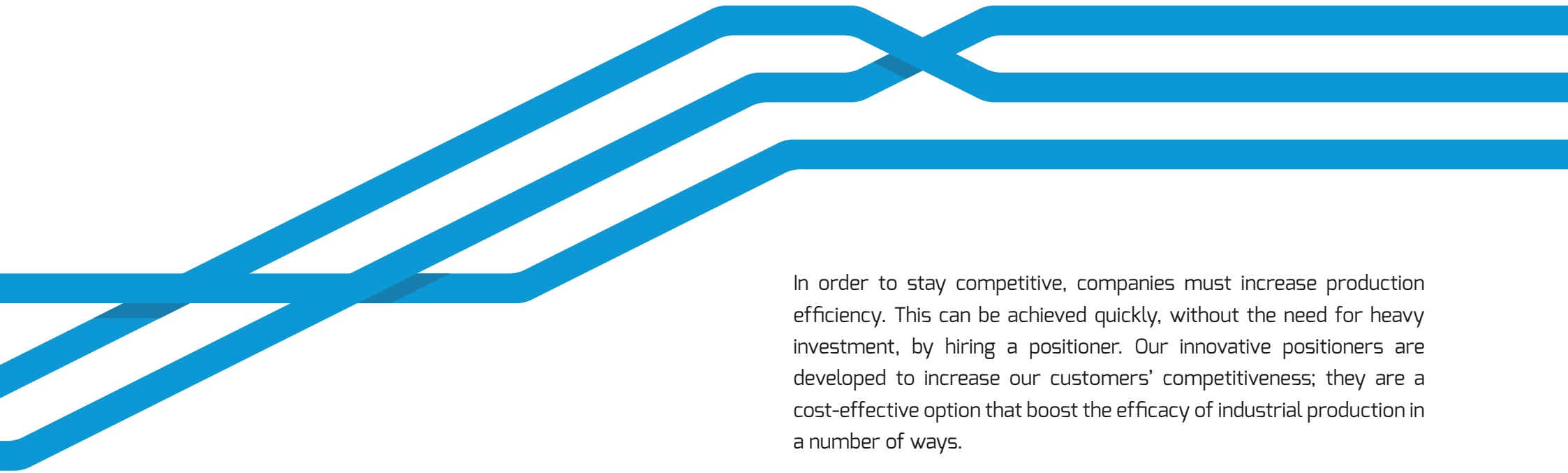


The background of the image shows a complex industrial environment with several robotic arms. One arm on the left is in the foreground, while others are visible in the background, some positioned over workstations. The scene is brightly lit, highlighting the metallic surfaces and mechanical components of the machinery.

JUCAT

**Guide to hiring:
Positioners**



In order to stay competitive, companies must increase production efficiency. This can be achieved quickly, without the need for heavy investment, by hiring a positioner. Our innovative positioners are developed to increase our customers' competitiveness; they are a cost-effective option that boost the efficacy of industrial production in a number of ways.

Companies of all sizes make use of our positioners in welding and in assembly. The positioners make production extremely efficient in five areas:

■ **Safety**

■ **Ergonomics**

■ **Quality**

■ **Productivity**

■ **Competitiveness**



By replacing a crane with a positioner, a company can increase productivity by a minimum of 30%. The effects are immediate. Hiring a positioner quickly pays itself back with dividends. Hire costs can be included in project sales without the need to raise prices.

We have made the hiring process extremely easy. All the customer needs to do is use the positioner – and let us take care of the rest. **We have four types of positioner available** for hire, suitable for handling light and medium-weight objects.

- JCL 1500
- JCL 3000
- JCP 3000
- JCP 6000





IN THIS GUIDE, WE GO THROUGH THE FOLLOWING

- What kind of companies benefit from positioners?
- 5 unbeatable benefits of a positioner
- Positioners available for hire
- Positioner hire on a turnkey basis
- Jucat's positioners represent the best in the industry

1

What kind of companies benefit from positioners?

Positioners come into their own in workshops and assembly plants. Their benefits are most clear in companies which handle objects weighing in excess of 1,000 kilograms.

The manufacturing industry and workshops have long used cranes to lift and turn objects, which is risky both for workers' health and may damage the object being handled. The object to be welded is firmly secured in the positioner, so that it can be turned as work progresses. This means that screws can be tightened or welding can be carried out optimally with regard to working position and the quality of the result. Work phases can be saved in the positioner, which means the device will automatically turn the object to the right position at each work phase. The result is more even quality - completed faster, more effectively, and safely.



› Why should I hire a positioner?

Positioners provide significant benefits for companies of all sizes. Production can be improved and made more efficient with regard to safety, ergonomics, quality, and productivity. The result is increased competitiveness. Hiring a positioner can help you achieve all of these benefits but with a lower investment threshold than purchasing.

Our hiring service allows you to obtain a positioner, even for a single project. The positioner's hire costs can be calculated into the price of the project during the quote phase. However, there is no need to raise the cost of the quote. Positioners make work phases more efficient, which leads to quicker completion of the project. In our experience, using our positioners increased work productivity in projects by at least 30%, and in some cases by much more. Our positioners can be customised to meet various needs and can easily be combined with other existing systems.



