

# Technical Service for Extrusion Presses

Enhancing productivity, quality, and plant safety





# Customized service

## Competent. Quick. Flexible.

### Mastering challenges

The Technical Service within SMS group is far more than the total of all global services. Everyday, our employees realize market-oriented solutions for many highly specific plants. This challenge can only be mastered today with a well-functioning global network.

What's more: Technical service must nowadays be an integral part of new developments. Therefore, SMS group specialists from development, engineering, repair and workshop areas are working closely together with the service experts. Here, customers' requirements are in the focus.



# Holistic approach

## Sustainable solutions

### Individual and holistic maintenance

The maintenance department should always opt for sustainable measures for safeguarding product quality, productivity and production reliability. To achieve this, we offer you various services. Based on the current status of your extrusion press, you can put together a tailor-made service package so that your plant produces reliably.

The service experts inspect your equipment from different perspectives. And since no rigid maintenance agreements are concluded you will have maximum flexibility enabling you to react to changing circumstances at any time.



*Each individual service is marked with a symbol so that the relevant focus becomes immediately evident.*



# Non-destructive Testing (NDT)

## Avoiding failures

Cracks may occur due to enormous loads on heavyweight high-strength components of the extrusion press.

Crack indications often remain unnoticed until the components concerned fail. The results are long downtimes and high repair costs. After repair, fatigue strength no longer exists.

SMS group offers you non-destructive testing with different testing methods. As we already know the highly stressed areas on different components, together with you we plan, detailed preparation work. On the basis of this work, we apply the test deriving direct recommendations for action in the case of a crack indication.

You will receive a detailed report on the result of the crack test.



### Your benefits

- You are provided with detailed information on the status of your press enabling you to plan necessary repair measures well in advance.
- You minimize your repair efforts.
- You prevent unscheduled production downtimes.





# Service packages at a glance

Machine downtime necessary



### **Nod-destructive testing (NDT)**

To ensure that a plant failure is prevented, NDT at regular intervals are indispensable. The Technical Service of SMS group knows the highly stressed component areas. In case of damage we derive direct recommendations for action.

