

# CustomerNews

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## Subjects

1. New high-performance laser source ByLaser 6000
2. Machine Tools Show 2006, Malaysia
3. Intermach 2006, Thailand

### 1. Cutting performance x cost efficiency = ByLaser 6000

- Maximal cutting performance and minimized costs for even more economic production of parts
- Top cutting quality and process reliability
- Distinct increase in competitiveness

Our solution to these challenges: the new ByLaser 6000 laser with 6 kilowatts constant output power and zero-wear, space-saving semiconductor excitation.



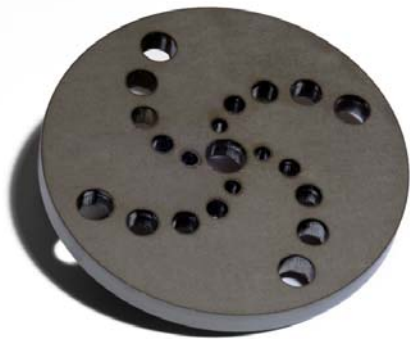
## **Advantages of ByLaser 6000**

- Extremely short part processing times thanks to increased performance and leading-edge cutting technologies
- Minimized operating costs of the overall system
- Maximized process reliability with all materials and applications
- Constant cutting quality at up to 30% increased cutting speeds
- The wearless semiconductor excitation modules developed by Bystronic set new standards in HF technology
- Low-wear operation of laser and machine
- Compact, space-saving design of the laser with no additional control cabinets

## **Cutting performance of ByLaser 6000**

- Thanks to the significant increase in cutting performance, production volume (number of parts) is increased by up to 50%
- This results in an increase in turnover and profit for all sheet thicknesses by up to 25%
- The significant increase in cutting performance in thick sheet kicks in as of 6mm steel and 4mm stainless steel

## A practical example



Control valve Ø 70mm, steel 6mm:

Part processing time with Bylaser 4400: 25s

Part processing time with ByLaser 6000: 20s

Time gain per part: 20%

ByLaser 6000 significantly pushes the envelope of maximal sheet thickness that can be processed. For the operator, this means that the system can be used for jobs that were previously outside the permissible range:

Material / cutting gas	Maximal sheet thickness
Steel / O2	25 mm
Steel / N2	12 mm
Stainless steel quality cut / N2	15 mm
Stainless steel plasma cut / N2	25 mm
Aluminum / N2	15 mm

## Applications

Ideally, ByLaser 6000 is used to cut thick metal sheet. The following diagram illustrates the requirements of two customers processing a mix of different parts:



## 2. Machine Tool Show 2006, Malaysia

Participating in MTS 2006 was rewarding as all 3 displayed machines were sold. Our machines left strong positive impressions on trade visitors and a



local minister, which the local gives prominence. The impressive setup of our booth drew many interested parties and we were fortunate to be able to spend some quality time with them.

We certainly look forward to another fruitful exhibition.



## 3. INTERMACH' 06 in Bangkok, Thailand

A big impact was created to the visitors where we displayed the Byspeed 3015 with 5.2kw resonator. As the first Byspeed machine to be introduced to the Thai market,



we displayed the Byspeed 3015 with 5.2kw resonator. As the first Byspeed machine to be introduced to the Thai market, drew strong positive interests from customers and visitors alike. Interests in this range continue to come in from many interested companies from Thailand and beyond.



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Bystronic is a worldwide active supplier of high-quality solutions for the economical processing of sheet metal, other sheet materials and tubes. Customers profit from application-oriented systems and services for laser and waterjet cutting as well as bending. Bystronic stands for reliability, powerful innovation, an outstanding price-performance ratio and user-friendly operation. The focus lies on the automation of the complete materials and data flow of the cutting-bending process chain. As a partner, Bystronic offers security, continuity and transparency, and is regionally present through competent employees who speak the customers' language.