



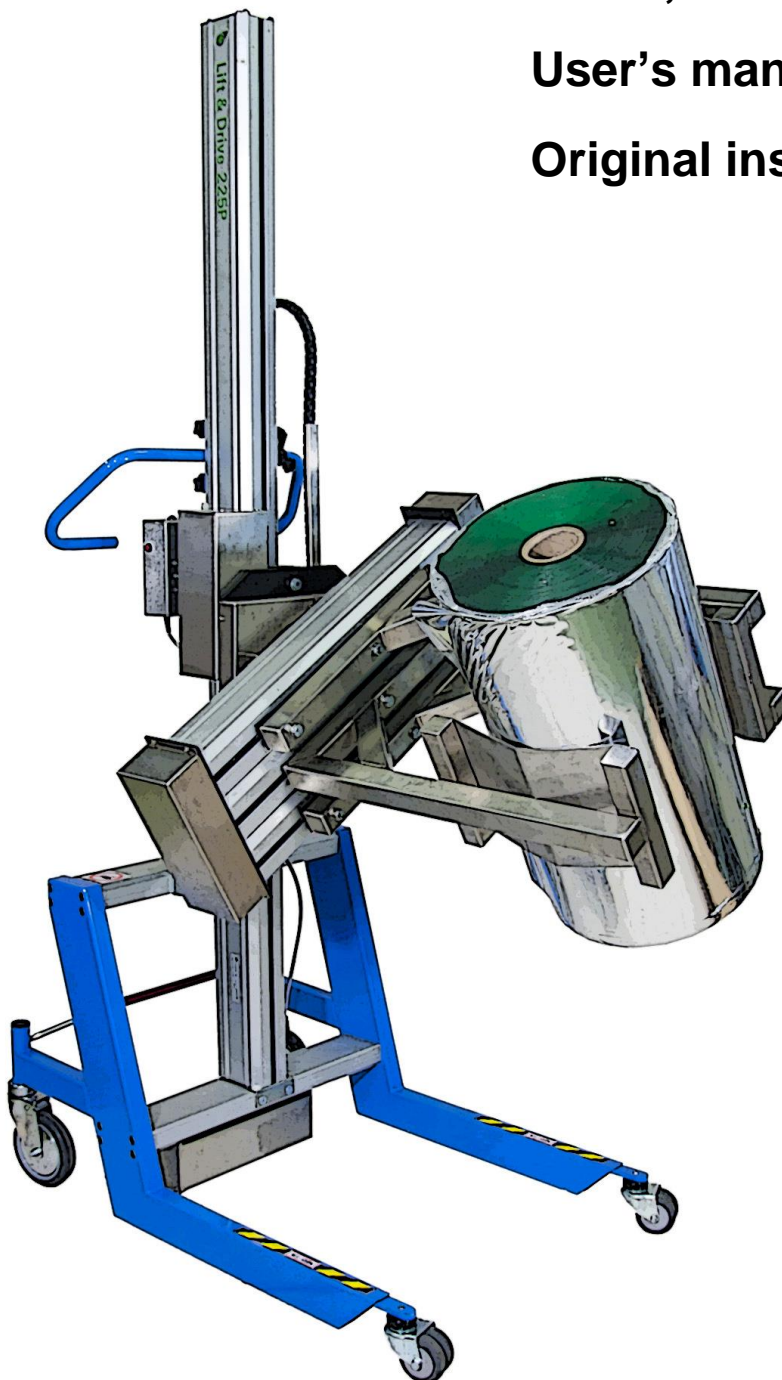
Squeeze&Turn

Model 19472

Also for: 19473, 19476,
19477, 19478

User's manual

Original instructions



It is important that you read and understand this manual before the attachment is used.
Questions? – Contact your supplier or the manufacturer.

Pronomic AB

Street address:	Postal address:
Domherrevägen 15	Box 5504
192 55 Sollentuna	192 05 Sollentuna

Phone: 08-544 706 60

Fax: 08-544 706 70

E-mail: info@pronomic.se

www.pronomic.se

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1 Description of the attachment Squeeze&Turn

Squeeze&Turn is designed to lift/grip and rotate a load. The load is gripped by one or two motor driven arms squeezing the load. All functions are controlled from the control box on the trolley. When the load is gripped it can be rotated steplessly with the joystick. The load shall always be gripped in the center.

The attachment is available in these versions:

19472	Squeeze&Turn, 60 kg, No arms	90P/130P
19473	Squeeze&Turn, 60 kg, Standard arms	90P/130P
19476	Squeeze&Turn, 110 kg, No arms	175P/225P
19477	Squeeze&Turn, 110 kg, Standard arms	175P/225P
19478	Squeeze&Turn, 110 kg, Double, No arms	175P/225P
19479	Squeeze&Turn, 110 kg, Double, Standard arms	175P/225P

Attachments with no arms can be equipped with custom arms. Double refers to two motorized squeeze arms.

The max load is determined by the model of the trolley and the dimensions of the load. See chapter 6 “Technical data” for more information regarding loads.

The attachments are only intended to be used with Pronomic AB’s Lift&Drive lift trolleys. They are only to be used indoors in well-lit environments on level floors. Additional technical documentation can be ordered from Pronomic AB.