2

5 unbeatable benefits of a positioner

Several factors contribute to sustainable efficiency in the manufacturing industry. Our positioner development takes these into account. Our positioners provide significant and undeniable benefits in boosting production efficiency. The benefits can be seen immediately, and their impact is far-reaching.

1 Safety

Handling an object without it swinging reduces damage to equipment and prevents hazardous situations

The design of our positioners prioritises safety. The object is fully secured in the positioner, and both ends of the object move simultaneously in lifting and lowering. This prevents damage and dangerous situations from occurring as a result of objects swinging or slipping. Our positioners also feature speed adjustment. Lifting and lowering can be carried out slowly and gently. The speed can be increased once the object has been lifted to a safe height.



2 Ergonomics

Choose from several different heights and angles to achieve the best welding position

Positioners allow for ergonomic working positions. The flat position is the safest and most effective welding position, and with our positioners, all seams can be welded in the flat position. Unlike cranes, a positioner can partially turn an object to ensure the best angle for work. The height of the welder is also considered. The object to be welded can be easily adjusted to a suitable height for the welder. This reduces absences and keeps work enjoyable, as it does not need to be carried out in a poor position.

3 Quality

A good working position and programmable work cycle keep quality consistent throughout

Welding in the flat position and working at heights that are suitable for every individual can have a significant effect on quality. A positioner always positions the object optimally for work, and there is no need to compromise on quality. The programmable work cycle also keeps quality at a consistently high level throughout all work phases. The quality of work improves when all welding is carried out in the same order and from the same angle. Cycles are also useful in assembly. The positioner can turn the object to a suitable angle for each work phase. The result is even, as every bolt, screw or hydraulic element can be tightened with ease and always from the same angle.



4 Productivity

Work phases are completed more quickly and productivity increases by at least 30–40%

Our positioners have increased the productivity of our customers' work by 30–40%, and in some cases by significantly more. The increased productivity offered by our positioners is based on several factors. The programmable work cycle speeds up the completion of work phases and enables good and consistent quality. Work productivity increases with suitable welding heights and positions for any and every welder. Work phases are completed more quickly as the working positions are always the best possible. Unlike cranes, positioners are always ready to turn or move an object. A moveable platform is available as an accessory for our positioners, which allows for the device to be moved from one point to another using a forklift. Battery-powered mobile positioners can simply be driven to a new location.

5 Competitiveness

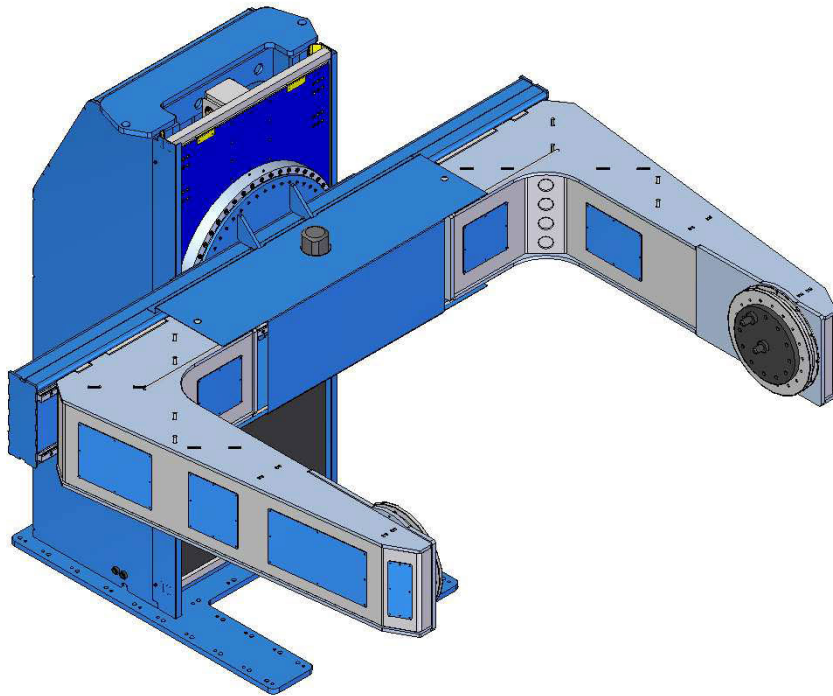
Competitiveness increases significantly as productivity rises by 30–40%

Improved productivity and quality increase competitiveness. Welding an object using a positioner rather than a crane allows for work phases to be completed more quickly and easily, and with a more consistent result, regardless of the individual welder. These significantly increase competitiveness during the quote phase. As production improves, prices can be lowered below competitors' prices without sacrificing your margin. A quicker manufacturing schedule has a positive effect on the product turnaround. The client's competitiveness also improves, as they receive their product more quickly and at a lower price.

