

# **Power-Tech Re-Sale MICIK**

Owner: Laslo MICIK

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D-47863-Willich, Germany

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Willich, 28<sup>th</sup> July 2008

## **Offer about second hand power plant**

consisting of

**high presseure Steam Boiler  
22 t/h, 70 bar , 505 °C**

and

**Steam Turbine with generator  
2,2 MWel.**

Our offer no.: 895/LM-2008

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## 1. Offer about complete second hand 22 t/h STEAM BOILER

### 1.1 Technical data:

Make:	Blohm+Voss, Germany
Year of production:	1994
Boiler load:	22 t/h
Superheated steam pressure:	70 bar
Superheated steam temperature:	505 °C
Working principle:	natural circulation
Dimensions:	please refer to the attached boiler drawing
Boiler can be fired by:	<ul style="list-style-type: none"><li>- natural gas</li><li>- light oil</li><li>- heavy oil (diesel)</li></ul>

### 1.2 Scope of supply

The complete Steam Boiler unit consists of:

- a) High pressure Steam Boiler body, made to work with oil and natural gas firing system. The boiler is made of membrane walls and is working by natural circulation system.
- b) Combined oil/natural gas burner system including 1 burner with pipings, valves, control panel. Make: Mehlday und Steinfath, Germany
- c) Complete boiler feed water treatment system
- d) Boiler internal pipings, valves, pumps
- e) Boiler soot blowing system
- f) Complete electrical and control panels
- g) Documentation and operational manuals
- h) Complete dismantling of the parts / equipment / machines
- i) Packing of small parts / equipment in containers
- j) Loading on tracks (which will be provided by the buyer) on site in south Germany

- k) Option:  
Electrostatic precipitator (or so called: electro-filter)  
(dust removing plant to clean the boiler's flue gases)

Make: Rothemühle, Germany

The burner is able to burn also heavy oil which contains after burning ash in the flue gas. The a.m. equipment has been used to clean the flue gas before chimney.  
This option is not included in the below mentioned price.

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## 1.3. Price and payment conditions

The price for the a.m. deliveries and services is: **EUR 340.000,--**

This price is to be understood as FOT (loaded on track) on site South Germany under the condition "As it is, Where it is" for the whole equipment.


Payment conditions:

- = 30 % down payment after signing of the contract
- = 70 % against goods and export documents

Location of the unit:	South Germany
Equipment available:	As of now
General condition:	very good

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Laslo MICIK



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## 2. Offer about second-hand 2,2 MWel. STEAM TURBINE unit

The complete unit consists of steam turbine, gear box and alternator which are located on a common frame made of steel structure. Our offered scope includes furthermore the complete control and electrical panels and the complete dismantling of all listed parts and equipment. For more details please refer to the descriptions shown next below.

### 2.1 Technical data:

#### Turbine

Make:	Blohm + Voss, Germany	
Working principle:	Back pressure with steam extractions	
Year of production:	1994	
Load:	2.580	kW
Dimensions:	please refer to the attached drawing	
Live steam pressure:	60	bar a.
Live steam temperature:	480	°C
Steam consumption:	22	t/h
Steam extraction	6-8	bar a.
Back-pressure:	3 to 4,5	bar a.

#### Gearbox

Manufacture:	BHS Voith	
Type:	AD 56 T	
Design load:	3.210	kW
Rotation, inlet side:	14.000	rpm
outlet side:	1.500	rpm

#### Generator

Manufacture:	AVK	
Type:	DIDBN 140/135 K4	
Apparent power (max.):	2.843	kW
Active power:	2.200	kW
Voltage:	6,3	kV
Frequency:	50	Hz
Rotation:	1.500	prn

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## 2.2 Scope of deliveries

Our scope of deliveries includes the next below listed parts and services:

- a) Steam turbine
- b) Gearbox
- c) Alternator with exciter
- d) Oil cooling and lubrication system
- e) Control and electrical panels, high voltage panels and switches
- f) Documentation and operational manuals
- g) Complete dismantling of the machines and equipment
- h) Loading on tracks (on site in South Germany)

## 2.3. Price and payment conditions

The price for the a.m. deliveries and services is: **EUR 185.000,--**

This price is to be understood as FOT, side South Germany under the condition "As it is, Where it is" for the whole equipment.

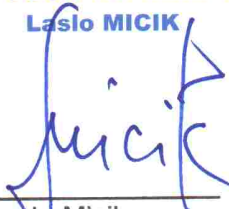
Payment conditions:

- = 30 % down payment after signing of the contract
- = 70 % against goods and export documents

Location of the unit:	South Germany
Machines available:	As of now
General condition:	very good

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