricator
K11	SCHR12	Scraper model 12
K12		Washer M8
K13		Bolt M8x10
K14		Washer M16
K15		Nut M16

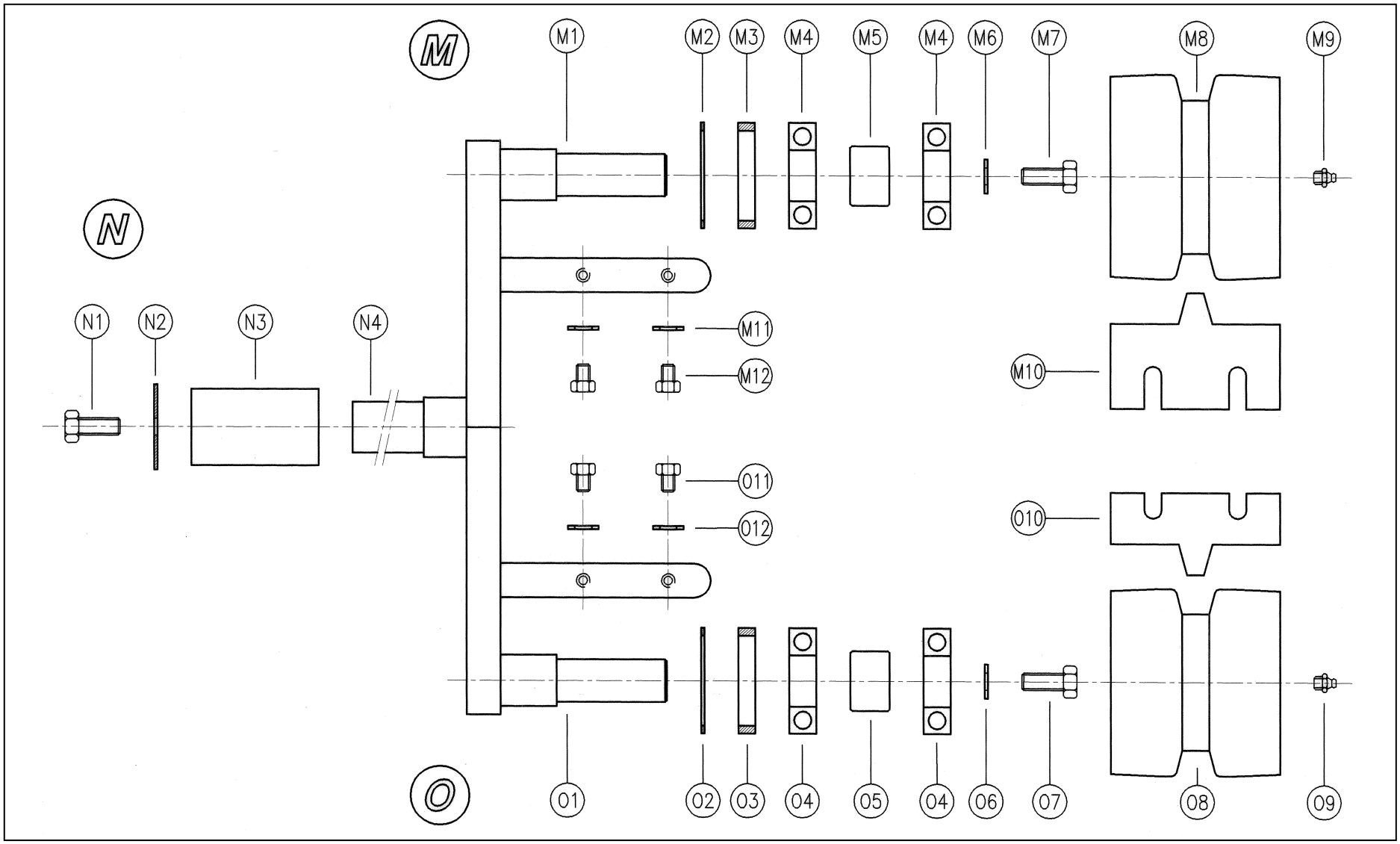

L
L5
L16
L15
L14
L1
L2
L3
L4
L11
L3
L6
L7
L8
L9
L10
L12
L13
L5b
L11b
L bis

Picture 34

Pulling system – L

Number	Our reference	Name
L1	22PLK066	Thumb for crank diam. 25-30 L=119,5 mm
L2		Seal (30/52/10)
L3		Ball bearing 6205 (52/25/15)
L4	22PLK083	Shell diam. 25-30 – L=36,5 mm
L5	22PLK081	Pulley diam. 76x105x52 without V
L5b	22PLK	V-pulley diam. 76x105x52
L6		Washer M10
L7		Bolt M10x25
L8	22PLK082	Inner cover with lubricator diam. 52x19

Number	Our reference	Name
L9		Retaining ring diam. 52 int.
L10		Straight lubricator
L11	SCHR12 b	Scraper model 12 b
L11b	SCHR12	Scraper model 12
L12		Washer M8
L13		Bolt M8x10
L14	22PLK067	Thumb for crank diam. 25 – L=55 mm
L15		Washer M10
L16		Bolt M10x25


M
N
O
M1
M2
M3
M4
M5
M4
M6
M7
M8
M9
M10
M11
M12
N1
N2
N3
N4
011
012
010
01
02
03
04
05
04
06
07
08
09

Picture 35

Pulling system - M

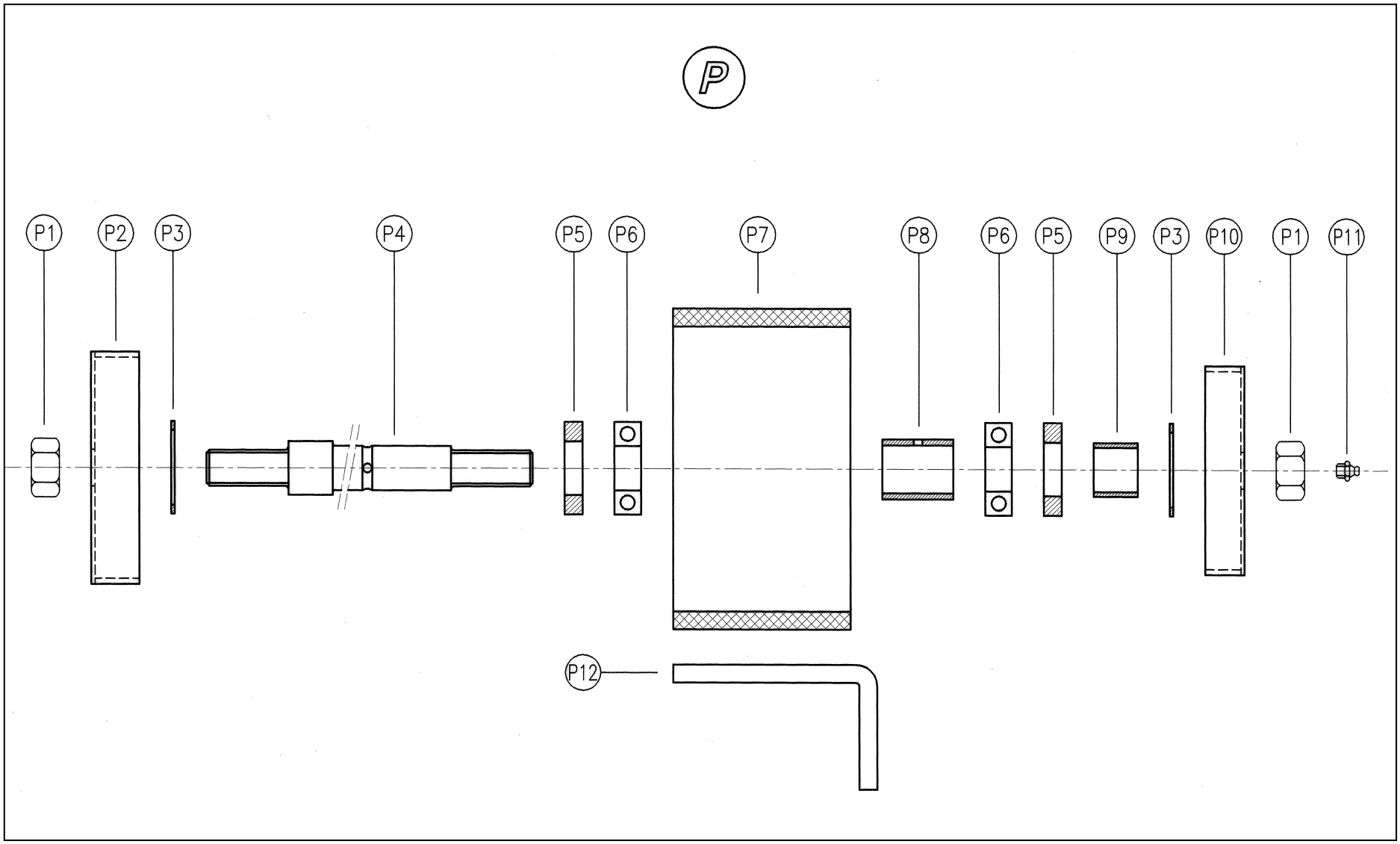
Number	Our reference	Name
M1	22PLK070	Thumb welded on elbow diam. 30-35 – L=102 mm
M2		Retaining ring diam. 62 int.
M3		Seal 62/35/10
M4		Ball bearing 6206 (30/62/16)
M5	22PLK072	Shell diam. 30-35 – L=23 mm
M6		Washer M10
M7		Bolt M10x25
M8	22PLK086	Pulley diam. 120x100x62
M9		Straight lubricator
M10	SCHR12	Scraper model 12
M11		Washer M8
M12		Bolt M8x10

Pulling system - N

Number	Our reference	Name
N1		Bolt M10x25
N2		Washer M10
N3		Hinge for crank diam. 45-30 – L=75 mm
N4	22PLK069	Thumb welded in elbow diam. 30-35 – L=125 mm

Pulling system - 0

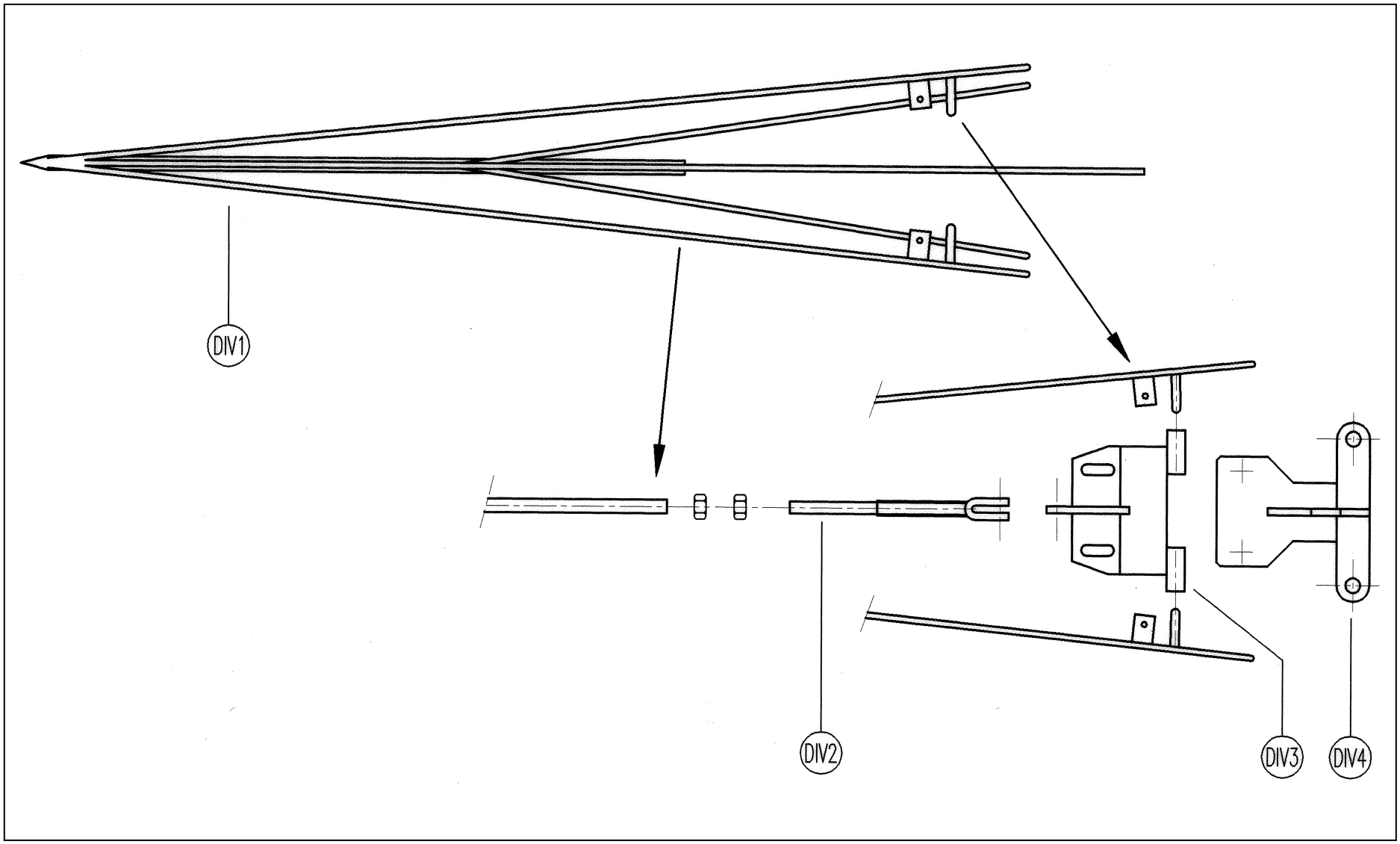
Number	Our reference	Name
O1	22PLK070	Thumb welded on elbow diam. 30-35 – L=102 mm
O2		Retaining ring diam. 62 int.
O3		Seal 62/35/10
O4		Ball bearing 6206 (30/62/16)
O5	22PLK072	Shell diam. 30-35 – L=23 mm
O6		Washer M10
O7		Bolt M10x25
O8	22PLK085	V-pulley diam. 110x100x62
O9		Straight lubricator
O10	SCHR12 d	Scraper model 12 d
O11		Washer M8
O12		Bolt M8x10



Picture 36

Pulling system - P

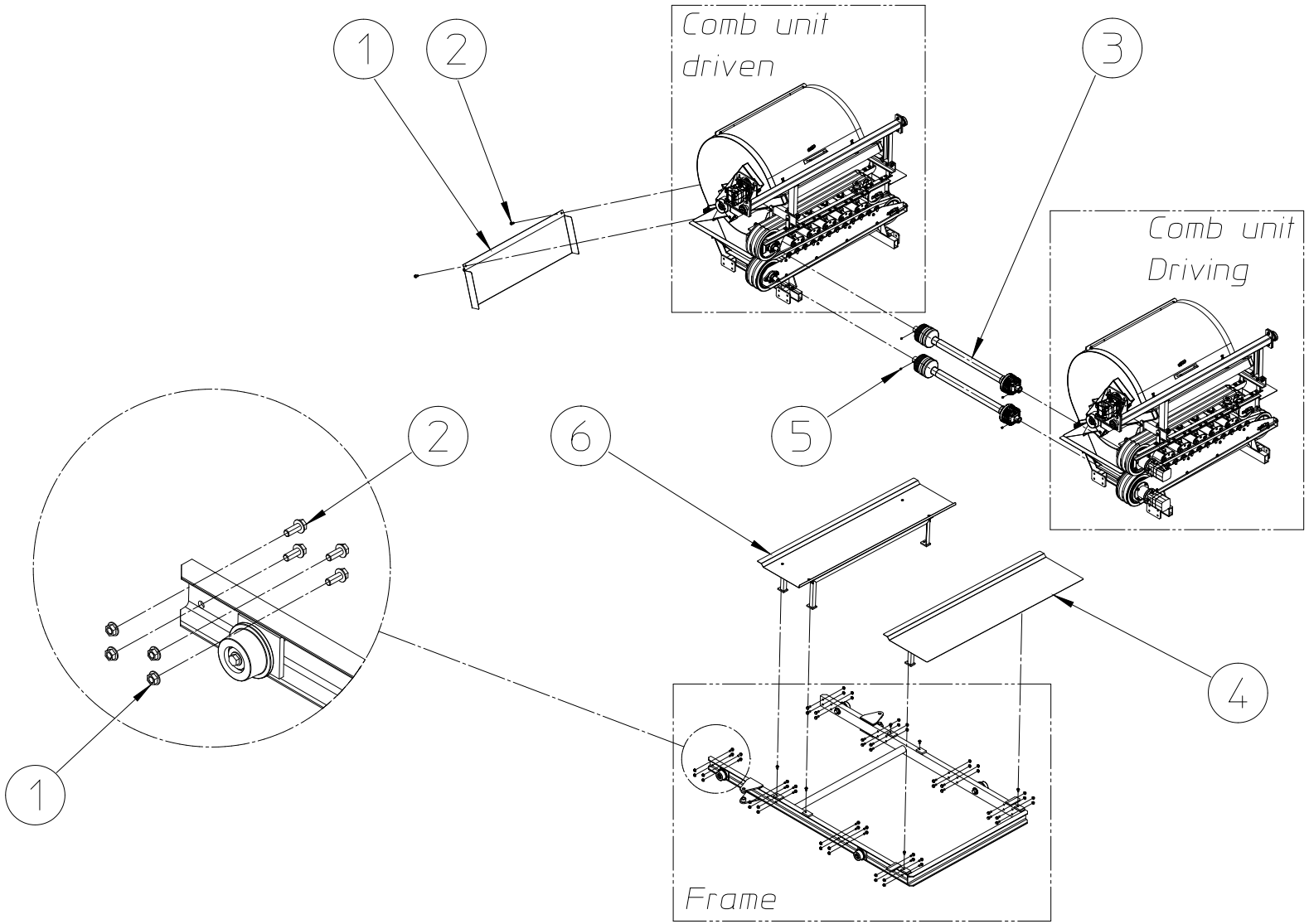
Number	Our reference	Name
P1		Nut M20
P2		Cover diam. 130 – width=25 mm
P3		Retaining ring diam. 52 int.
P4	22PLK060	Axle diam. 25-30 – L=212 mm
P5		Seal 30/52/10
P6		Ball bearing 6205 (52/25/15)
P7	22PLK084	Rubber pulley diam. 180x100x52
P8	22PLK062	Shell diam. 25-30 – L=40 mm
P9	22PLK063	Shell diam. 25-30 – L=25 mm
P10		Cover diam. 130 – width=25 mm
P11		Straight lubricator
P12	SCHR12c	Scraper model 12c