1.1 Warranty

The warranty applies for one (1) year from the date of delivery for material- and manufacturing errors. For the warranty to apply, maintenance should be carried out according to instructions. This warranty does not cover normal maintenance, settings or regular adjustments. Neither will labour costs from such measures be covered by the warranty. Damages caused by abuse or improper use of the equipment will also void the warranty.

2 Assembly

When mounting the attachment, protective shoes should be worn, as the parts can cause injury if dropped.

2.1 Disassembly and scrapping

When scrapping the attachment and control box should be sent to a recycling center or Pronomic to guarantee recycling and safe handling of all the consisting parts of the tool.

3 Use

It is important for you to read and understand this manual before you begin using your attachment.

3.1 Rotate

The rotate function is controlled from the control box. To activate this function simply move the joystick to the left or to the right.

3.2 Grip and lift

The gripping arms should always be positioned in the center of the load (gravity center). Position the tool using the trolley maneuvering control for up/down and the joystick for rotate. Be sure the tool will grip the load in a proper way.

Press and hold the squeeze button until it stops and the load is gripped. Make sure the arms have gripped the load properly and then proceed lifting the load.

If the squeeze tool is equipped with one moving arm and one fixed arm position the fixed arm underneath the roll when loading horizontally. Use the same position when transporting the roll on the trolley.

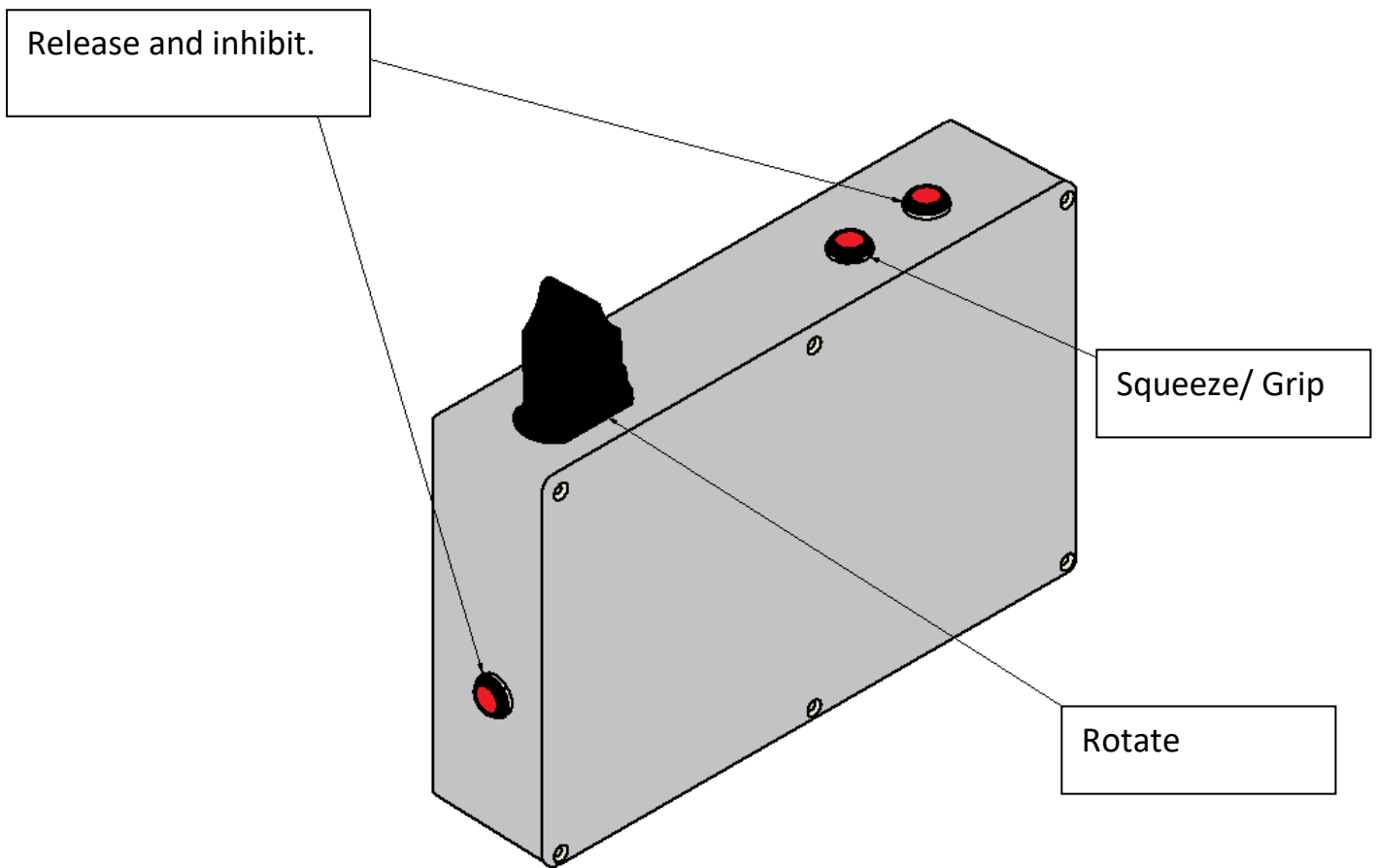
3.3 Moving the load

Before moving the load to another location rotate it so that the load is resting on the arms. This is to prevent the load from slipping out of the gripper due to vibrations. Always lower the tool and load to the lowest position possible before moving.

