



**Reliability of SPP unbraked axle** has been confirmed by numerous tests. However, it depends on proper installation and proper operation and maintenance, so please read this manual carefully and follow the instructions. Proper use and maintenance of SPP UNBRAKED AXLE has a great impact on product viability and road safety.



**The high quality of SPP UNBRAKED AXLE** has been confirmed by granted award The Highest Quality, Quality International – The Highest Quality Product. Gaining Emblem Highest Quality QI is a confirmation that Steelpress Ltd. uses the highest standards of management and the product quality is at the highest level.

## 1. BASIC TYPES OF SPP UNBRAKED AXLE AND FIELD OF APPLICATION

Standard line - recommended for trailers rarely exploited

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ON-50	Load capacity up to 500 kg	Available hubs 4 x 100; 4 x 98 Pressed rocker arm	Type of axle bracket and mounting holes spacing according to the requirement of the customer
ON-75	Load capacity up to 750 kg		
Professional line – recommended for trailers heavily exploited			
ON-75	Load capacity up to 750 kg	Available hubs 4 x 100; 4 x 98; 4 x 130; 5 x 112 Forged rocker arm	Type of axle bracket and mounting holes spacing according to the requirement of the customer
ON-100	Load capacity up to 1000 kg		

**SPP UNBRAKED AXLES** can only be used for trailers where the permissible parameters on the axle sticker are not exceeded. Installation of the axle to the trailer frame should be in accordance with the recommendations of the trailer manufacturer.

**Always adjust the speed to the prevailing driving conditions. Minimum speed 25 km / h; Maximum speed 140 km / h**

**Always obey the speed limits and other regulations in force in the country of the vehicle travel. Also, the provisions under Directive 2007/46 / EC establishing the framework for the approval of motor vehicles.**

**Installation and repair of SPP UNBRAKED AXLE should be performed by an authorized trailer service.**

**Spare parts for SPP UNBRAKED AXLE are available at Steelpress Ltd., it is not recommended to use spare parts substitutes of other companies.**

## 2. INSTALLATION

### 2.1. INSTALLATION INSTRUCTIONS FOR TRAILER AXLE

#### Mounting the axle to the trailer frame

The position and type of the axle bracket and the number of axles should comply with the recommendations of the trailer manufacturer. Be sure to keep the axle bracket properly relative to the axle frame (see fig.). Always install the axle according to the trailer manufacturer's recommendation. If there are no other guidelines, the axle should be fixed with 4 M12 bolts (class 8.8 / torque 79 Nm.) to the trailer frame. It is permissible to install the axle by welding - this installation must be performed by a certified welding service. The condition of welded joints should be checked at the frequency as for bolted elements.

#### 2.2. Position of the axle bracket relative to the trailer frame.

	SPP axles have different types and positions of brackets. Observe that the vertical lines of the bracket and frame are in one line. Mounting inconsistent with the instructions, may cause bending of the bracket or the trailer frame. <b>Connections check after first 100 km, then every 10 000 km / min once a year</b>	
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#### 2.3. Initial position of the axle relative to the mudguard.

Starting Position - a distance of 120 mm between the mudguard and the upper part of the tire must be maintained.

Rated load - a distance of 60 mm between the mudguard and the upper part of the tire should be maintained.

Overload - the distance between the mudguard and the upper part of the tire less than 60 mm

#### 2.4. INSTRUCTIONS FOR WHEEL INSTALLATION TO AXLE HUB

HUB for the SPP unbraked axles are manufactured with the following types of connections:

<b>To tighten the bolts properly use a torque wrench.</b> <b>Bolted connections check after first 100 km, then every 10 000 km / minimum once a year.</b>	Number of screws x Spacing [mm]		4 x 98	4 x 100	4 x 130	5 x 112
	Standard fastening bolt cl. 8.8		M12 x 1.5	M12 x 1.5	M14 1.5	M12 x 1.5
	Tightening torque [Nm] * Do not exceed the parameters specified by the wheel rim manufacturer		79	79	128	79

## 3. INSTRUCTIONS FOR USE

- The trailer should be loaded evenly, without exceeding the maximum allowable trailer weight and axle load capacity. Do not store goods on trailer after use.
- Keep the trailer / axle in dry and airy place, supporting the trailer frame so that the axle wheels are in the air. Some types of trailers can be stored vertically. When preparing the trailer with the axle for a longer storage, grease ( with machine grease) the connection points, threads, etc.

**Even if the weight of the goods transported does not exceed the axle load capacity, but the product is unevenly distributed, the axle still can be damaged due to overloading.**

**Always adjust the speed of the vehicle to the conditions of the road, the axle can be destroyed by hitting obstacles, uneven terrain, etc.**

## 4. MAINTENANCE

- Jeśli If the axle or its parts are damaged or deformed in an accident or due to overload, replace them immediately.
- Check regularly the axle, axle mounting to trailer, any damage should be removed as soon as they are noticed.
- Replenish regularly paint, zinc to prevent corrosion of steel.
- Keep the correct tire pressure, as recommended by the trailer manufacturer.
- Check all bolt connections according to the instructions.
- Do not make any changes to the offered product.

## 5. ADDITIONAL INFORMATION

For more information on our products, technical and commercial information, visit our website:

[www.steelpress.eu](http://www.steelpress.eu)