Picture 37

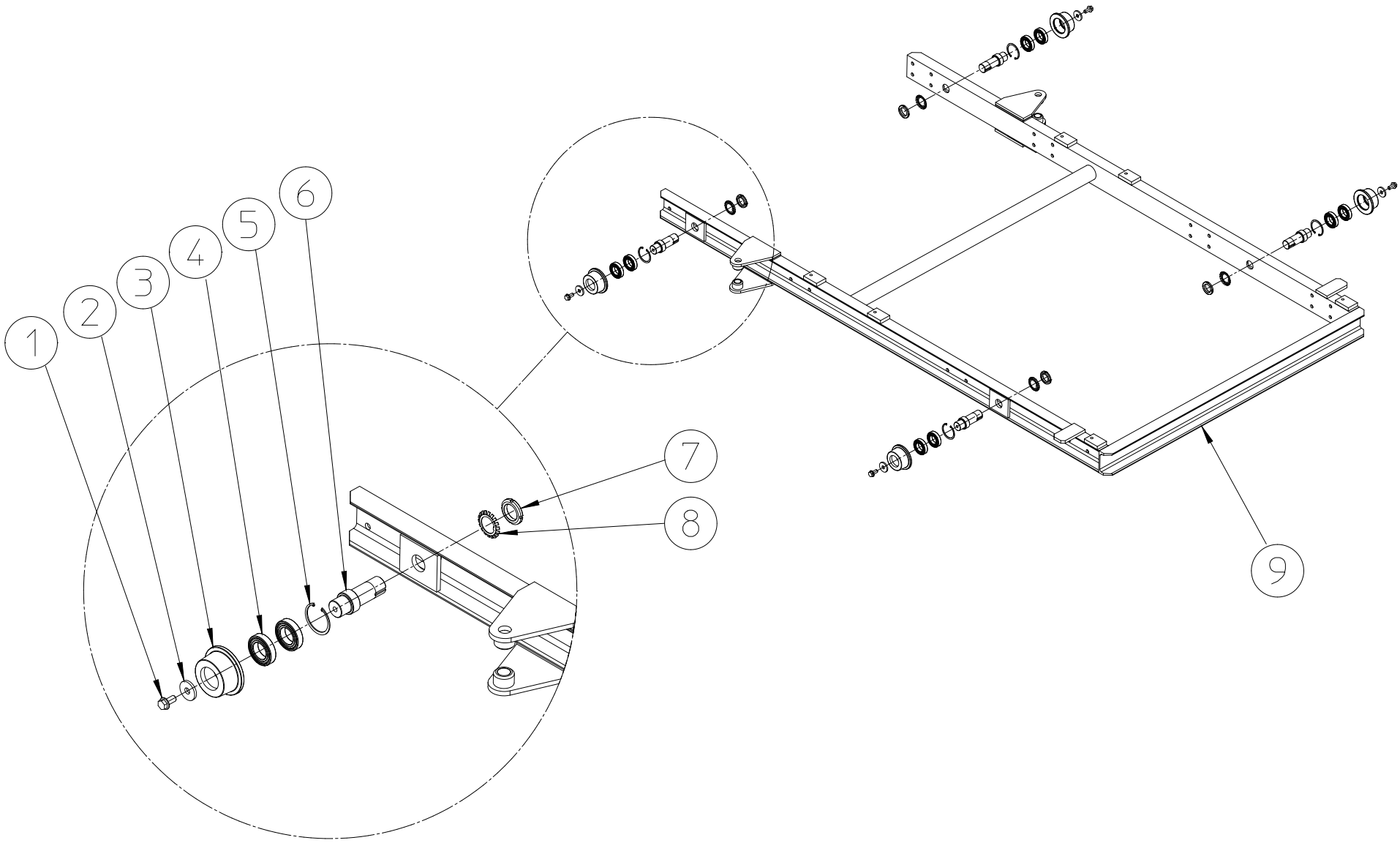
Pulling system - Divider

Number	Our reference	Name
Div1		Divider or separator
Div2		Adjusting rod for divider
Div3		Screwed on divider holder
Div4		Divider holder


1
2
Comb unit
driven
3
Comb unit
Driving
5
2
6
1
4
Frame

Comb Unit

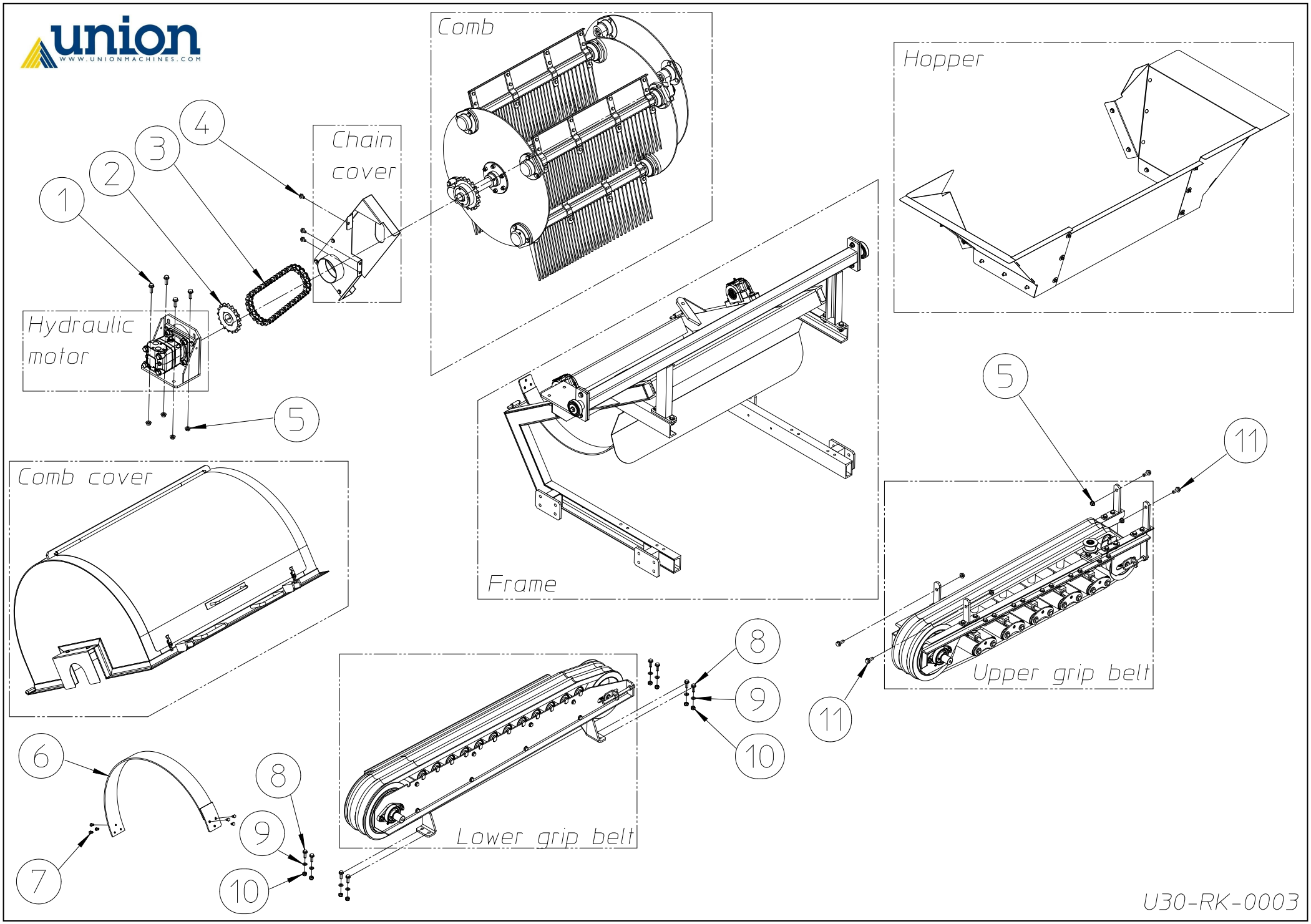
Number	Our reference	Name
1	00023825	Protection cover
2	00011750	Bolt
3	00023237	Cardan shaft
4	00023153	Table comb unit driving
5	00021024	Hexagon socket set screw
6	00023151	Table com unit driven



U30-RK-0002

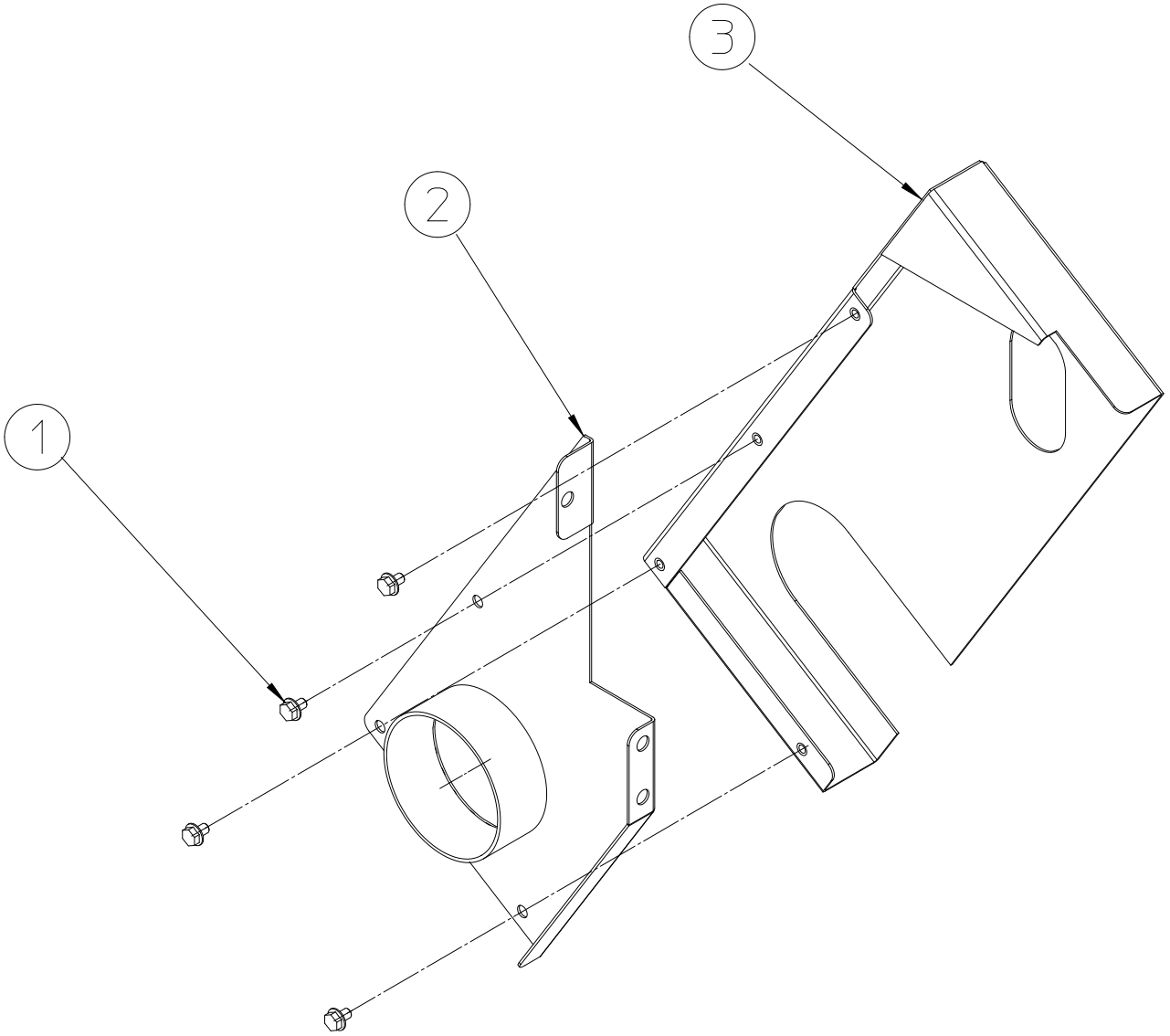
Frame Comb Unit

Number	Our reference	Name
1	00011749	Bolt
2	00022729	Washer
3	00023212	Wheel
4	00022221	Ball bearing
5	00010464	Retaining ring
6	00023211	Axle
7	00022006	Lock nut
8	00022007	Lock washer
9	00023226	Frame comb unit


union
WWW.UNIONMACHINES.COM
Comb
Hopper
Chain cover
1
2
3
4
Hydraulic motor
5
Frame
5
11
Comb cover
Upper grip belt
11
8
9
10
6
7
8
9
10
Lower grip belt
U30-RK-0003

Comb Unit driven

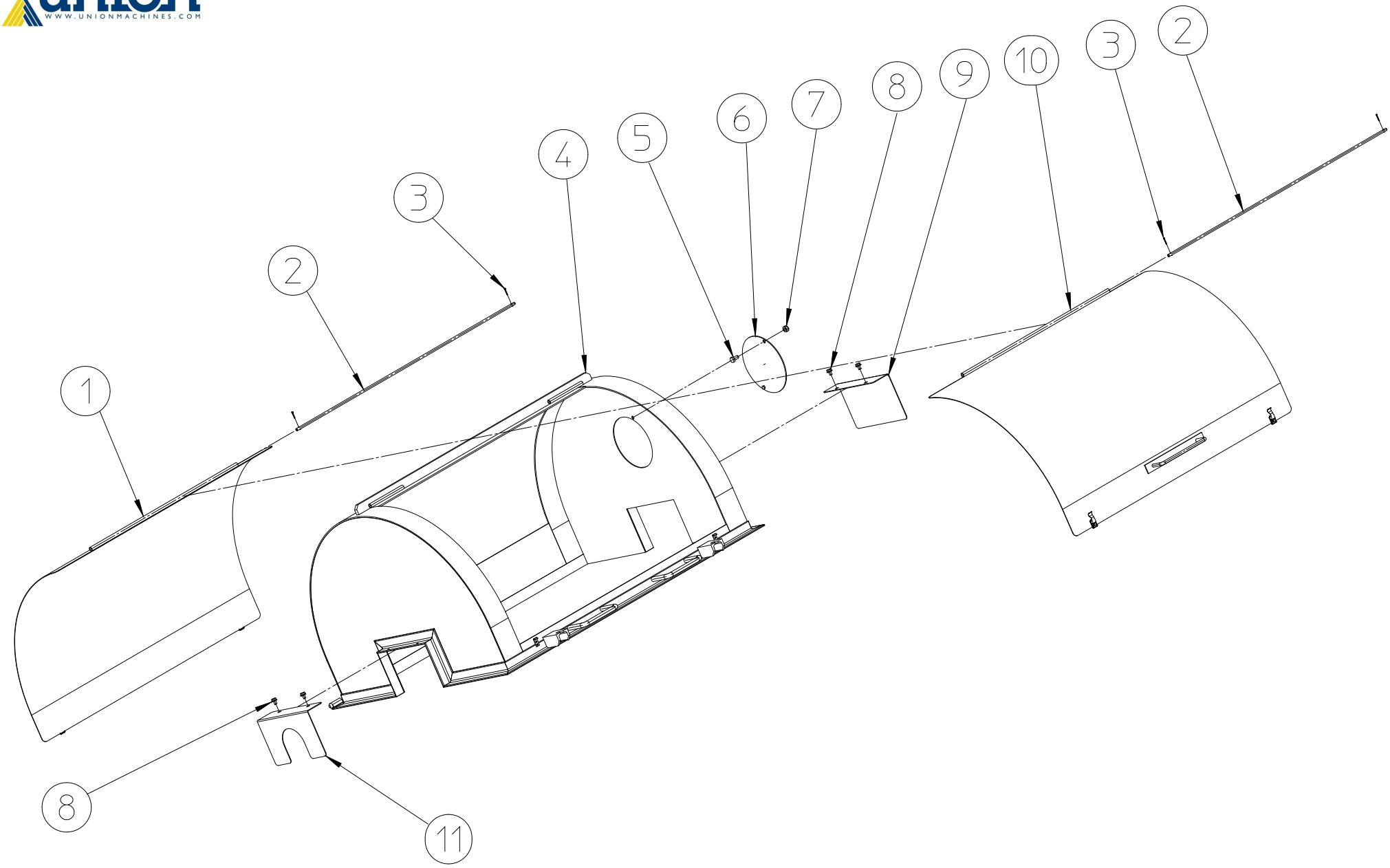
Number	Our reference	Name
1	00011751	Bolt
2	00022961	Pinion
3	00022962	Chain
4	00011741	Bolt
5	00011772	Nut
6	00022873	Arc
7	00012382	Bolt
8	00011744	Bolt
9	00010030	Washer
10	00019766	Nut
11	00011750	Bolt