3

Positioners available for hire

We have four different types of positioner available for hire: two double-axle JCL positioners, and two single-axle JCP positioners. The positioners are suitable for handling light and medium-weight objects. All of our positioners have competitive rotational and tilt torque. Our positioners bear the CE mark.



› Features of our positioners

Our positioners have many features that facilitate work and ensure the same high-quality result again and again. Ensuring workers' safety and keeping both the positioner and object intact are ensured through properties that adjust the movement of the object. The cylinders at both ends of our positioners are equipped with measurement rods or laser sensors that make sure that both ends of the object are moving simultaneously. Proportional valves are used for lifting and lowering. These allow for controlled acceleration and deceleration to prevent objects from swinging.

Our positioners use **frequency converters** to adjust speed. Movement also begins in a slow and steady manner when turning an object. Once movement has begun, the speed can be increased or decreased in stages. Stopping takes place just as gently as starting.

Collision thresholds can be saved in the positioner. Different degrees of rotation can be set for different heights so that the object and positioner can move freely. This means that the object will not collide with anything.

The programmable work cycle not only accelerates the completion of work phases, but also ensures the consistent quality of the result. Work phases can be saved in the programmable cycle. Several points and the desired workflow can be programmed into the cycle. Our positioner always automatically turns the object to the right angle, so you don't need to spend time finding a suitable welding angle. This also means that every worker performs the work phase at the same angle, which contributes to a more even and consistent result



› **Technical specifications of positioners available for hire**

JCL 1500

- Lifting capacity: 1500 kg
- Rotational torque: 2500 Nm
- Tilt torque: 6000 Nm
- Rotation diameter: 3000 mm
- Tilt axis height: 900–1900 mm
- Offset between tilt axis and plate: 500 mm
- Plate diameter: 500 mm
- Height: 2435 mm
- Width: 1000 mm
- Depth: 3010 mm
- Weight / unit: 1400 kg


JCL 3000

- Lifting capacity: 3000 kg
- Rotational torque: 6000 Nm
- Tilt torque: 10000 Nm
- Rotation diameter: 3000 mm
- Height of tilting axle: 1000–1800 mm
- Offset between tilt axle and plate: 500 mm
- Plate diameter: 750 mm
- Height: 2455 mm
- Width: 1100 mm
- Depth: 3150 mm
- Weight / unit: 2000 kg

JCP 3000

- Lifting capacity: 3000 kg/pair
- Rotational torque: 6000 Nm
- Tilt torque: 7500 Nm
- Lifting range: 800–2000 mm
- Plate diameter: 750 mm
- Height: 2455 mm
- Width: 1050 mm
- Depth: 1100 mm
- Weight / unit: 1000 kg

JCP 6000

- Lifting capacity: 6000 kg/pair
 - Rotational torque: 8000 Nm
 - Tilt torque: 7500 Nm
 - Lifting range: 800–2000 mm
 - Plate diameter: 750 mm
 - Height: 2455 mm
 - Width: 1100 mm
 - Depth: 1050 mm
 - Weight / unit: 1000 kg
- 

4

Positioner hire on a turnkey basis

We have made the hiring process extremely easy. All the customer needs to do is use the positioner – and let us take care of the rest.

Our specialists are happy to answer any positioner-related questions you may have and to guide you in selecting a positioner. Once you've chosen a suitable positioner, a hire agreement for it will be signed. Hire agreements are always signed for a minimum of six months.

The positioner is carefully tested on our premises. We then deliver the positioner to the customer and install it ready for use. We provide instruction on how to use the positioner. This does not take long as the positioner is very easy to use. Typically, the positioner is in full use on the day following the installation.

Positioners are affordable to use. We take care of their maintenance and functionality. If the hire agreement is valid for less than one year, the positioner will not require basic maintenance during the contractual period. Hire agreements lasting more than one year will include positioner maintenance, which we will carry out on site on your premises. Our hire equipment comes with a warranty including free on-site repair of any defects covered.

Once the hire agreement ends, **the customer may redeem the positioner for itself.** If the customer no longer wants the positioner, we will collect it. Our engineers will arrive at an agreed time to disassemble, detach, and remove the positioner.



5

Jucat's positioners represent the best in the industry

Established in 2001, Jucat Oy is a company from South Ostrobothnia offering innovative services for boosting production efficiency and development for companies in the manufacturing industry.

Our positioners are extremely high-quality technology not manufactured elsewhere. Our experience and professional skills mean that we are able to fully utilise all technological benefits to boost our customers' production. Thanks to our advanced and efficient planning and production processes, we take full responsibility for our solutions and give them productivity guarantees.

We act as a development partner for our customers. Our aim is to produce added value in the form of improved competitiveness, productivity, quality, ergonomics, and safety. For years, our positioners have supported our customers' competitiveness. Jucat Oy's positioners are trusted by companies such as Wärtsilä, Outotec Turula, and many more





JUCAT

JUCAT OY

Puurtajankuja 3, 60100 Seinäjoki
FINLAND

Office: 010 326 3300

Project sales: 010 326 3305

info@jucat.fi | www.jucat.fi