3.4 Release

Lower the load until it rest upon the drop-off surface. To release the load press the release button and the inhibit button at the same time. Hold until the load is properly released.

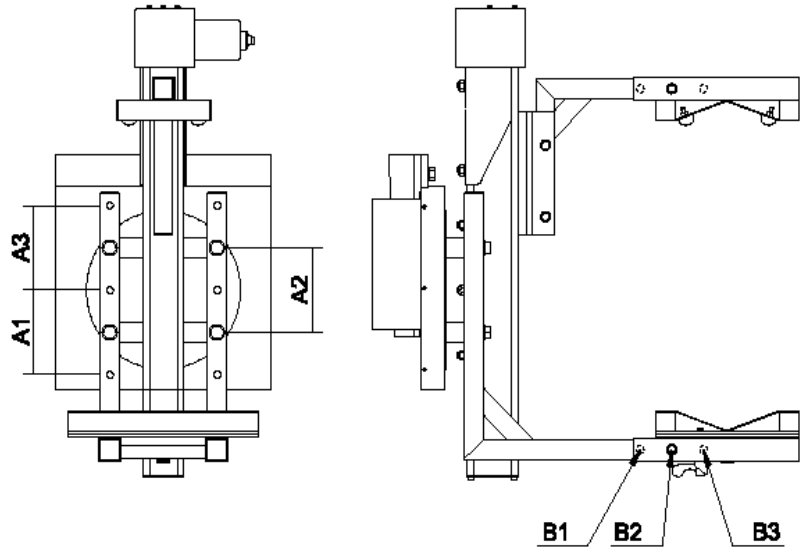
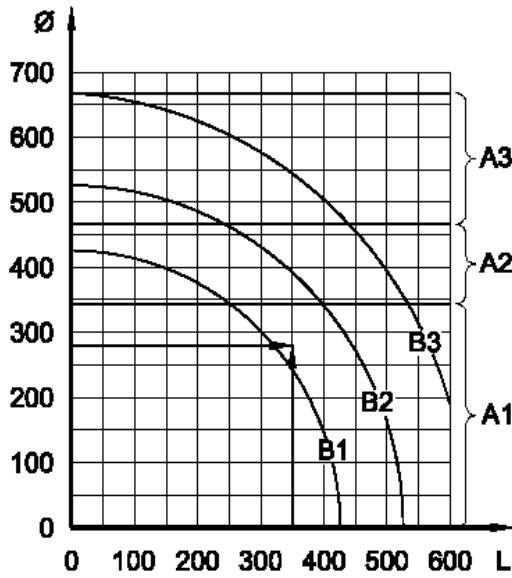
The figure below is showing the control box and the different functions.



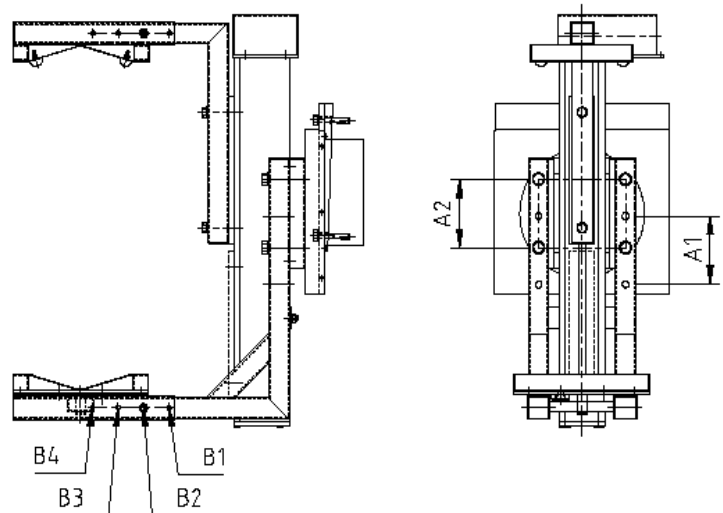
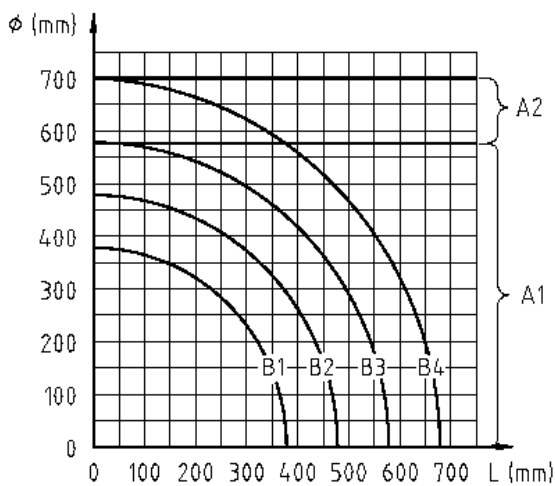
3.5 Adjustment of the squeeze arms

The squeeze arms are adjustable in both length and height to cover a larger range of roll sizes. The image below illustrates all adjustments available for the squeeze arms. 60kg Squeeze&Turn (Arms 19421) and 110kg Squeeze&Turn (arms 19423).