**Objective: Preventing unscheduled production downtimes, achieving more production reliability.**

$t \Rightarrow$

No machine downtime necessary



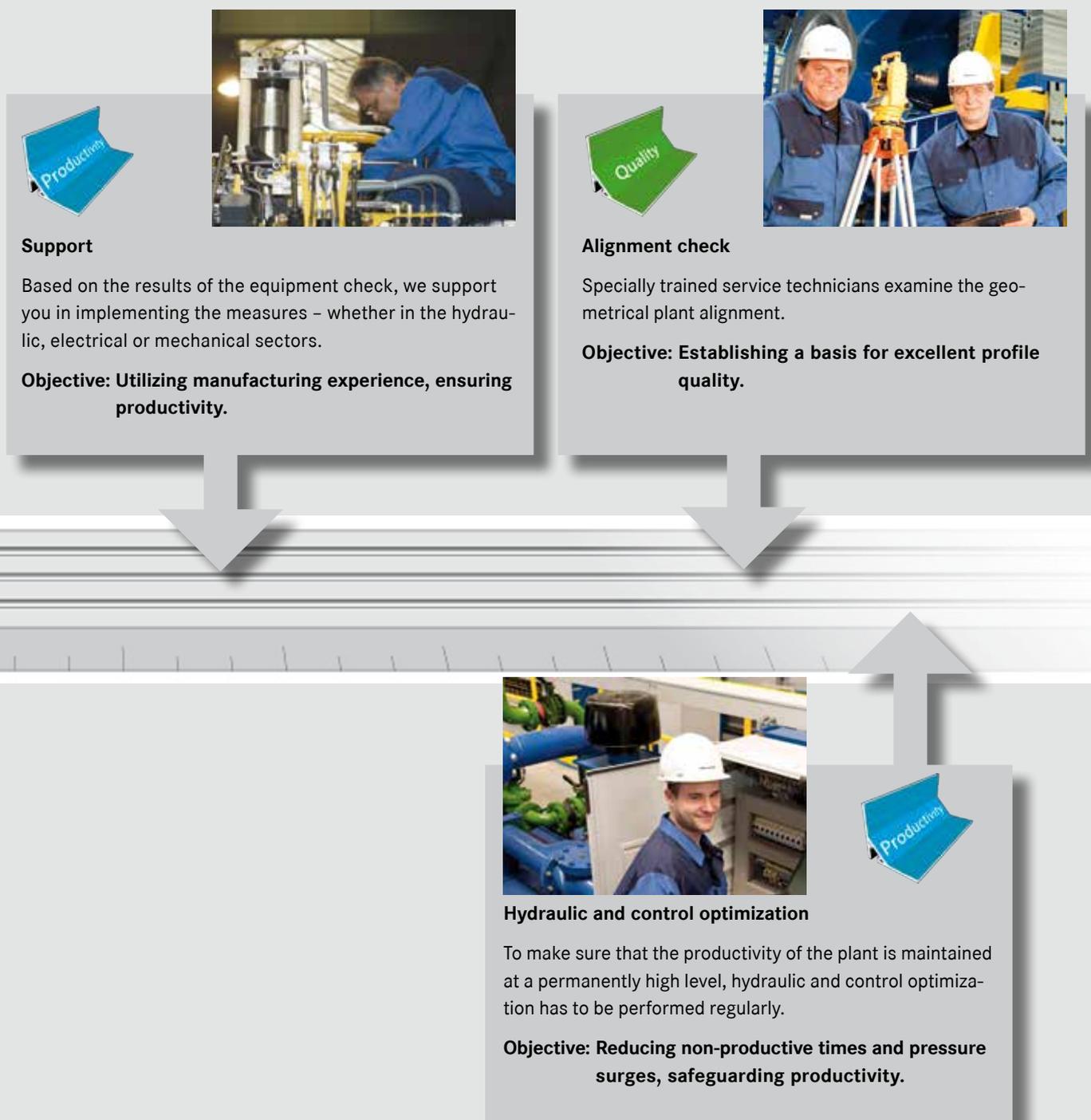
### **Equipment Check**

Service technicians record the status of the plant and directly coordinate the results with you on site. You will then receive a report with recommendations for maintenance, repair and modernization measures.

**Objective: Recognizing and planning necessary measures in good time.**

Based on each current status, the respective services for the individual extrusion presses can be determined.

Taking into account the necessity of a machine downtime, services provided can be freely combined as regards chronological order, frequency, and timeframe. Considering the priorities - quality, productivity and production reliability, a customized service package can be put together for each extrusion press during the year.





# Maintenance support

## Utilizing manufacturing experience

To ensure that the productivity of your plant is not endangered, it is recommended that the maintenance measures described in this brochure be implemented on the extrusion press. Together with you, we plan the implementation of the hydraulic, mechanical and control maintenance measures.

We also support you in performing long-planned maintenance work or in carrying out necessary measures spontaneously, taking advantage of our manufacturing experience. In this way, you will be able to improve the status of your equipment and at the same time to train your servicing staff through cooperating with our service technicians. This will enable you to conclude the maintenance measures effectively and quickly.



### Your benefits

- Assistance in planning and prioritization of maintenance work.
- Support with the professional execution of the maintenance work.
- Minimizing the risk of plant failures.



# Alignment check

## Correct geometry for increased quality

It is necessary to check the basic geometry of the plant at regular intervals. This also includes alignment checks on single components providing the foundation for your company to ensure consistent profile quality. Only on the basis of a geometrical examination of the entire plant, your maintenance will be able to align single components effectively.

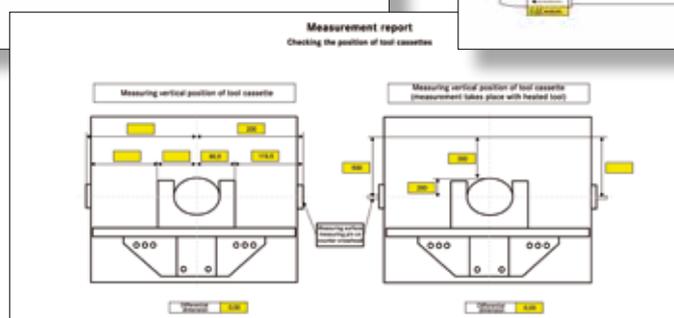
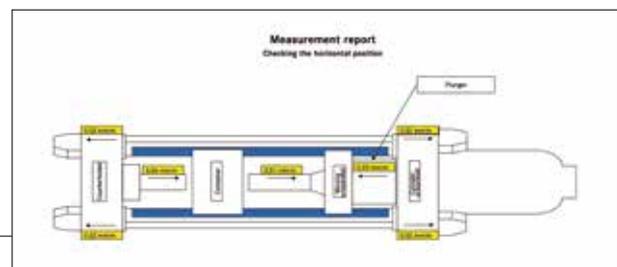
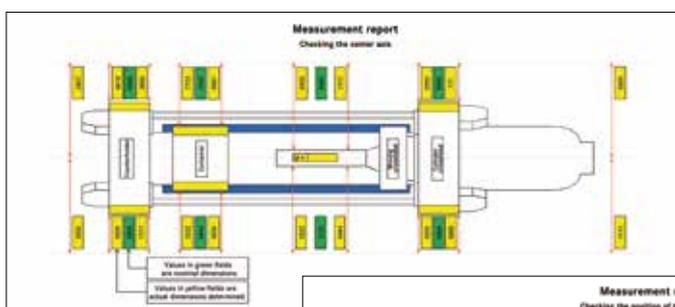
Our specialists carry out the geometrical examination of the lateral and vertical alignment of the plant.

In this case, all heavyweight components are considered in their function and position in relation to each other. The measuring tool required for alignment checks is made available by SMS group.



### Your benefits

- **Quality:** An aligned extrusion press is the basis for fine profile quality.
- **Availability:** On a geometrically examined plant the components are less worn.
- **Plant history:** Set up a plant history by performing alignment checks regularly and recognize changes at an early stage.