U30-RK-0004

Chain cover

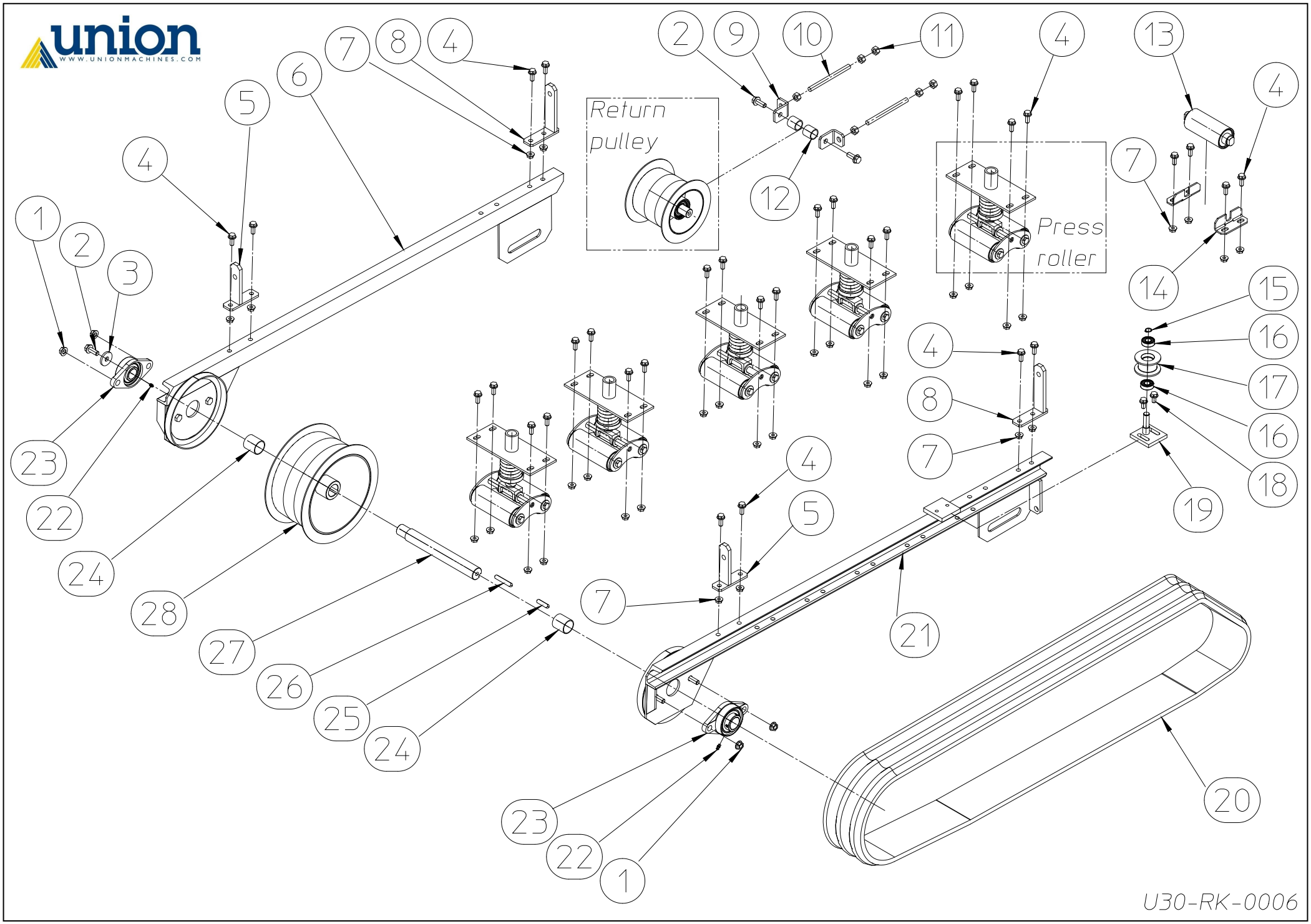
Number	Our reference	Name
1	00011733	Bolt
2	00023841	Cover
3	00023185	Cover



U30-RK-0005

Comb cover

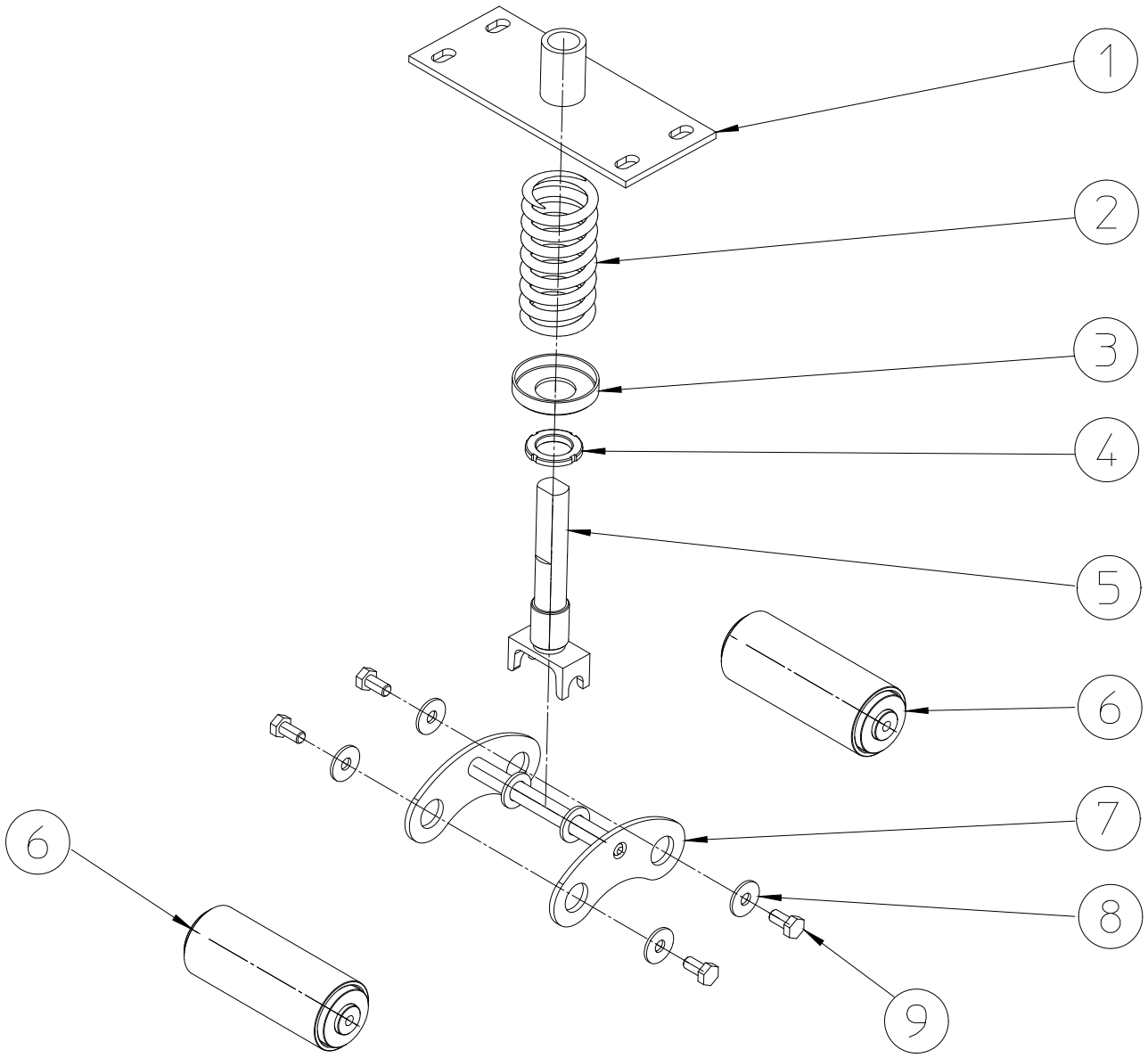
Number	Our reference	Name
1	00022975	Left door
2	00022968	Axle door hinge
3	00022427	Cotter pin
4	00022996	Cover base
5	00021733	Bolt
6	00022970	Spy hole
7	00019766	Nut
8	00011733	Bolt
9	00023183	Bearing cover input
10	00022975	Right door
11	00023182	Bearing cover output


union
WWW.UNIONMACHINES.COM
Return pulley
Press roller
U30-RK-0006

Upper grip belt

Number	Our reference	Name
1	00011772	Nut
2	00011750	Bolt
3	00022729	Washer
4	00011743	Bolt
5	00022793	Support
6	00022812	Left side member
7	00011771	Nut
8	00022790	Support
9	00022748	Tensioner
10	00022837	Rod
11	00010444	Nut
12	00022734	Spacer sleeve
13	00022800	Supporting roll
14	00022801	Support

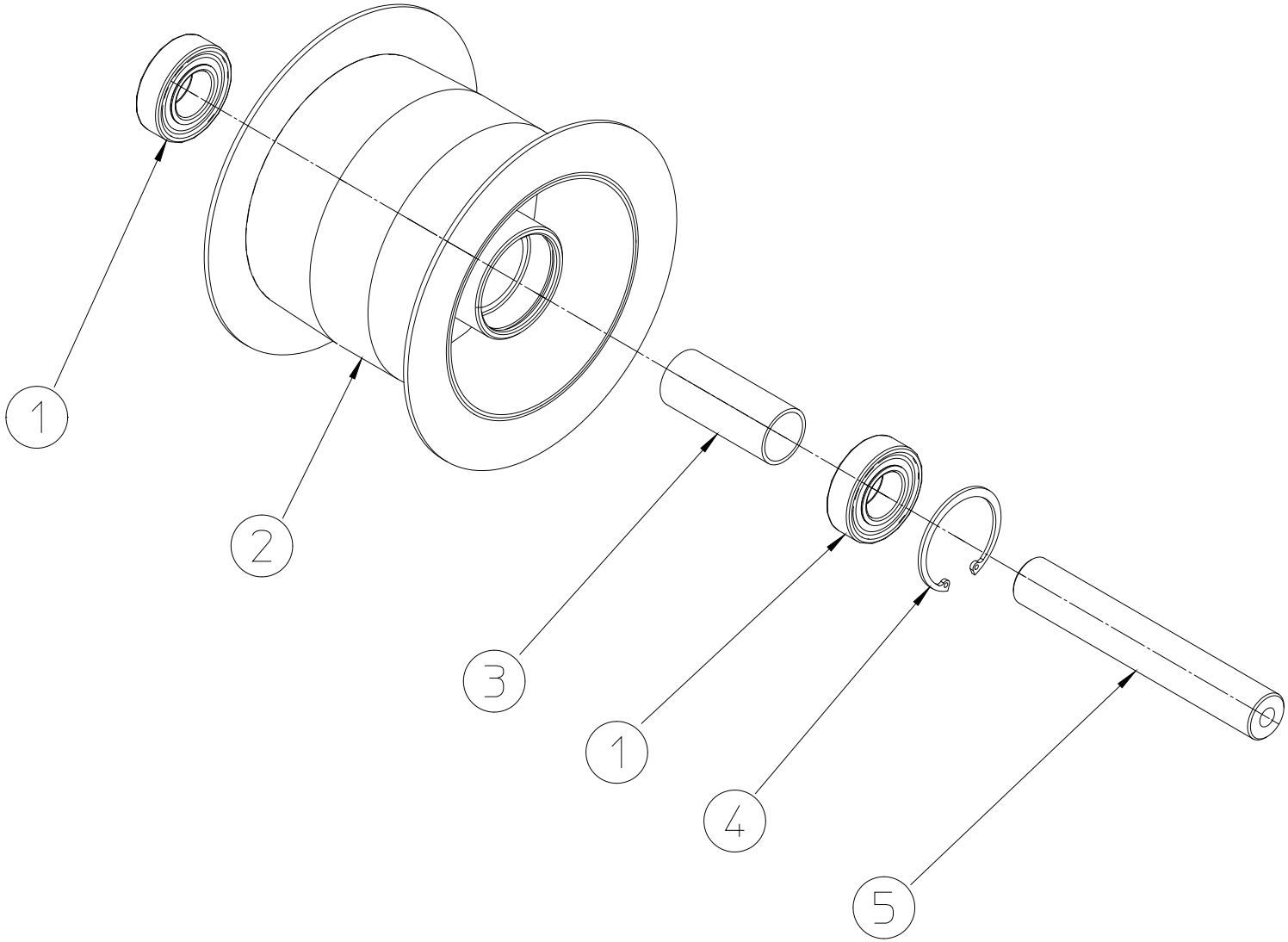
Number	Our reference	Name
15	00019907	Retaining ring
16	00022102	Ball bearing
17	00022797	Pulley
18	00011742	Bolt
19	00022796	Support
20	00022813	Upper grip belt
21	00022809	Right side member
22	00021647	Straight lubricator
23	00022097	Pillow block
24	00022737	Spacer sleeve
25	00015075	Key
26	00018499	Key
27	00022744	Axle
28	00022786	Driving pulley



U30-RK-0007

Press roller

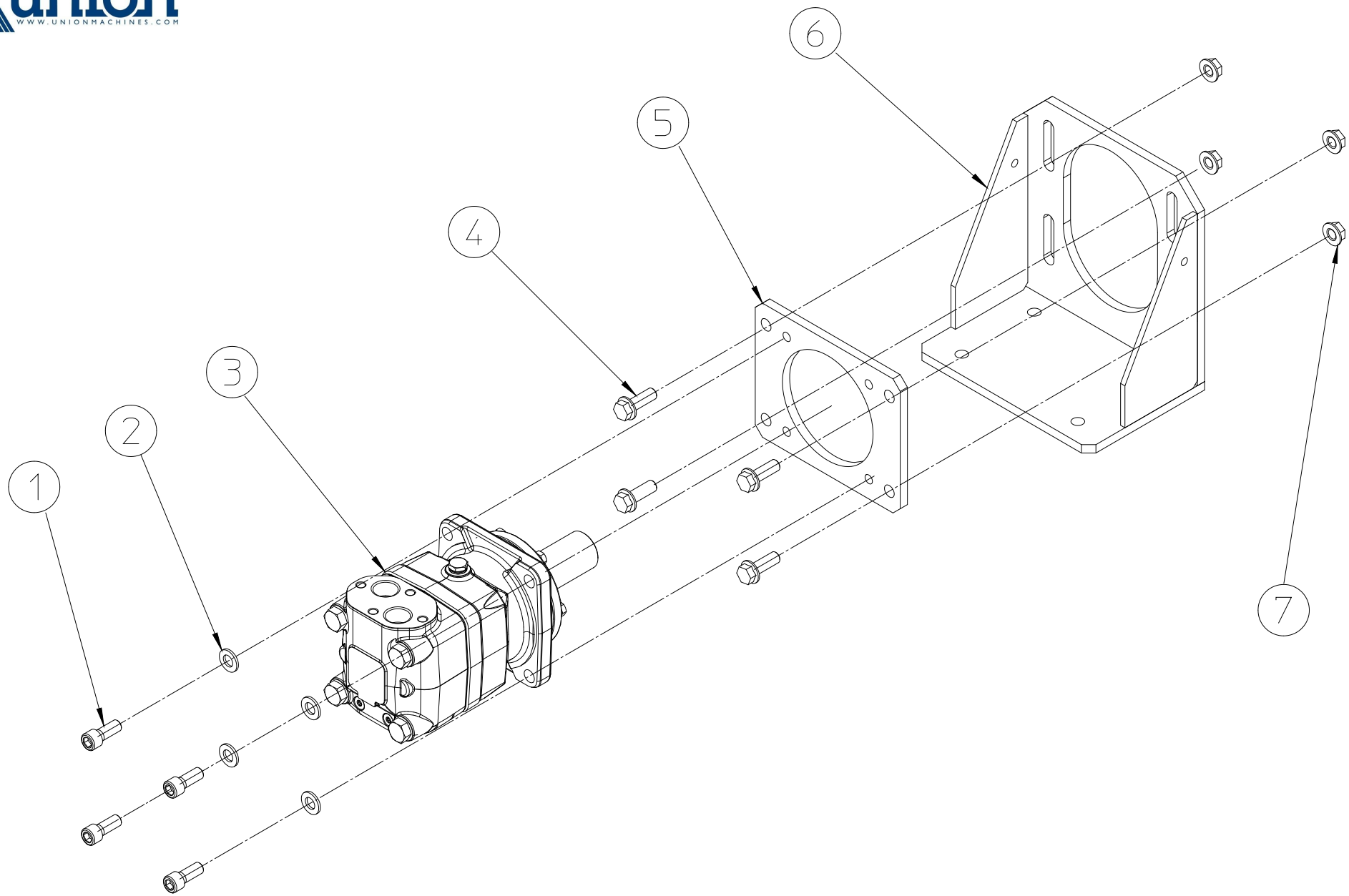
Number	Our reference	Name
1	00022822	Mounting bracket
2	00022823	Spring
3	00022824	Spring holder
4	00022096	Lock nut
5	00022827	Press fork
6	00022834	Press roll
7	00022830	Press boggy
8	00022094	Washer
9	00021733	Bolt