19421



19423



4 Safety

The operator should use the personal safety equipment (e.g. protective shoes) that handling the specific goods requires.

Stated maximum load must not be exceeded.

Be aware of the risk of crushing present between the attachment and the trolleys legs or the floor when raising or lowering the load. Avoid putting hands or other parts of your body under the load.

4.1 Storage and transport

When storing or transporting the trolley the remote control, motor cable and power cable to the control box should be disconnected.

If the attachment is attached to a trolley when transported, the trolley should be carefully tied down to minimize the tipping risk.

If the attachment is transported separately it should be carefully packed to protect the expander and control box.

4.2 Moving

The attachment should always be lowered to the lowest possible position before moving the trolley to have the safest and most stable handling possible. Be cautious when passing thresholds, cables and other objects on the floor.

When moving heavy loads the handling can be easier if the directional lock is applied on the trolley.

4.1 Loading and unloading

The operator is responsible for the correct use of the attachment.

Do not place any parts of your body under the load when lowering the load.

Only use this tool for the intended load. Other loads can be deformed when the gripper applies pressure on the surface.

5 Maintenance

5.1 Every day

T Wipe the attachment clean if it is dirty. Do not use water or pressure washers.

5.2 Every month, or as needed

Make sure the unit sounds normal when rotating and gripping.

Check that the bolts holding the attachment to the mast are correctly tightened.

Check the squeeze arms for any signs of deformation or cracks to the welds.

Check all electrical connections and replace damaged or worn parts.

If needed apply ball bearing grease to the internal parts of the squeeze mast.

Signs and decals

Check that the following signs and decals are attached and are fully legible.

Sign/decals	Description	Placement
Unit designation	Decal with serial number	One decal on the control box and one decal on the attachment
Instruction decal	Decal instructing the operator	Front of the control box
Max load	Max load of the attachment	Back of the attachment

5.3 Troubleshooting

Common faults and solutions.

Fault		Action	
1	Turn or gripping function does not start.	A	Check the batteries. Voltage should be 24V.
		B	Check the power connection between the trolley and the control box.
		C	Check the motor cable between the turn unit and the squeeze mast.
3	Rotate and/or gripper is slow	A	See 1A
4	Turn unit sounds bad when rotating	A	See chapter maintenance

Other troubles – see the manual for your Lift&Drive trolley.

Contact your dealer or Pronomic AB if the faults cannot be solved using these instructions.

6 Technical data

Model designation:	Squeeze&Turn
Rotate angle:	∞
Speed:	(see diagram page 13)
Max vridmoment	(see diagram page 13)

Standard models:	19473	19477
Minimum roll diameter	74 mm	162 mm
Maximum roll diameter	640 mm	680 mm
MAX-load	60 kg	110 kg
Weight	43 kg	55 kg

Nominal battery voltage	24 V DC
Noise level	Noise level not exceeding 70 dB(A)
Vibrations	Vibrations level not exceeding 2,5 m/s ²