Measurement reports of alignment check.



# Optimization of control systems

## Reducing non-productive times

Extrusion presses must withstand high mechanical loads – and reach highest productivity and product quality at the same time.

With hydraulic and electrical extrusion press optimization by SMS group you are able to reach the full potential of your plant since the non-productive times are reduced.

At the same time, wear is reduced by eliminating the pressure peaks. The result: Higher output rate and permanently high productivity.

### Your benefits

- **Reduced non-productive times:** Increased output volume.
- **Eliminated pressure peaks:** Reduced wear and minimized risk of plant outages.

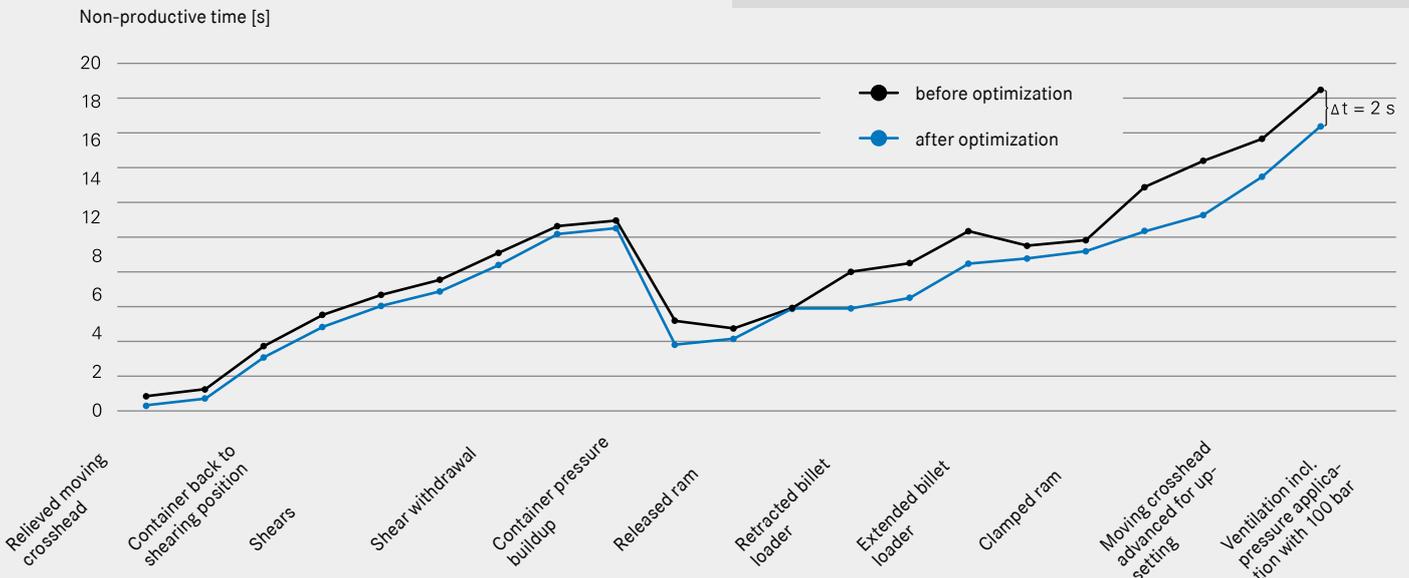
### Shorter non-productive times

#### Higher productivity

When the non-productive time of the 25-MN extrusion press is reduced to 2 seconds in three-shift operation, production increase of billet charge weight is 19,000 kg per month.

Press: 25-MN aluminum extrusion press  
 Operation: 3-shift operation, 8 hours per shift, 5 days per week  
 Billet weight: 105.64 kg

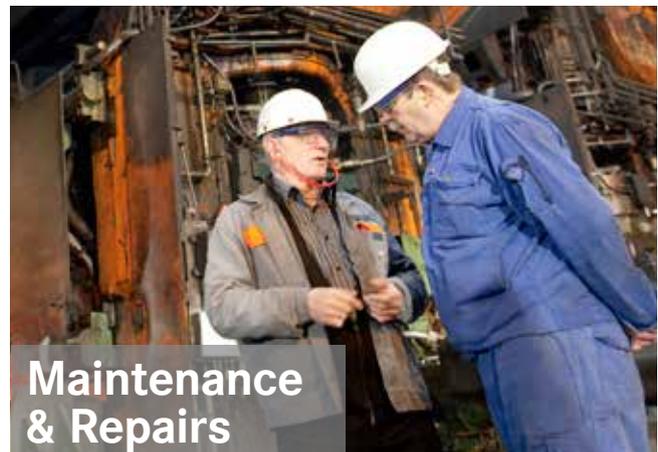
	Non-productive time B	Billet charge weight
Before optimization	18.5 sec.	1,291,000 kg/month
After optimization	16.5 sec.	1,310,000 kg/month
Increase in productivity		19,000 kg/month



# The product portfolio

## Always the appropriate service

Whether spare parts, maintenance procedures, upgrades & modernization, or individual training approaches – the Technical Service of SMS group offers customized concepts worldwide.



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