U30-RK-0008

Return pulley upper grip belt

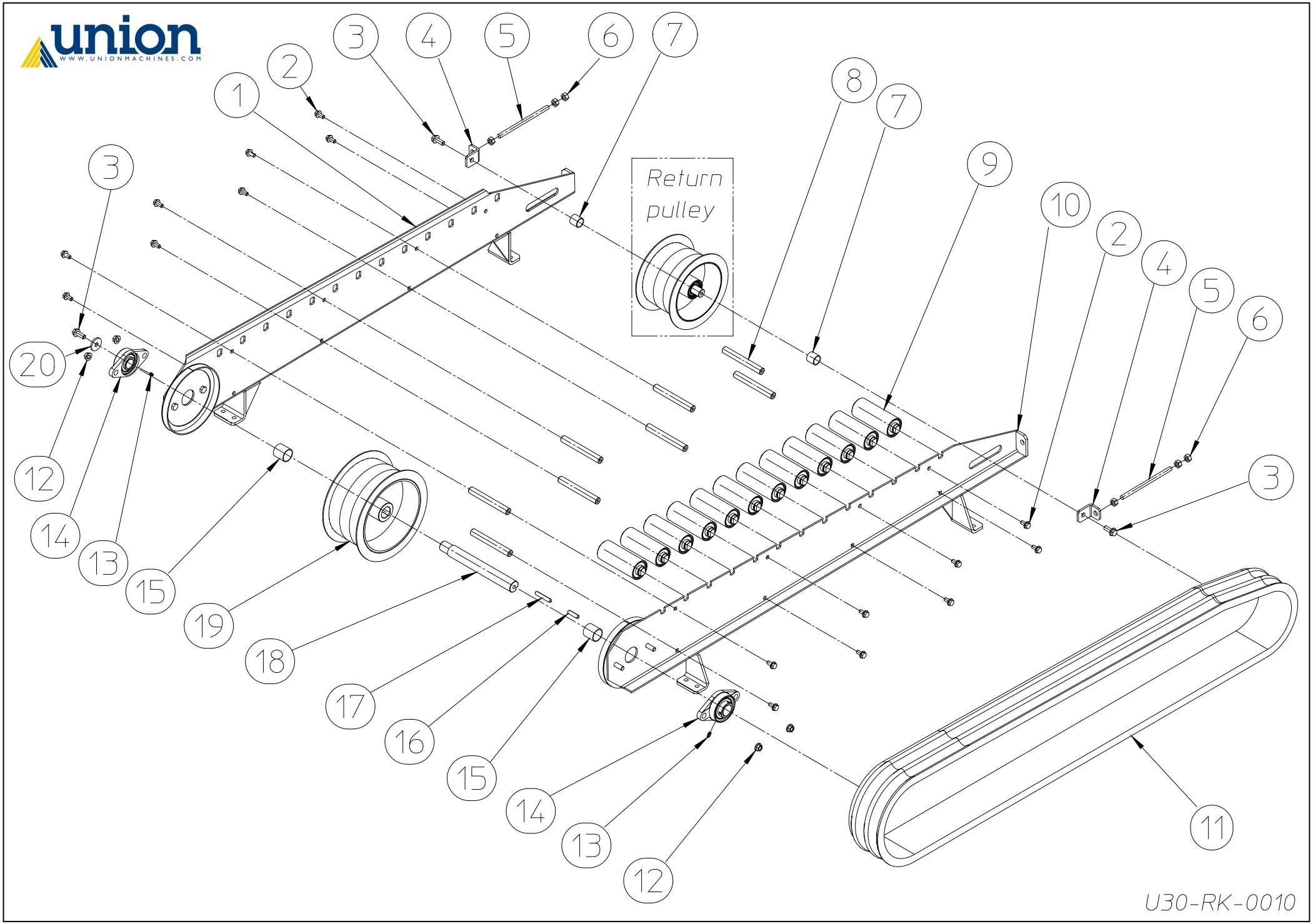
Number	Our reference	Name
1	00019219	Ball Bearing
2	00022817	Return pulley upper grip belt
3	00022730	Spacer sleeve
4	00022101	Retaining ring
5	00022764	Axle



U30-RK-0009

Hydraulic motor

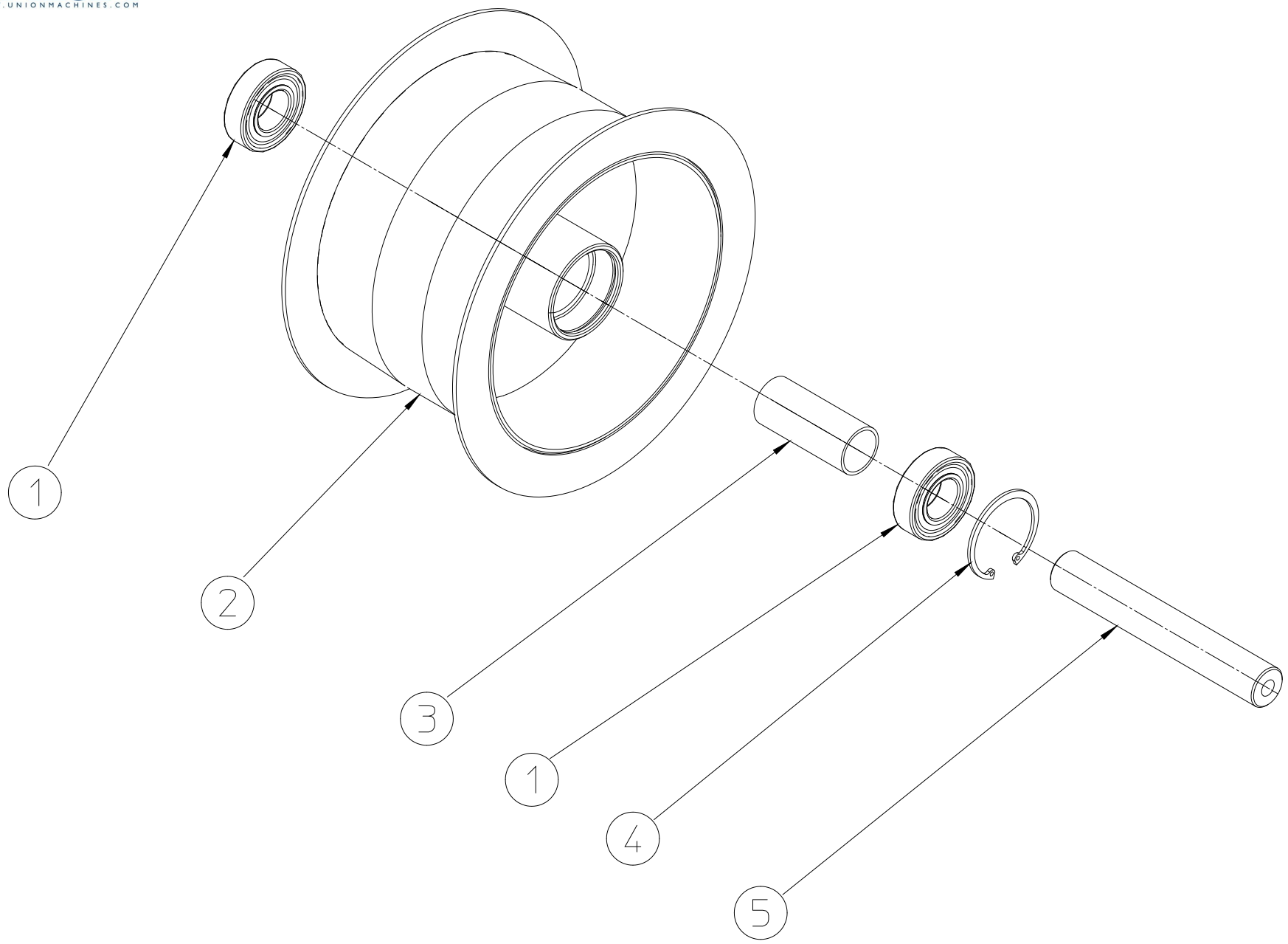
Number	Our reference	Name
1	00010939	Hexagon socket screw
2	00010474	Washer
3	00020038	Hydraulic motor
4	00011751	Bolt
5	00022966	Flange
6	00022965	Support


union
WWW.UNIONMACHINES.COM
Return pulley
U30-RK-0010

Lower grip belt

Number	Our reference	Name
1	00022762	Left side member
2	00011742	Bolt
3	00011750	Bolt
4	00022748	Tensioner
5	00022777	Rod
6	00010444	Nut
7	00022731	Spacer sleeve
8	00022746	Spacer
9	00022776	Press roll
10	00022758	Right side member

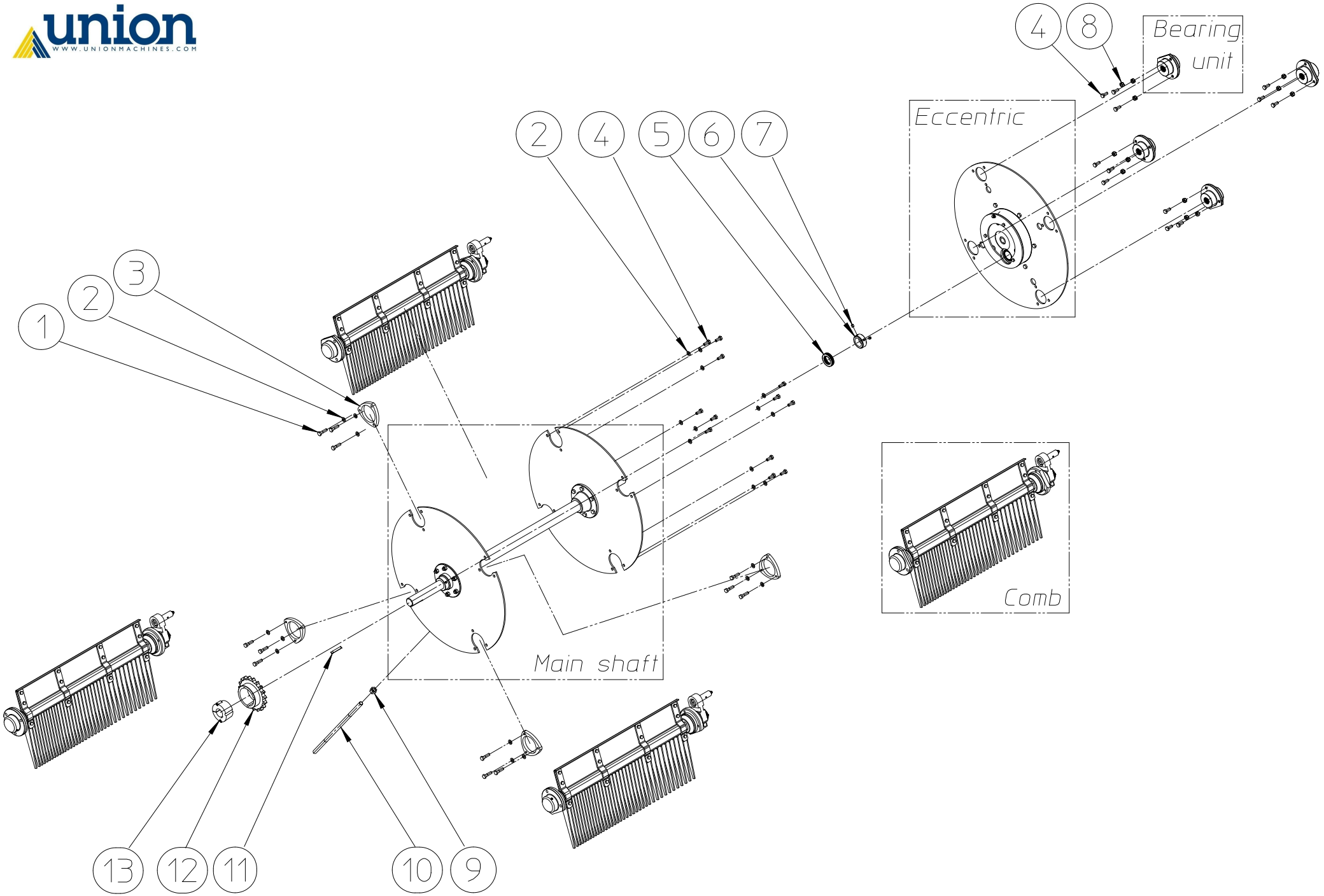
Number	Our reference	Name
11	00022763	Lower grip belt
12	00011772	Nut
13	00021647	Straight lubricator
14	00022097	Pillow block
15	00022732	Spacer sleeve
16	00015075	Key
17	00018499	Key
18	00022744	Axle
19	00022785	Driving pulley
20	00022729	Washer



U30-RK-0011

Return pulley lower grip belt

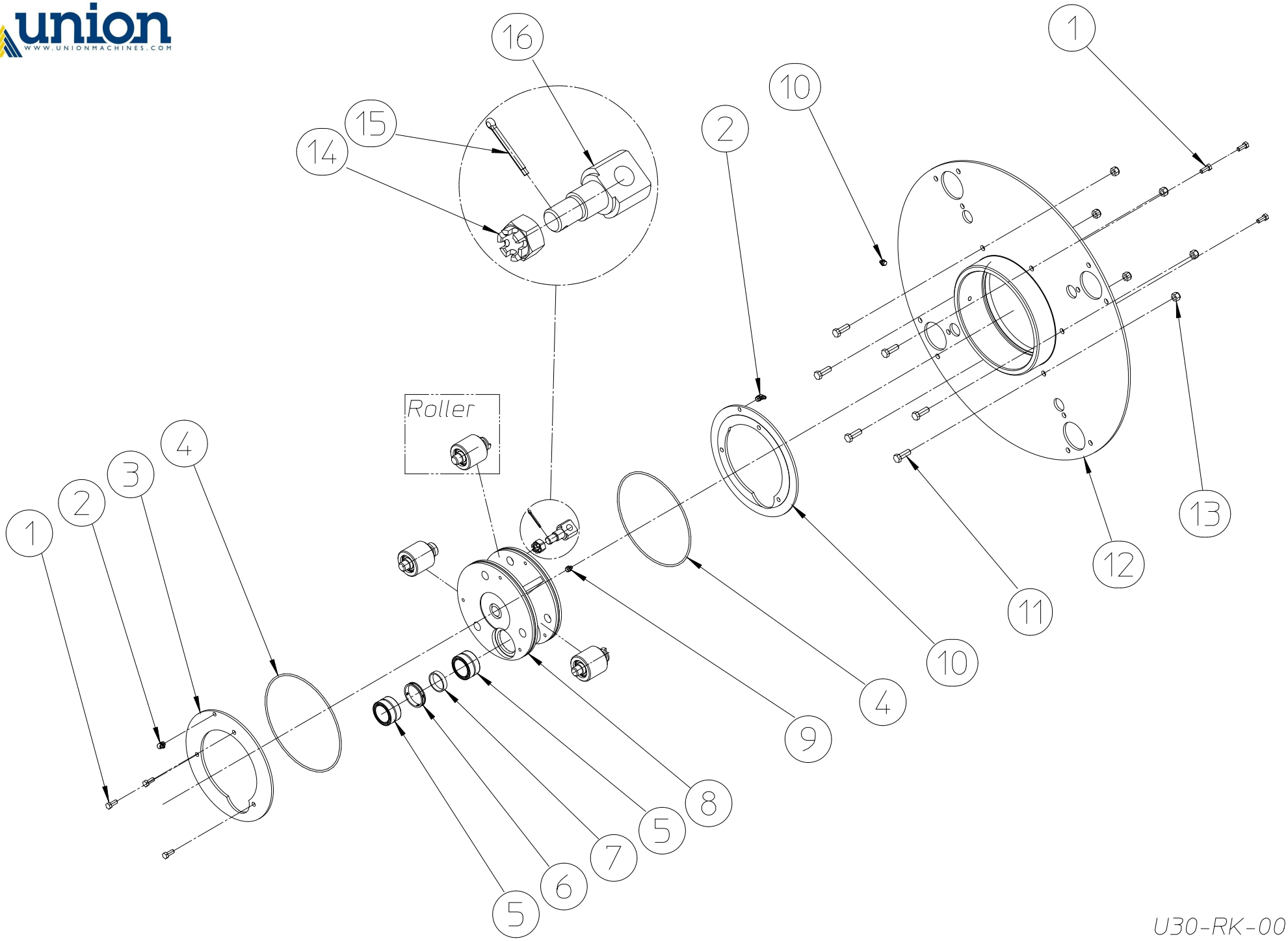
Number	Our reference	Name
1	00019219	Ball Bearing
2	00022770	Return pulley lower grip belt
3	00022730	Spacer sleeve
4	00022101	Retaining ring
5	00022764	Axle


union
WWW.UNIONMACHINES.COM
4
8
Bearing unit
Eccentric
2
4
5
6
7
1
2
3
Main shaft
Comb
13
12
11
10
9