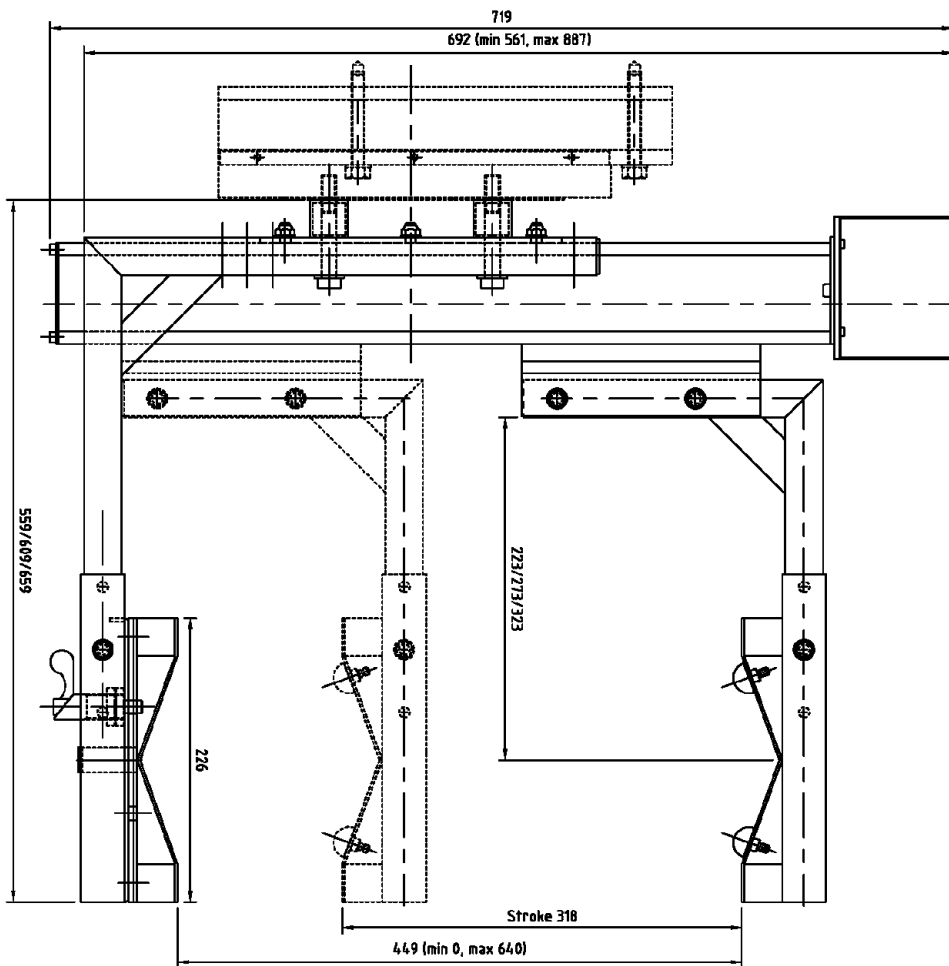
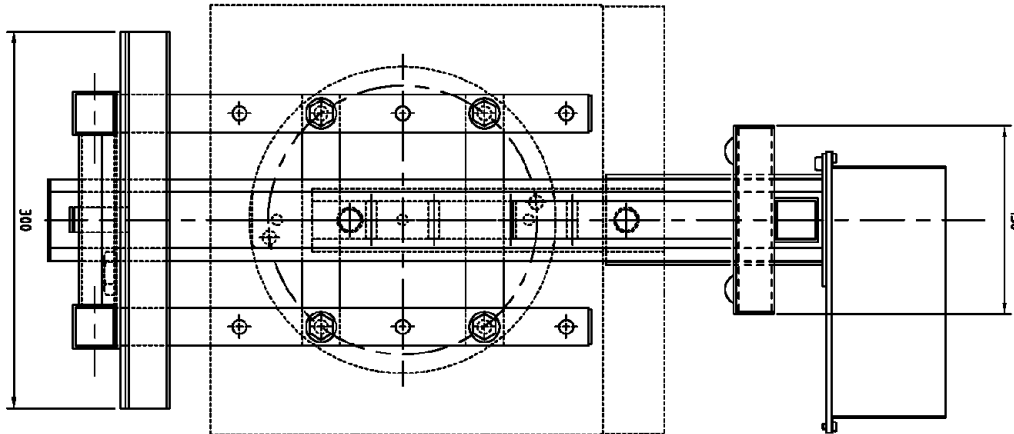
For additional technical data see the manual for your Lift&Drive trolley.

7 Approved attachments for Lift&Drive trolleys

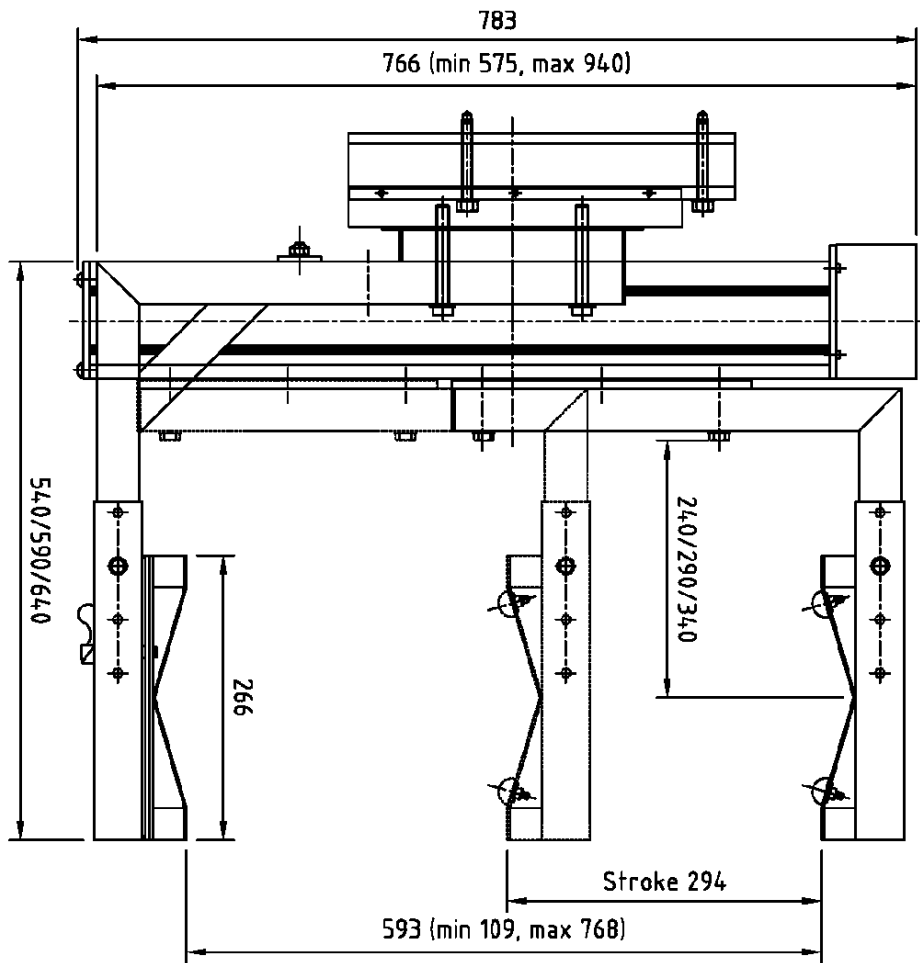
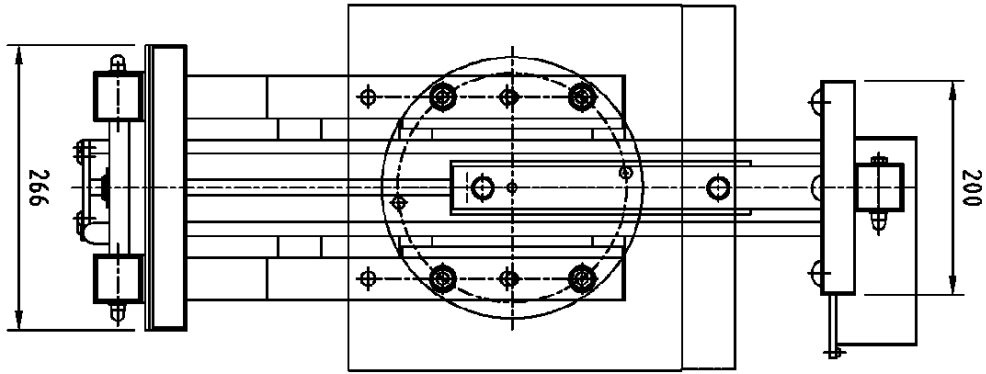
	70E	90E	90JE	90JE	90P	130P	175P	225P
15012	x	x	x	x	x	x		
15013	x	x	x	x	x	x	x	x
15014	x	x	x	x	x	x	x	x
15015	x	x	x	x	x	x	x	x
15016	x	x	x	x	x	x	x	x
15017	x	x	x	x	x	x	x	x
15018			x	x				
15019	x	x	x	x	x	x		
15024	x	x						
15080	x	x						
15322			x	x				
15324			x	x				
15338			x	x				
15339			x	x				
15370-15372			x					
16020			x	x				
16038			x	x				
16338			x	x				
17182B					x	x		
17229	x	x	x	x	x	x		
17230	x	x	x	x	x	x		
17230A	x	x	x	x	x	x		
17233	x	x	x	x	x	x		
17241	x	x	x	x	x	x		
17710	x	x	x	x	x	x		
17720	x	x	x	x	x	x		
17730	x	x	x	x	x	x		
17740	x	x	x	x	x	x		
17940			x		x	x		
17950					x	x		
17971					x	x		
17972					x	x		
17980							x	x
19174							x	x
19201							x	x
19271							x	
19285							x	x
19470					x	x		
19471					x	x		
19472					x	x		
19473					x	x		
19474					x	x	x	x
19475							x	x
19476							x	x
19477							x	x
19478							x	x
19480							x	x
19510							x	x
19980							x	x
20022			x	x	x	x		
20205A-10			x	x	x	x		
20080A	x	x	x	x	x	x		
21851-21854	x	x	x	x	x	x		