U30-RK-0012

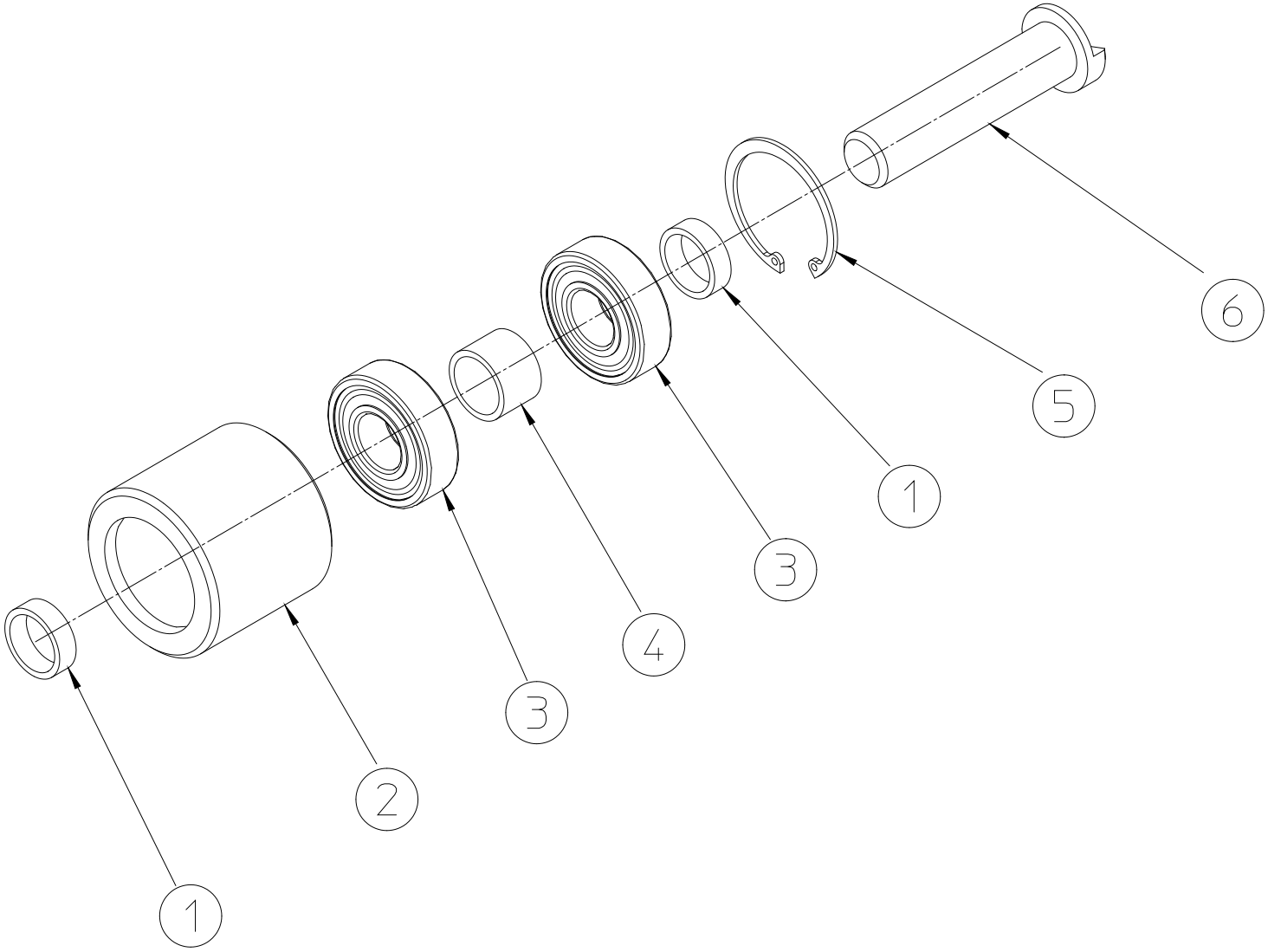
Comb

Number	Our reference	Name
1	00022303	Bolt
2	00010030	Washer
3	00022883	Flange
4	00022304	Bolt
5	00022260	Bearing
6	00022881	Bush
7	00022263	Hexagon socket set screw
8	00019766	Nut
9	00010029	Nut
10	00022882	Rod
11	00020598	Key
12	00020651	Pinion
13	00020651	Taper bush


union
WWW.UNIONMACHINES.COM
Roller
U30-RK-0013

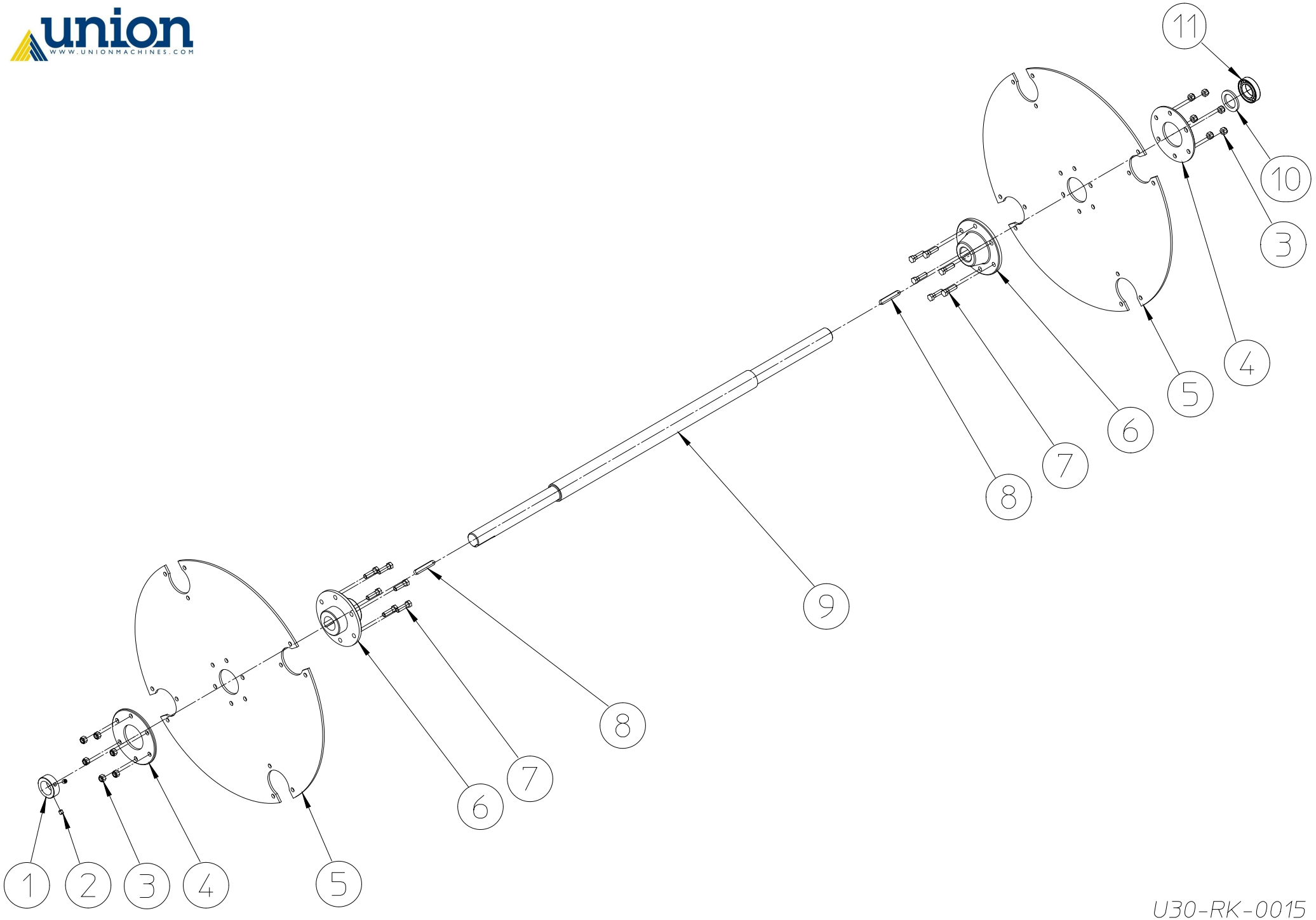
Eccentric

Number	Our reference	Name
1	00010636	Bolt
2	00021663	90° lubricator
3	00022934	Flange
4	00022339	O-ring
5	00022262	Bearing
6	00022950	Spacer sleeve
7	00022271	Spacer sleeve
8	00022948	Eccentric core
9	00012326	Straight lubricator
10	00022932	Flange
11	00022380	Bolt
12	00022957	Eccentric flange
13	00022255	Nut
14	00022938	Nut
15	00022549	Cotter pin
16	00022937	Pin


6
5
1
3
4
3
2
1

Roller

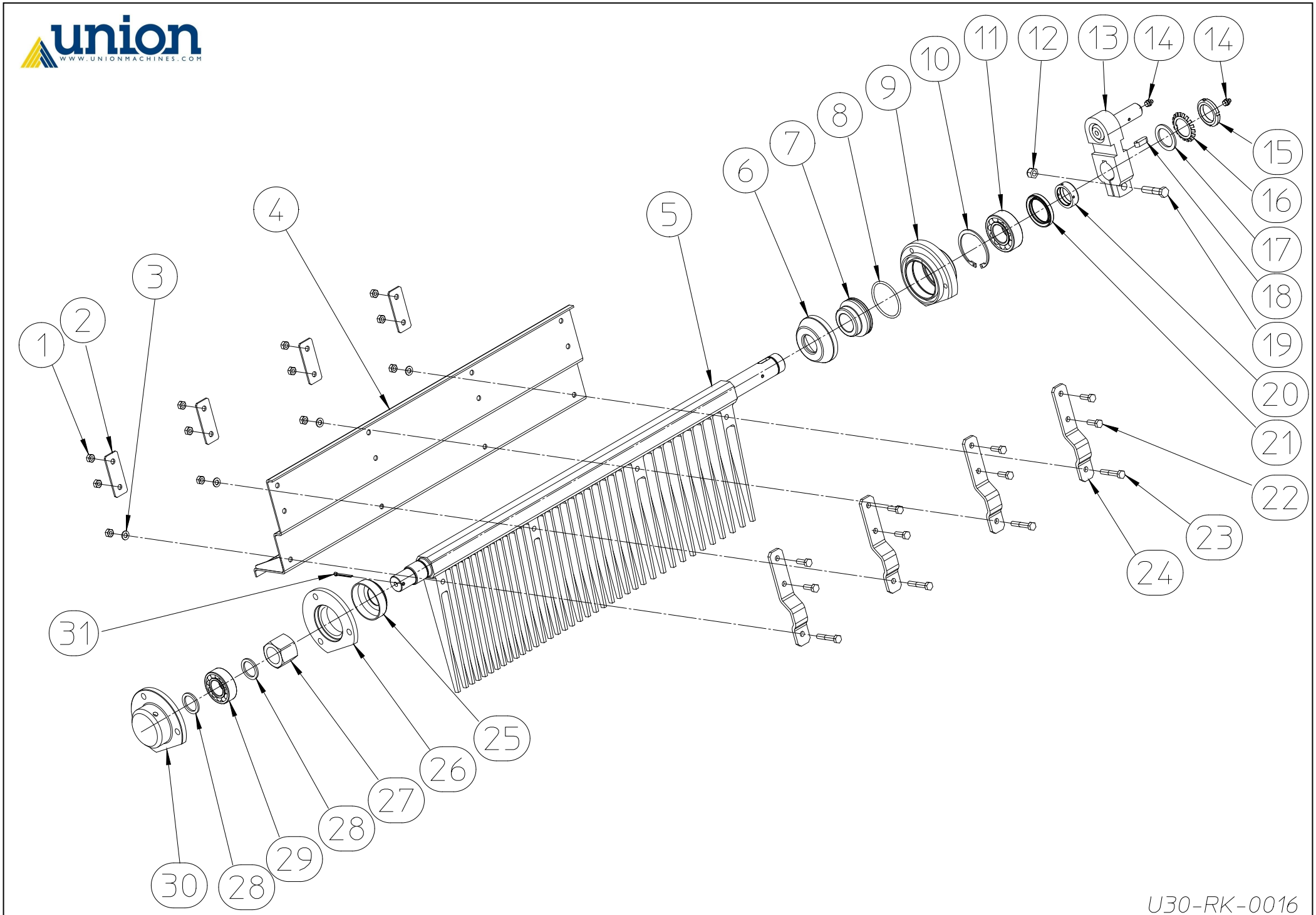
Number	Our reference	Name
1	00022269	Spacer bushing
2	00022939	Roller
3	00018877	Ball bearing
4	00022268	Spacer sleeve
5	00018878	Retaining ring
6	00022952	Axle



U30-RK-0015

Main Shaft

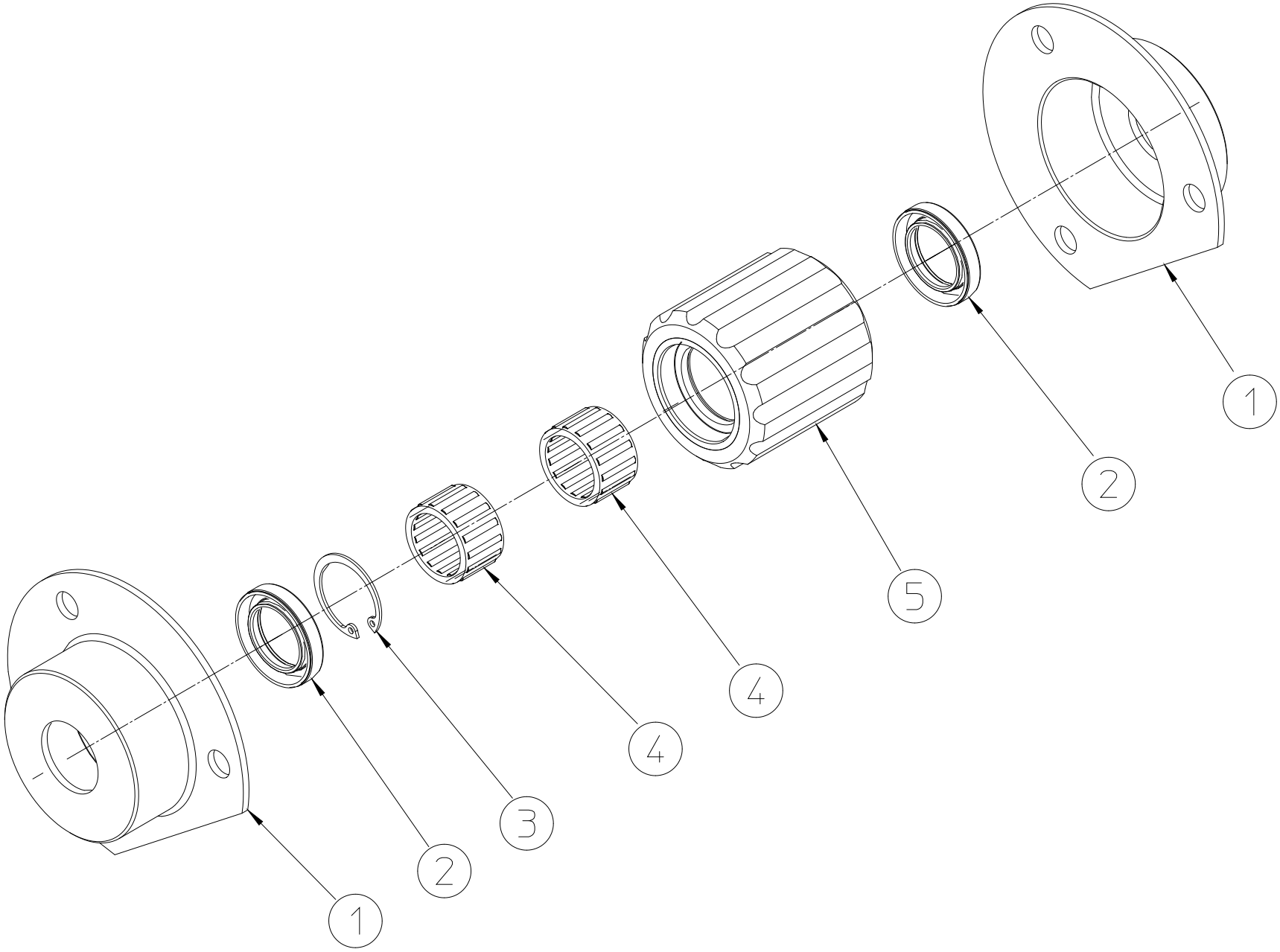
Number	Our reference	Name
1	00022881	Bush
2	00022263	Hexagon socket set screw
3	00022255	Lock nut
4	00022930	Flange
5	00022928	Flange
6	00022923	Flange
7	00022919	Bolt
8	00022920	Key
9	00023836	Main shaft
10	00022267	Washer
11	00022261	Ball bearing


union
WWW.UNIONMACHINES.COM
1
2
3
4
5
6
7
8
9
10
11
12
13
14
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
28
30
31
U30-RK-0016

Comb

Number	Our reference	Name
1	00022294	Nut
2	00022909	Plate
3	00022900	Washer
4	00017708	Comb support
5	00022917	Comb
6	00022902	Cover
7	00022904	Bush
8	00022910	O-ring
9	00022911	Bearing housing
10	00022258	Retaining ring
11	00022257	Bearing
12	00022255	Nut
13	00022916	Crank
14	00012326	Straight lubricator
15	00022006	Lock nut
16	00022007	Lock ring

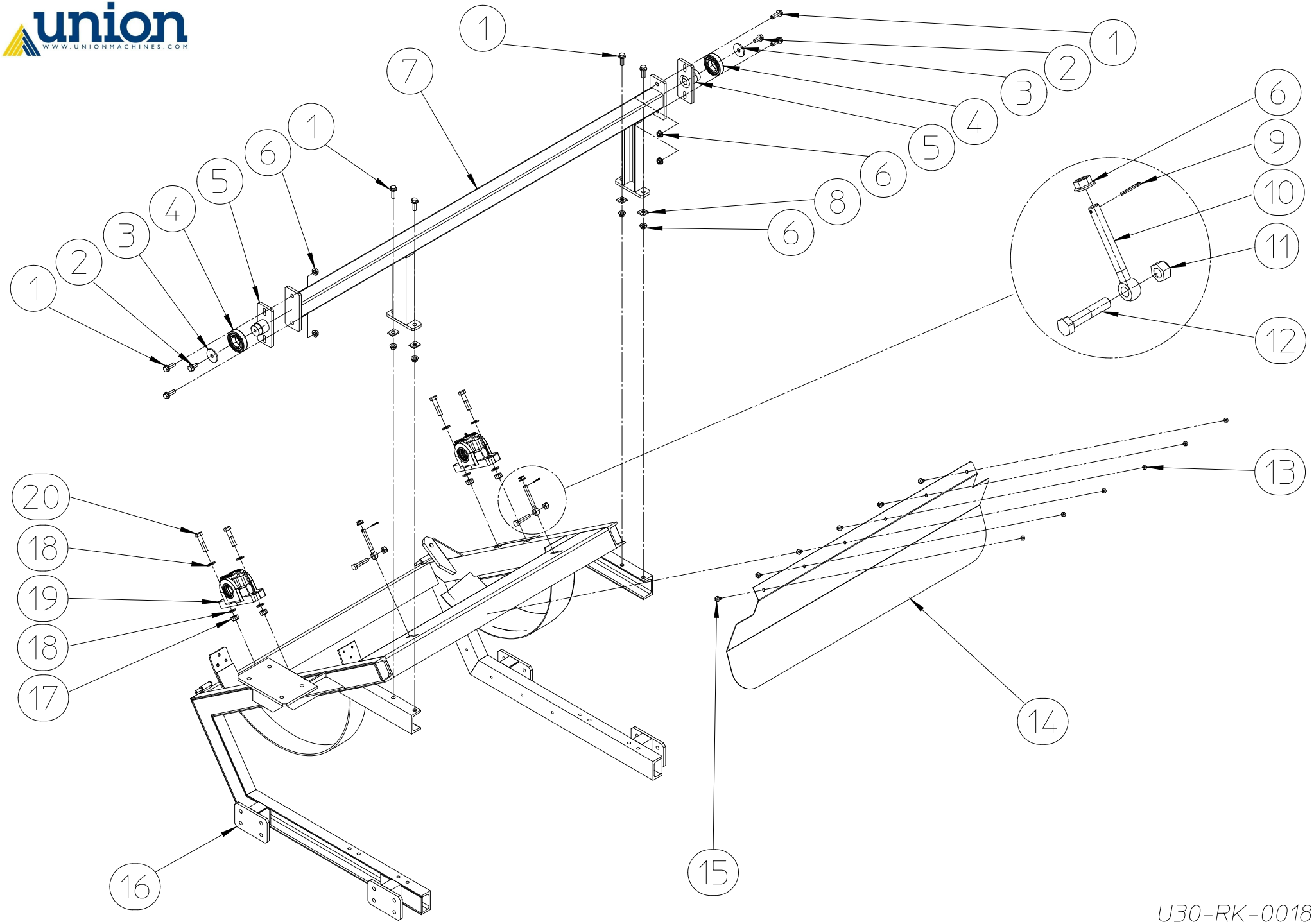
Number	Our reference	Name
17	00022266	Washer
18	00022899	Key
19	00022256	Bolt
20	00022905	Spacer sleeve
21	00022259	Seal
22	00022295	Bolt
23	00022293	Bolt
24	00022908	Bracket
25	00022903	Cover
26	00022907	Flange
27	00022901	Nut
28	00022265	Washer
29	00022264	Bearing
30	00022906	Bearing housing
31	00018554	Cotter pin