8 Drawings

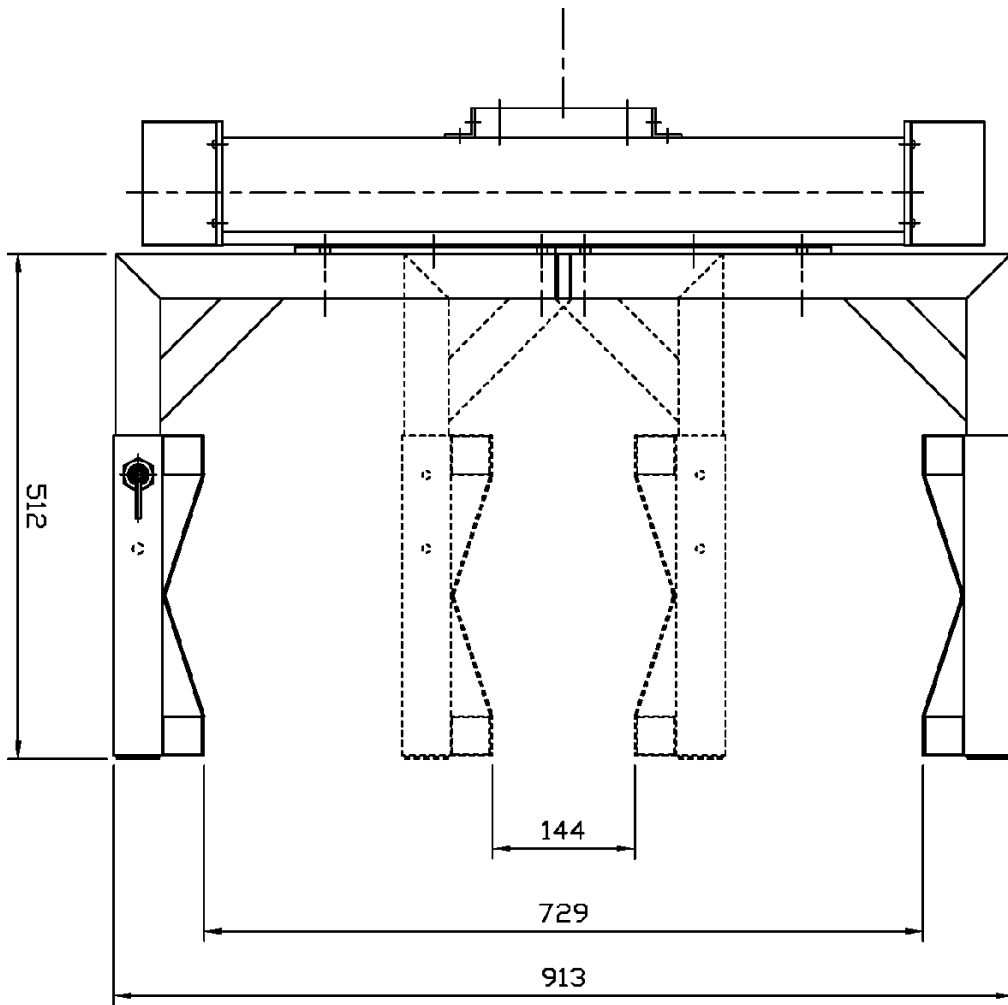
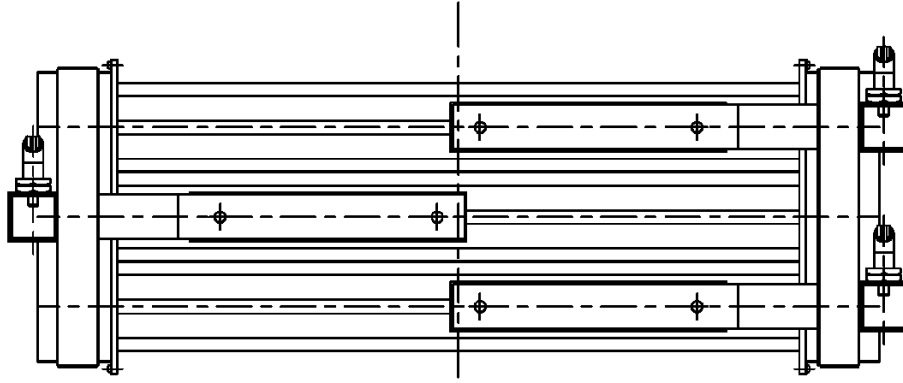
8.1 19473 Squeeze & Turn, 60 kg, standard arms