U30-RK-0017

Bearing unit

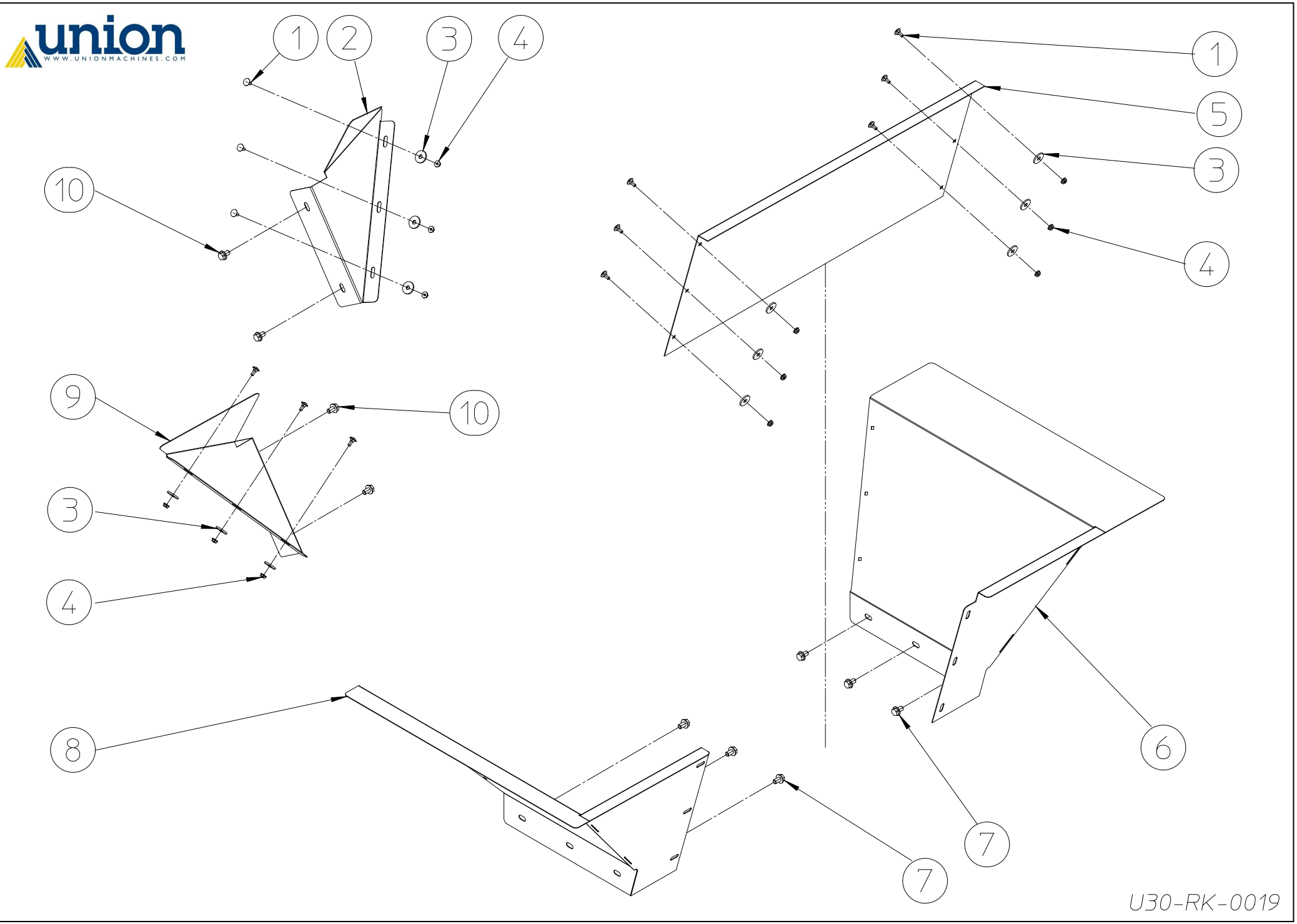
Number	Our reference	Name
1	00022877	Cover
2	00022252	Seal
3	00022254	Retaining ring
4	00022253	Bearing
5	00022879	Bearing housing


union
WWW.UNIONMACHINES.COM
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
U30-RK-0018

Frame

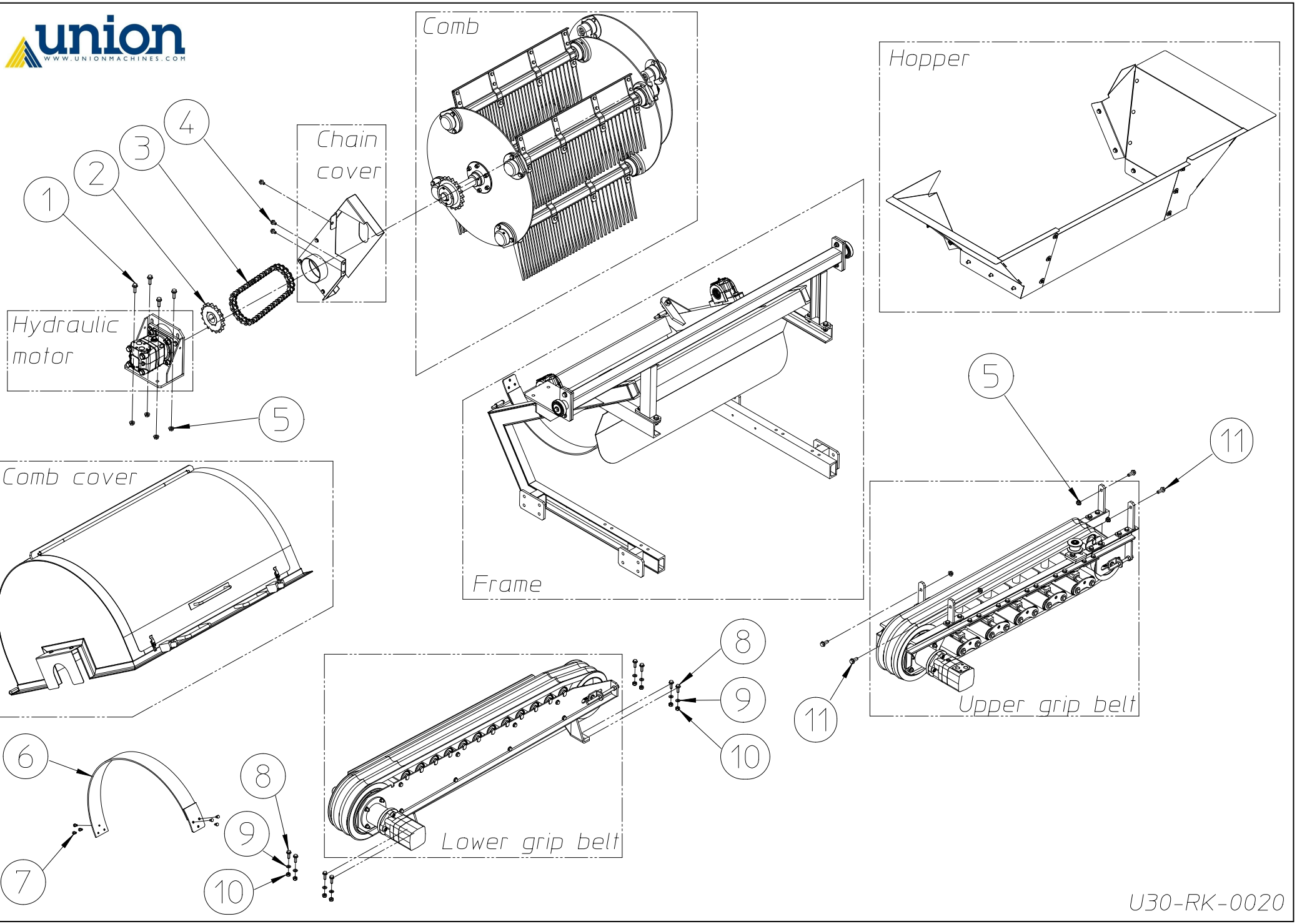
Number	Our reference	Name
1	00011751	Bolt
2	00011751	Bolt
3	00023140	Washer
4	00019366	Ball bearing
5	00023173	Trunnion
6	00011772	Nut
7	00023170	Upper frame
8	00015746	Taper washer
9	00022839	Cotter pin
10	00022875	Eye bolt

Number	Our reference	Name
11	00012303	Lock nut
12	00011948	Bolt
13	00010249	Nut
14	00022842	Cover
15	00011734	Bolt
16	00022874	Frame
17	00020292	Lock nut
18	00010506	Washer
19	00022180	Pillow block
20	00017060	Bolt


union
WWW.UNIONMACHINES.COM
1
2
3
4
10
1
5
3
4
9
10
3
4
8
7
7
6
U30-RK-0019

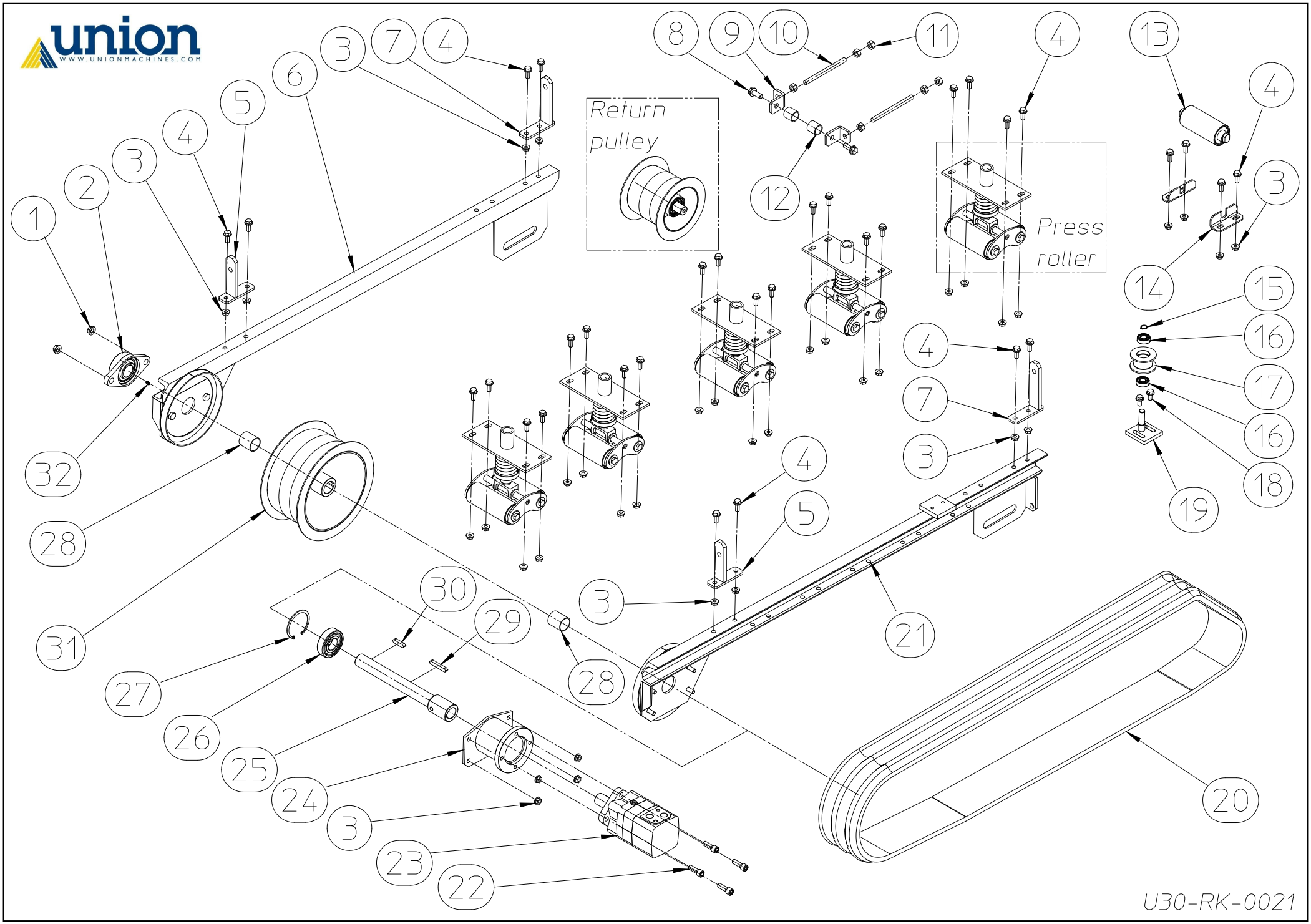
Hopper

Number	Our reference	Name
1	00014493	Bolt
2	00023155	Right corner hopper
3	00012384	Washer
4	00011769	Nut
5	00023154	Front hopper
6	00023158	Right hopper
7	00011741	Bolt
8	00023163	Left hopper
9	00023160	Left corner hopper
10	00011741	Bolt


union
WWW.UNIONMACHINES.COM
Comb
Hopper
Chain cover
1
2
3
4
Hydraulic motor
5
Frame
Comb cover
5
11
Upper grip belt
11
8
9
10
Lower grip belt
6
7
8
9
10
U30-RK-0020

Comb Unit driving

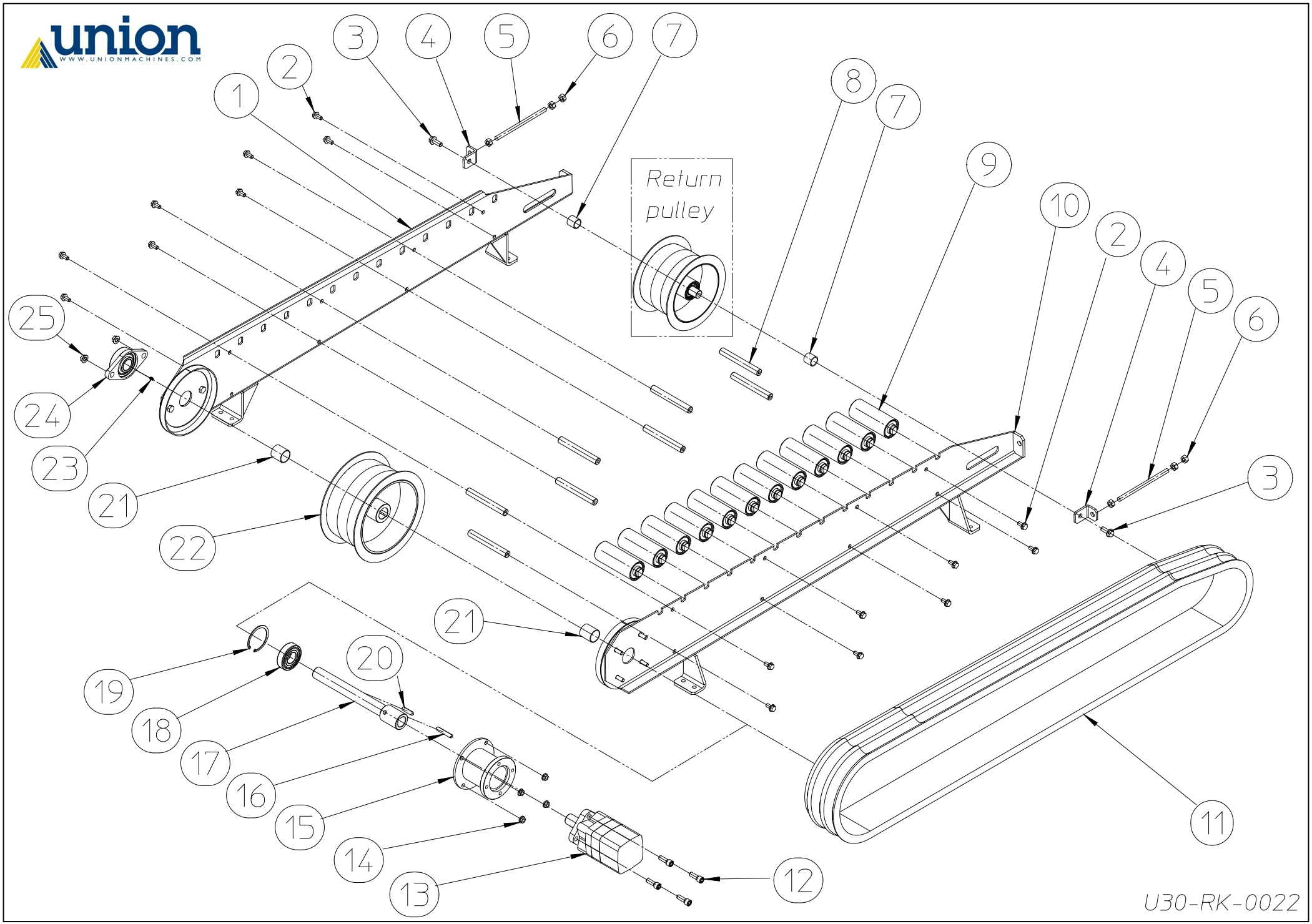
Number	Our reference	Name
1	00011751	Bolt
2	00022961	Pinion
3	00022962	Chain
4	00011741	Bolt
5	00011772	Nut
6	00022873	Arc
7	00012382	Bolt
8	00011744	Bolt
9	00010030	Washer
10	00019766	Nut
11	00011750	Bolt


union
WWW.UNIONMACHINES.COM
Return pulley
Press roller
U30-RK-0021

Upper grip belt driving

Number	Our reference	Name
1	00011772	Nut
2	00022097	Pillow block
3	00011771	Nut
4	00011743	Bolt
5	00022793	Support
6	00023203	Left side member
7	00022790	Support
8	00011750	Bolt
9	00022748	Tensioner
10	00022837	Rod
11	00010444	Nut
12	00022734	Spacer sleeve
13	00022800	Supporting roll
14	00022801	Support
15	00019907	Retaining ring
16	00022102	Ball bearing

Number	Our reference	Name
17	00022797	Pulley
18	00011742	Bolt
19	00022796	Support
20	00022813	Upper grip belt
21	00023202	Right side member
22	00020144	Hexagonal socket screw
23	00011371	Hydraulic motor
24	00023205	Support
25	00023197	Axle
26	00017317	Ball bearing
27	00010827	Retaining ring
28	00022736	Spacer sleeve
29	00018499	Key
30	00015075	Key
31	00022786	Driving pulley
32	00021647	Straight lubricator

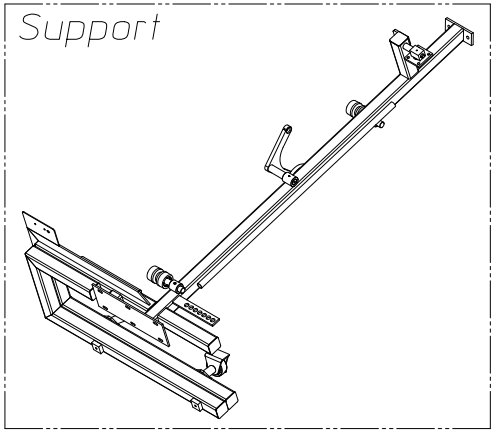

union
WWW.UNIONMACHINES.COM
Return pulley
U30-RK-0022

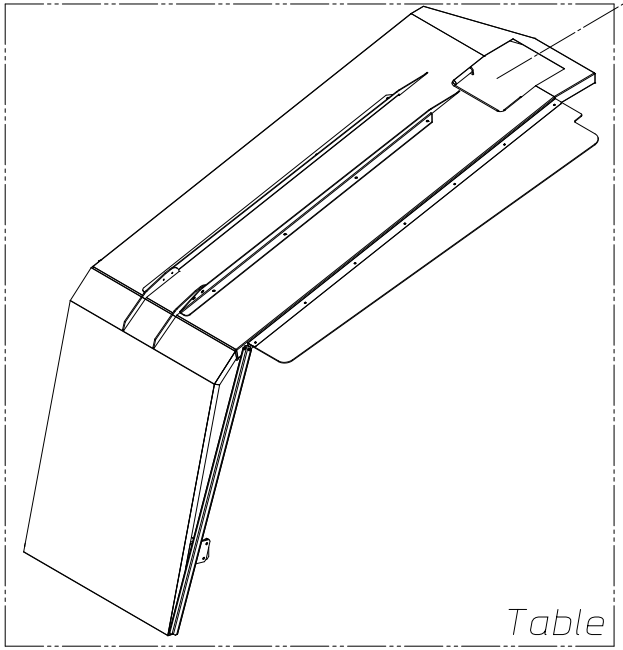
Lower grip belt driving

Number	Our reference	Name
1	00023193	Left side member
2	00011742	Bolt
3	00011750	Bolt
4	00022748	Tensioner
5	00022777	Rod
6	00010444	Nut
7	00022731	Spacer sleeve
8	00022746	Spacer
9	00022776	Press roll
10	00023191	Right side member
11	00022763	Lower grip belt
12	00020144	Hexagon socket bolt
13	00011371	Hydraulic motor

Number	Our reference	Name
14	00011771	Nut
15	00023196	Support
16	00018499	Key
17	00023197	Axle
18	00017317	Ball bearing
19	00010827	Retaining ring
20	00015075	Key
21	00023199	Spacer sleeve
22	00022786	Driving pulley
23	00021647	Straight lubricator
24	00022097	Pillow block
25	00011772	Nut

Support

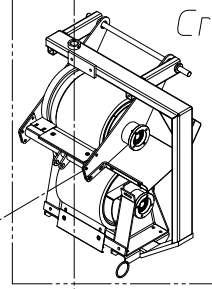




Table

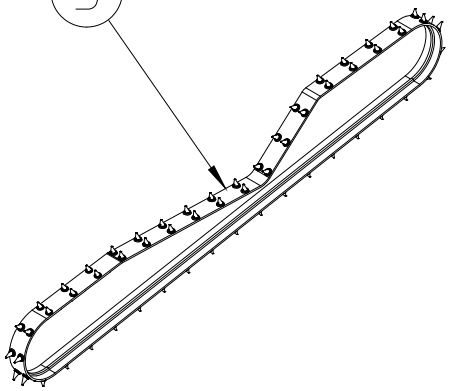
1

Crushing rolls



2

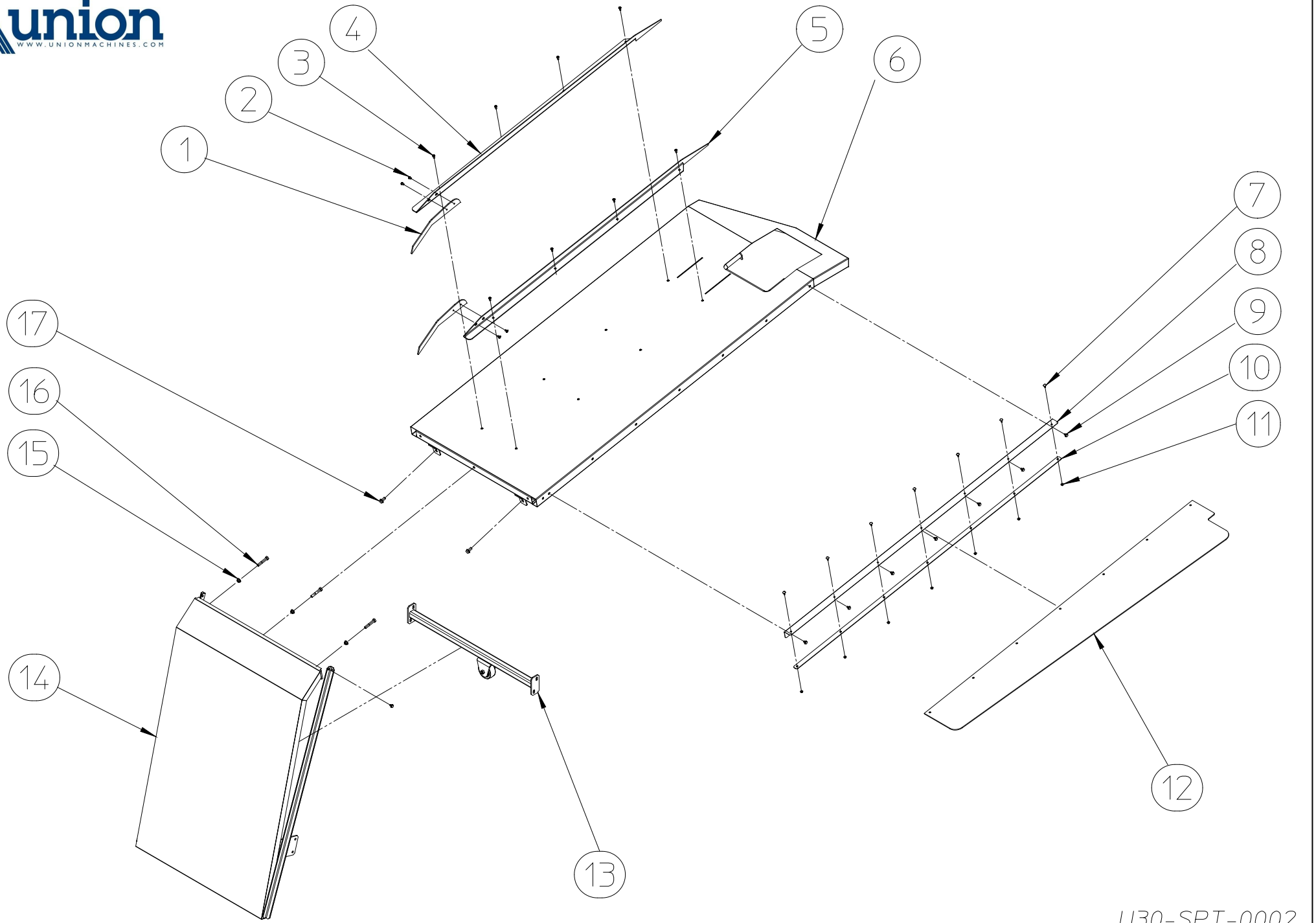
3



U30-SPT-0001

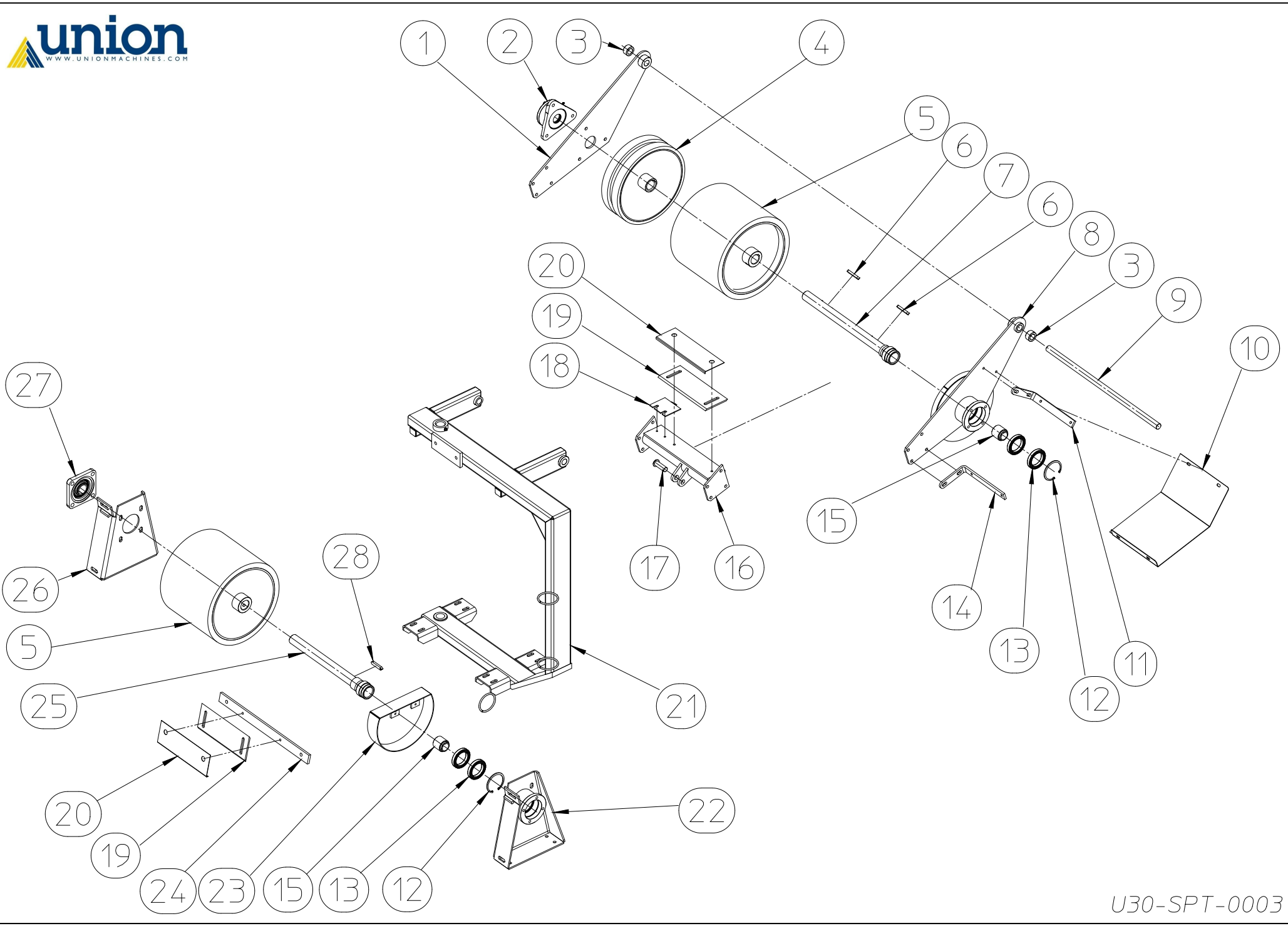
Short spreading table

Number	Our reference	Name
1		Upper pivot
2		Lower pivot
3		Belt


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
U30-SPT-0002

Table

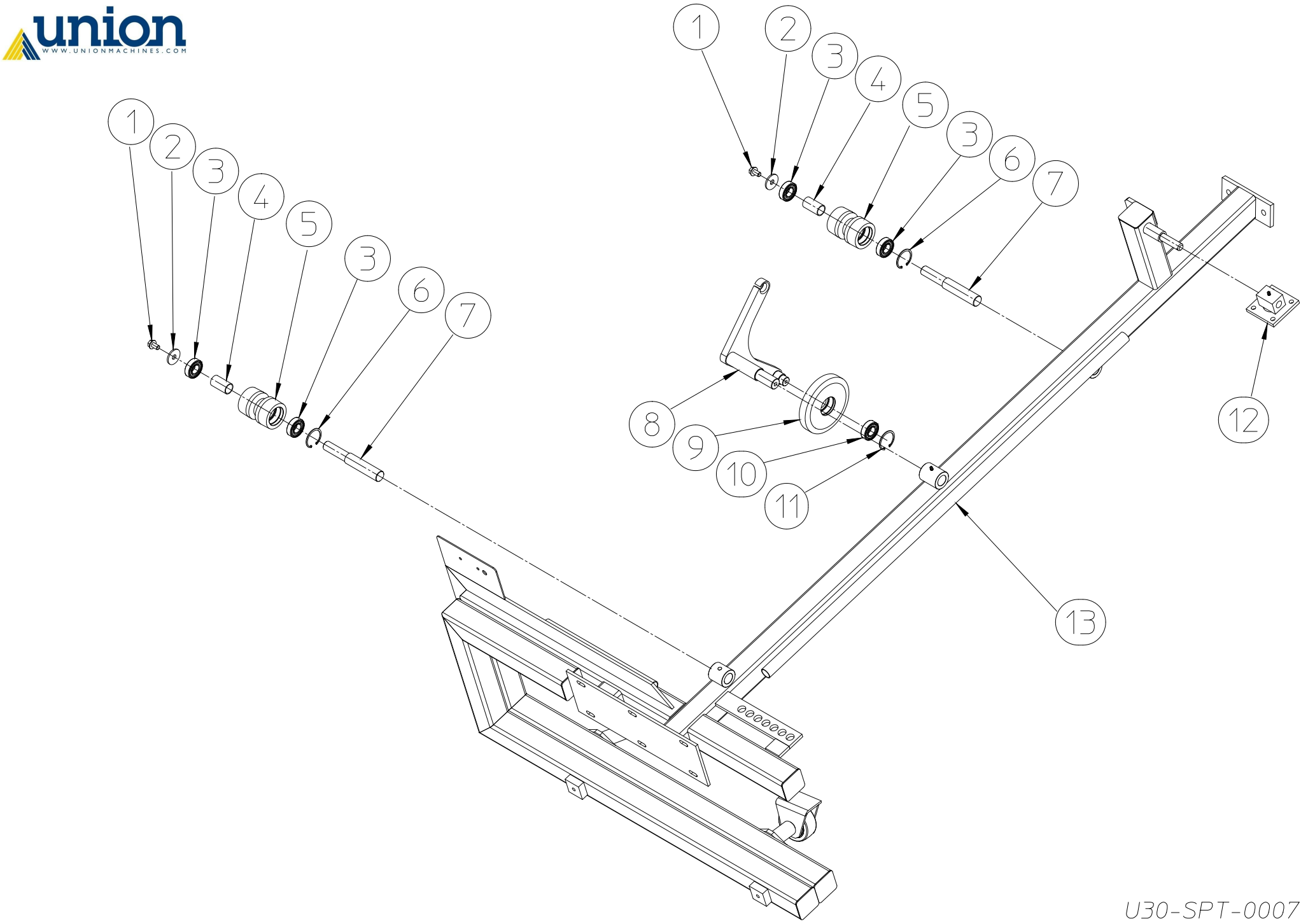
Number	Our reference	Name
1	00020577	Flax guide
2	00010845	Bolt
3	00013531	Bolt
4	00023897	Flax guide
5	00023896	Flax guide
6	00023893	Short table
7	00014493	Bolt
8	00023898	Angle bar
9	00011733	Bolt
10	00023894	bar
11	00011769	Nut
12	00023895	Rubber mat
13	00023889	Wheel
14	00023880	Unload table
15	00011772	Nut
16	00021209	Bolt
17	00011749	Bolt


1
2
3
4
5
6
7
6
8
3
9
10
20
19
18
27
26
5
25
28
17
16
15
14
13
12
11
21
20
19
24
23
15
13
12
22
U30-SPT-0003

Crushing rolls

Number	Our reference	Name
1	00022441	Left side member
2	00021870	Pillow block
3	00022445	Spacer sleeve
4	00022451	Pulley
5		Pulley
6	00022920	Key
7		Axle
8	00022437	Right side member
9	00022446	Shaft
10	00022463	Cover
11	00022460	Bracket
12	00022431	Retaining ring
13	00021771	Bearing
14	00022460	Bracket

Number	Our reference	Name
15	00022464	Joint
16		Support
17	00022430	Pin
18	00022462	Scraper
19		Scraper knife
20		Cover
21		Chassis
22	00022557	Bearing support
23	00022482	Cover
24		Bar
25		Axle
26	00022475	Bearing support
27	00021876	Pillow block
28	00011386	Key

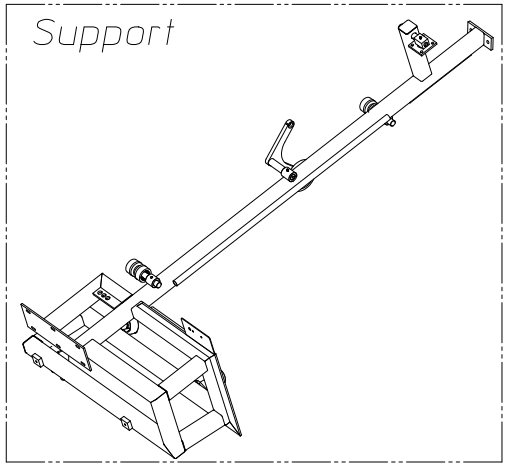


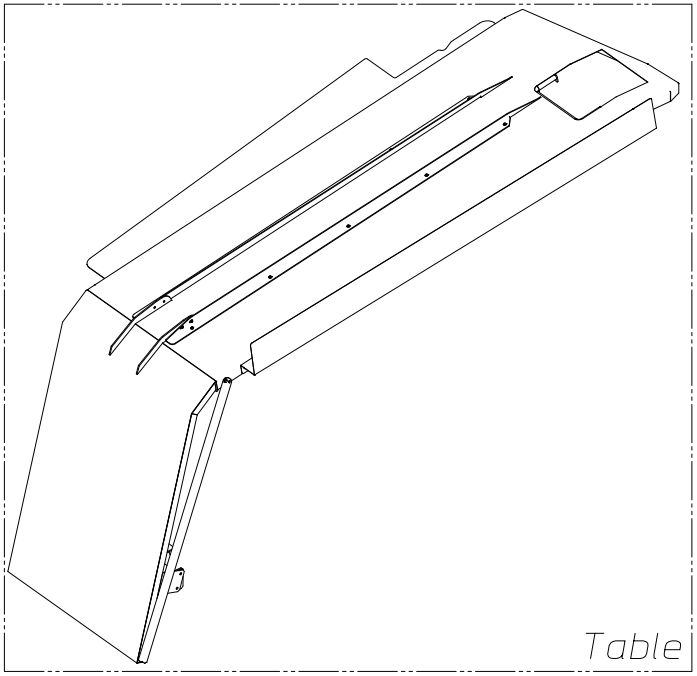
U30-SPT-0007

Support

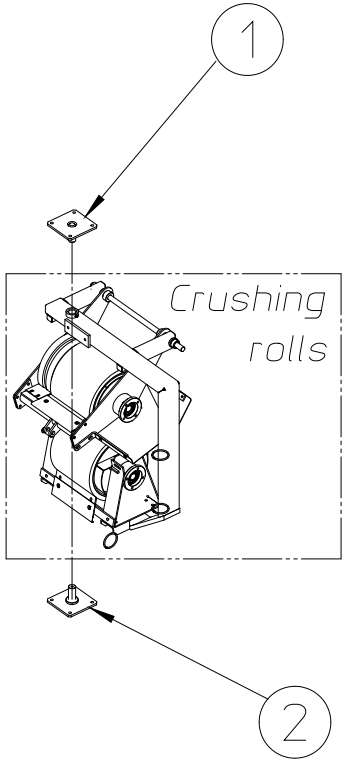
Number	Our reference	Name
1	00011748	Bolt
2	00010027	Washer
3	00019219	Bearing
4	00022139	Spacer sleeve
5	00022513	Pulley
6	00022101	Retaining ring
7	00022512	Axle
8		Tensioner
9	00022506	Wheel
10	00019219	Bearing
11	00022587	Retaining ring
12	00022504	Cylinder mount
13		Support

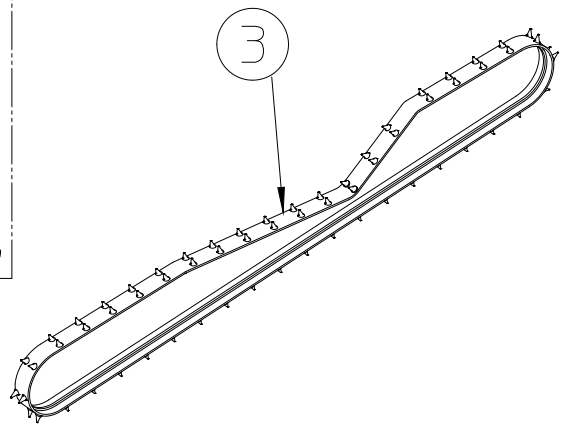
Support





Table

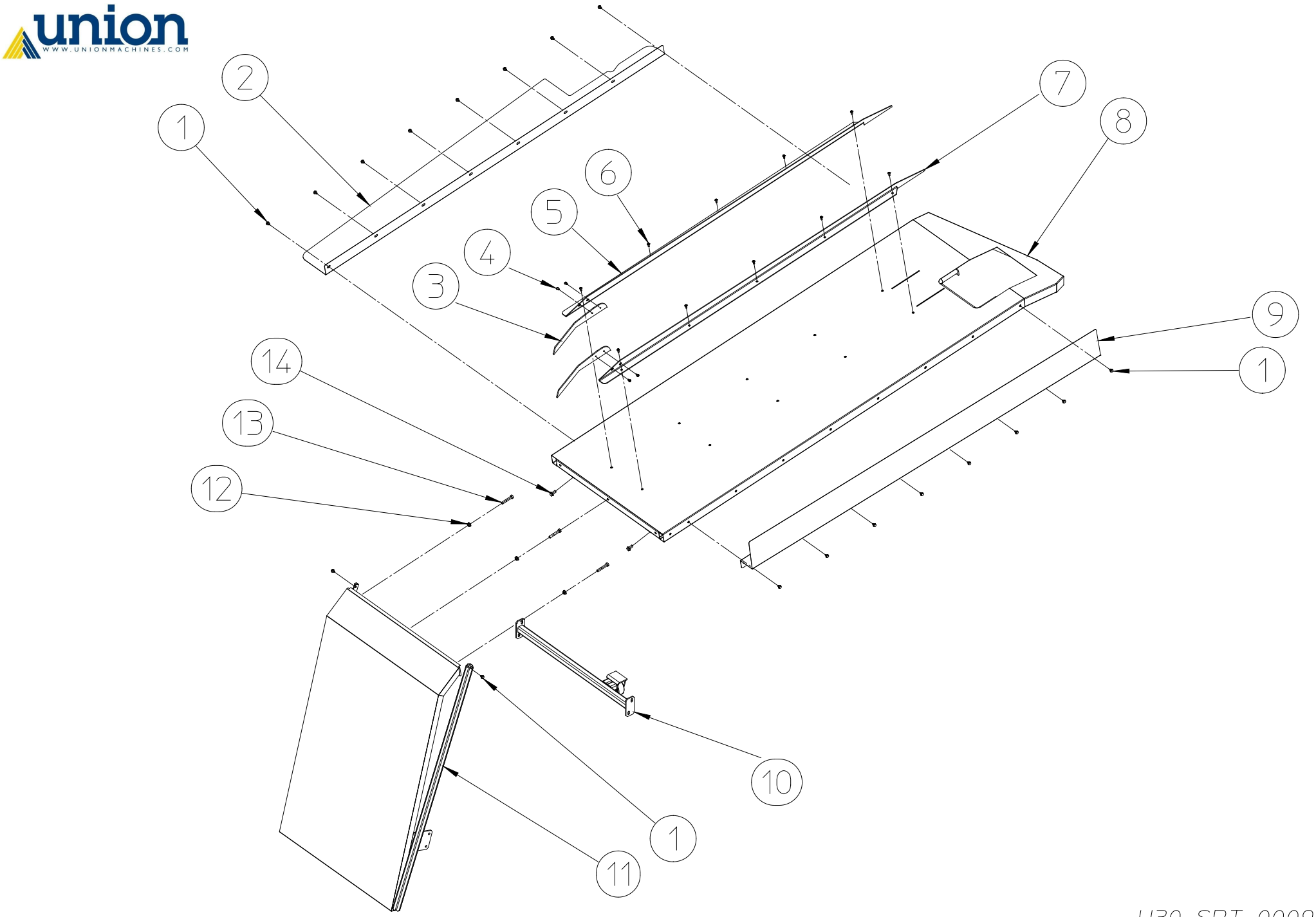




U30-SPT-0008

Long spreading table

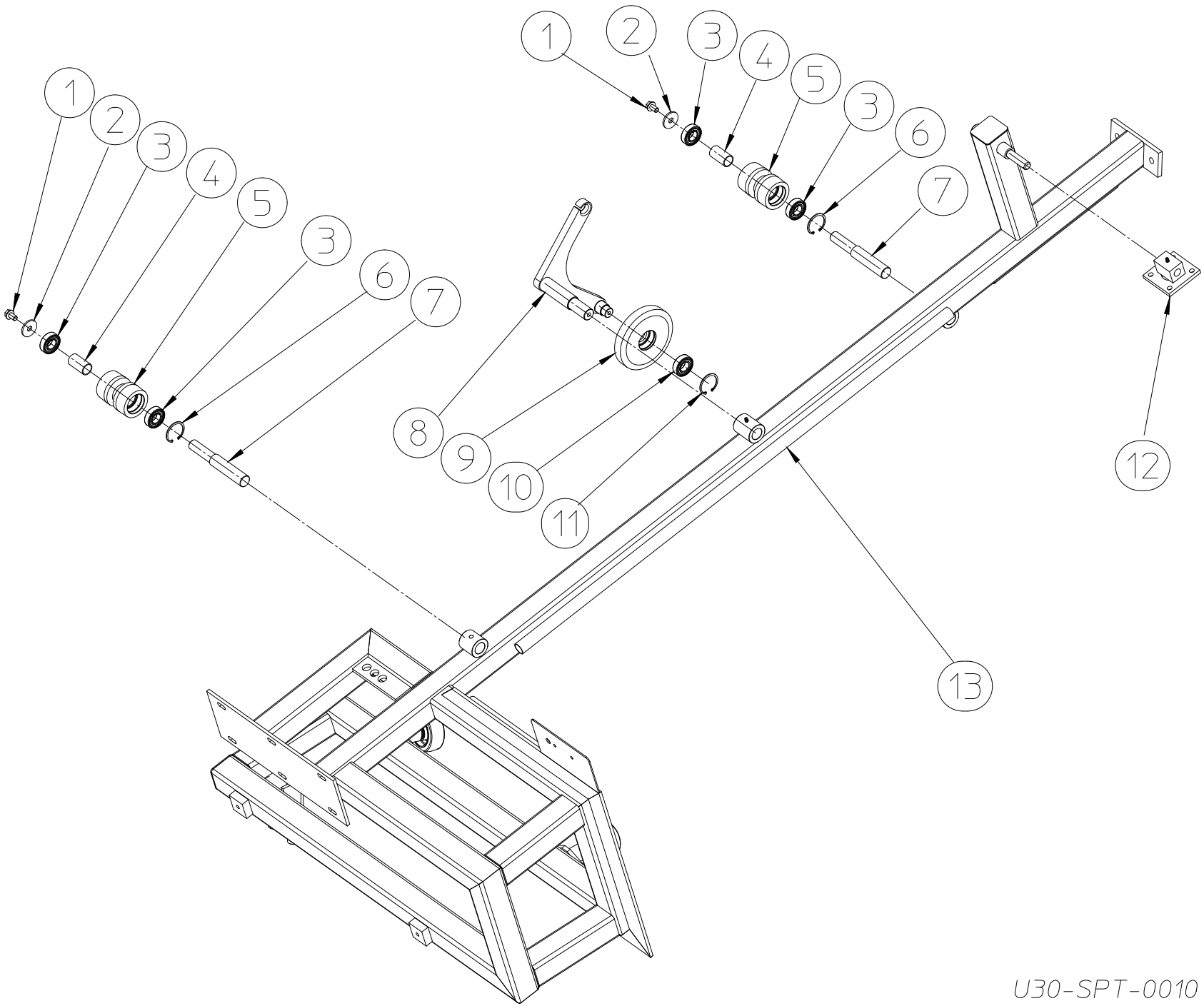
Number	Our reference	Name
1		Upper pivot
2		Lower pivot
3		Belt



U30-SPT-0009

Table

Number	Our reference	Name
1	00011733	Bolt
2	00023872	Cover
3	00020577	Flax guide
4	00010845	Bolt
5	00023871	Flax guide
6	00013531	Bolt
7	00023870	Flax guide
8	00023869	Table
9	00023873	Cover
10	00023850	Support
11	00023880	Unload table
12	00011772	Nut
13	00021209	Bolt
14	00011749	Bolt



U30-SPT-0010

Support

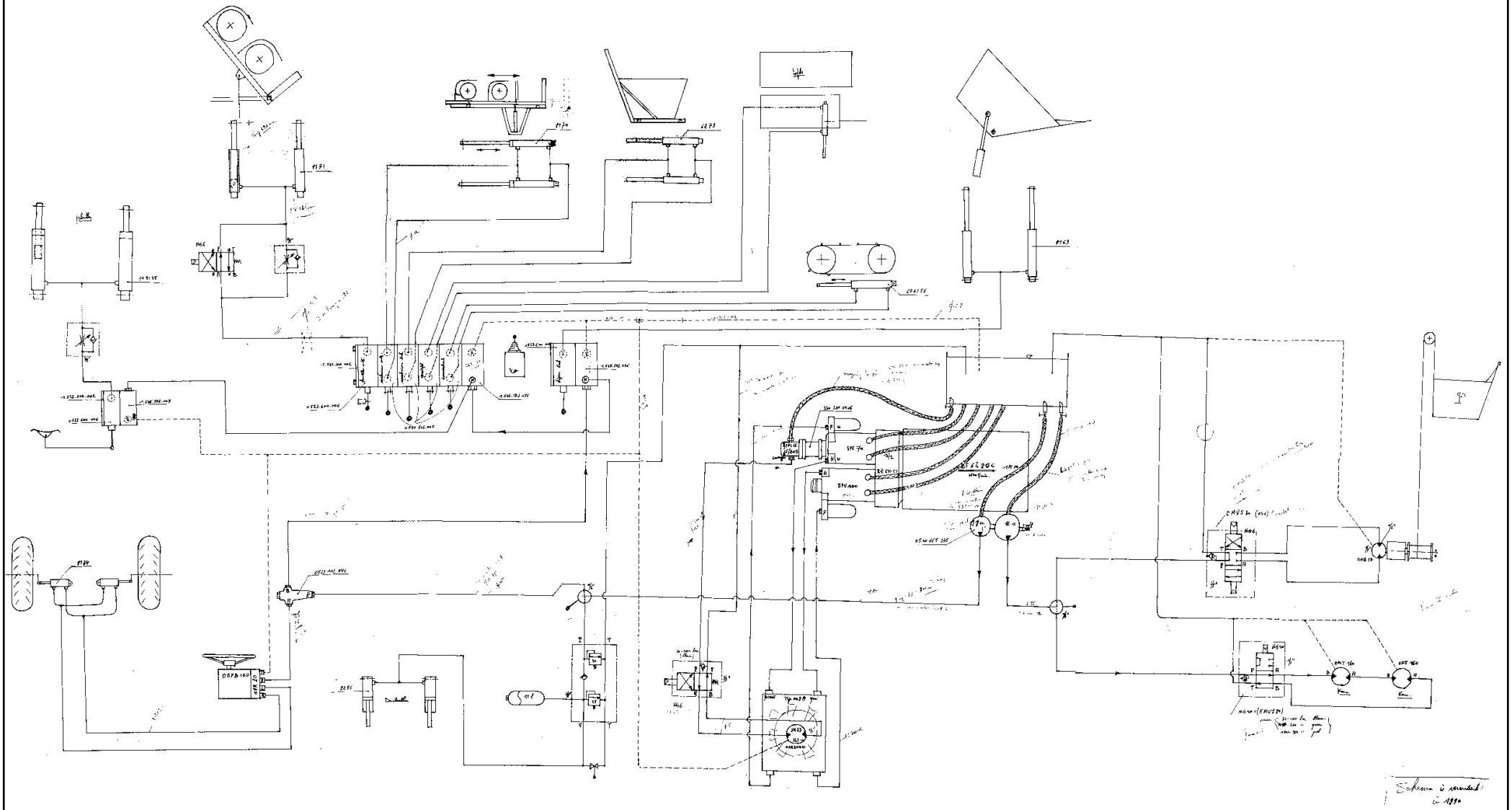
Number	Our reference	Name
1	00011748	Bolt
2	00010027	Washer
3	00019219	Bearing
4	00022139	Spacer sleeve
5	00022513	Pulley
6	00022101	Retaining ring
7	00022512	Axle
8		Tensioner
9	00022506	Wheel
10	00019219	Bearing
11	00022587	Retaining ring
12	00022504	Cylinder mount
13		Support

8. Hydraulic scheme

Check if all hydraulic couplings for tightness. Before removing a hydraulic hose, check if the oil isn't under hydraulic pressure.

Oil under pressure may cause serious injuries.

If a hydraulic hose is disconnected, the hose must be completely cleaned so the hydraulic circuit doesn't get polluted!



Picture 38

UNION FLAX MACHINES
Nijverheidstraat 134 B-8791 Beveren-leie • Tel.: 0032 (0) 56 71 24 71 • Fax: 0032 (0) 56 70 44 64
BE B.T.W.: 405 447 825 • GB 285-0436151-68 • KB 463-6106291-21 • BBL 385-0140479-86