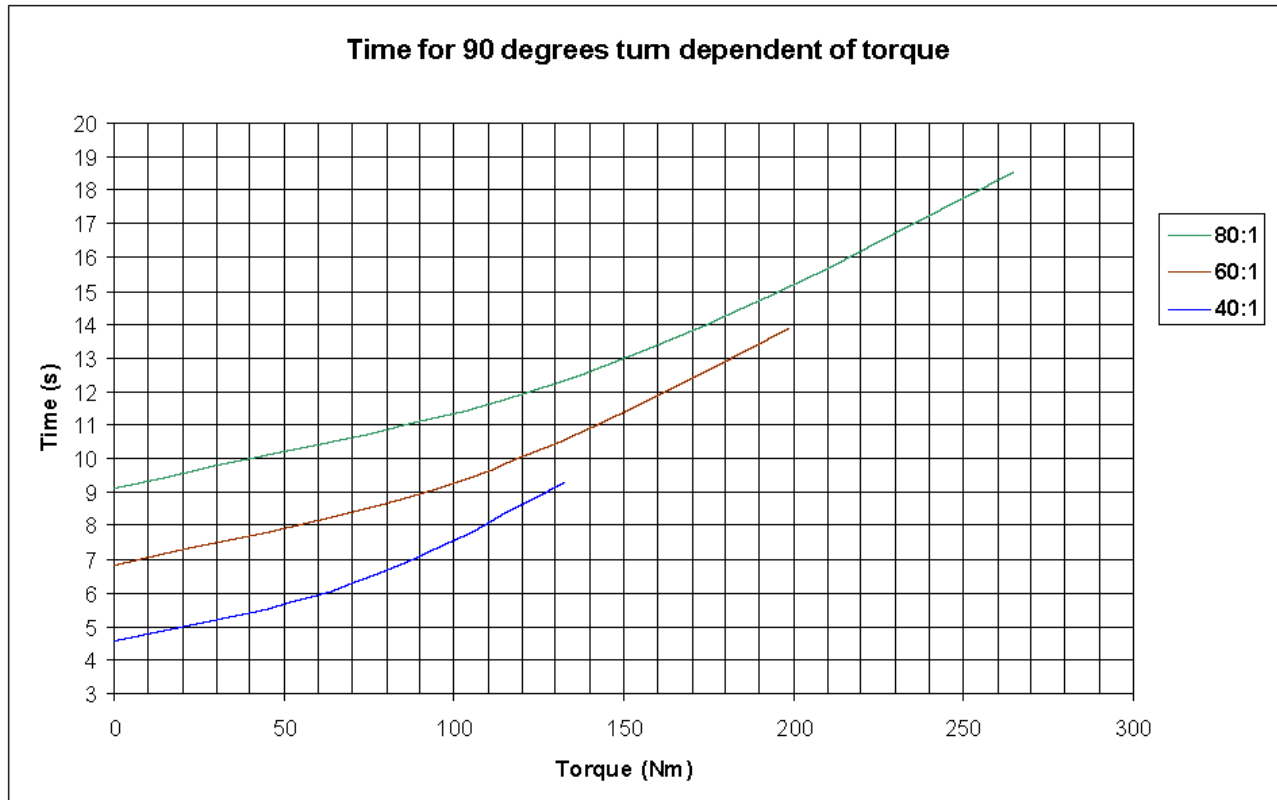
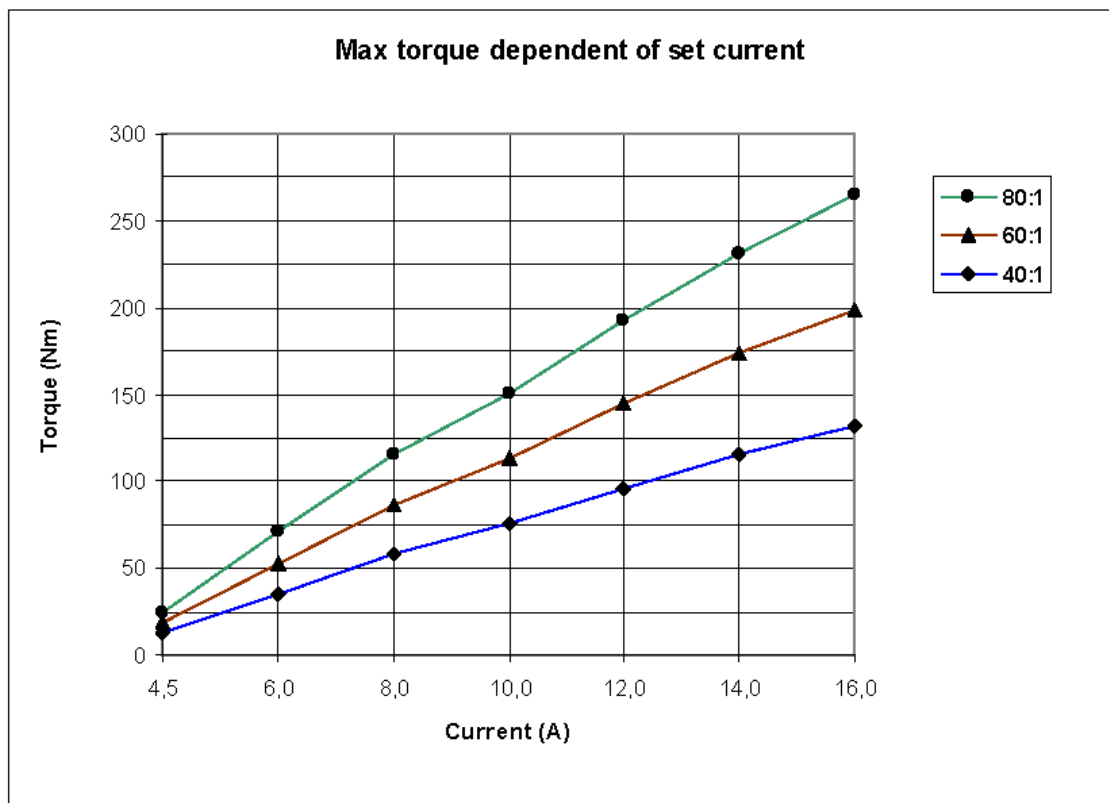
8.2 19477 Squeeze & Turn, 110 kg, standard arms



8.3 19479 Squeeze&Turn, 110 kg, double standard arms



8.4 Torque and speed



Declaration of incorporation of partly completed machine

ORIGINAL

(in accordance with 2006/42/EC, Annex II 1B)

Manufacturer	PRONOMIC AB Box 5504 192 05 Sollentuna
Model designation	<input type="checkbox"/> 19472 <input type="checkbox"/> 19473 <input type="checkbox"/> 19476 <input type="checkbox"/> 19477 <input type="checkbox"/> 19478 <input type="checkbox"/> 19479
Serial number	

Authorized to compile the technical file	Samuel Pierre, Pronomic AB, BOX 5504, 192 05 Sollentuna
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Applied EC directives:


2006/42/EC	Machinery Directive
2014/30/EU	EMC Directive

Applied standards:

SS-EN ISO 12100: 2010	Safety of machinery - General principles for design – Risk assessment and risk reduction (ISO 12100:2010)
SS-EN 349+A1: 2008	Safety of machinery - Minimum gaps to avoid crushing of parts of the human body

We hereby declare that the above-referenced machine, built and equipped with attachments included in this manual, is in conformity with the applicable conditions stated in the directives and standards.

Sollentuna, 2018-12-10


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Joakim Stannow, PRONOMIC AB

Distributed by: