



TÜRKİYE GENEL DİSTRİBÜTÖR  
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SHEL Heavy Duty Cutting Nozzle\*



\* This product is patent applied



## Advantages at a glance



Click on a subject to find out further details.

- Faster cutting process
- Economic operation
- Long operating life
- Small cutting kerf
- Suitable for wide range of pressures
- Wide range of applications
- Safe operation
- Reduced noise level
- Extensively tested



## Faster cutting process

In a temperature range from 600 to 900°C the SHEL nozzle cuts **20% faster** than conventional nozzles

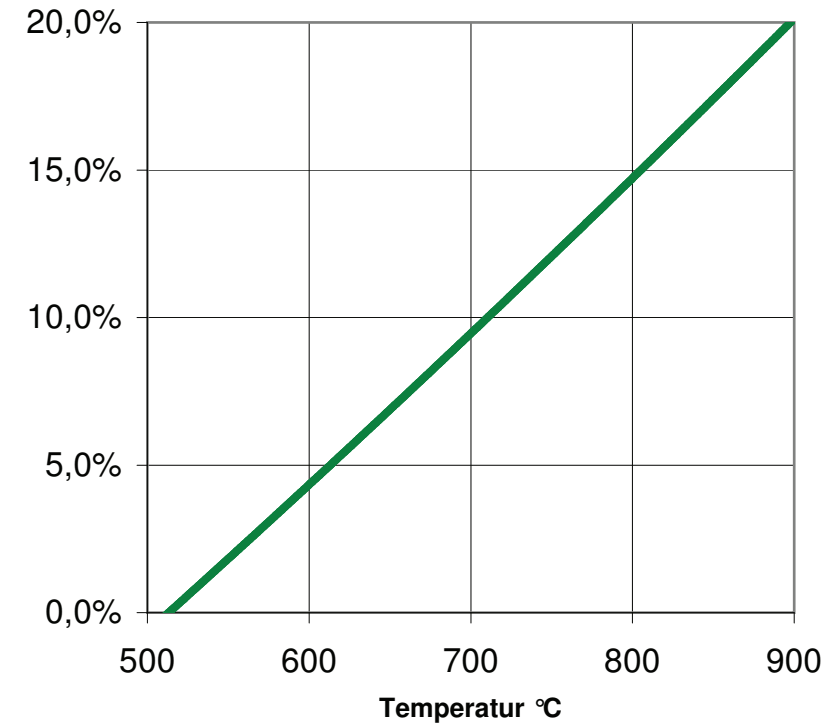
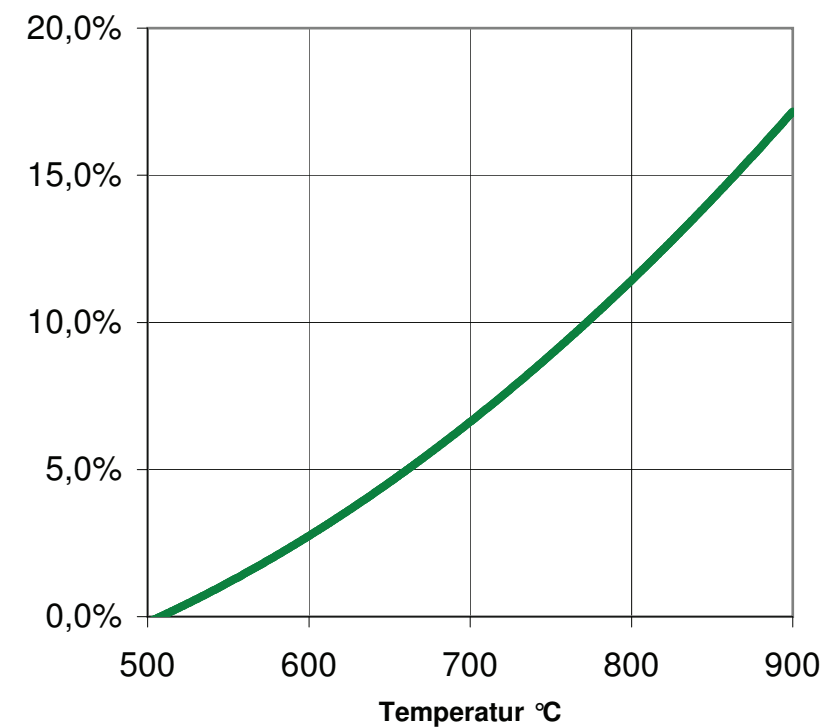
Increase of cutting speed in percent  
(in comparison with conventional nozzles)

Scheitelhöhe 200 mm, Dicke 200 mm

250 mm Dicke

Example 1: 200 mm slab thickness

Example 2: 250 mm slab thickness



**Basis for measured data:**  
 Oxygen pressure at torch entrance 12 bar  
 Oxygen purity at least 99,5%  
 Unalloyed steel  
 C-equivalent max 0,3%  
 Natural gas

→ **Cutting speed**

- Media consumption
- Operating life
- Width of cutting kerf
- Cutting standard
- Application
- Operational safety
- Occupational safety
- Quality testing

← Advantages at a glance





## Economic operation

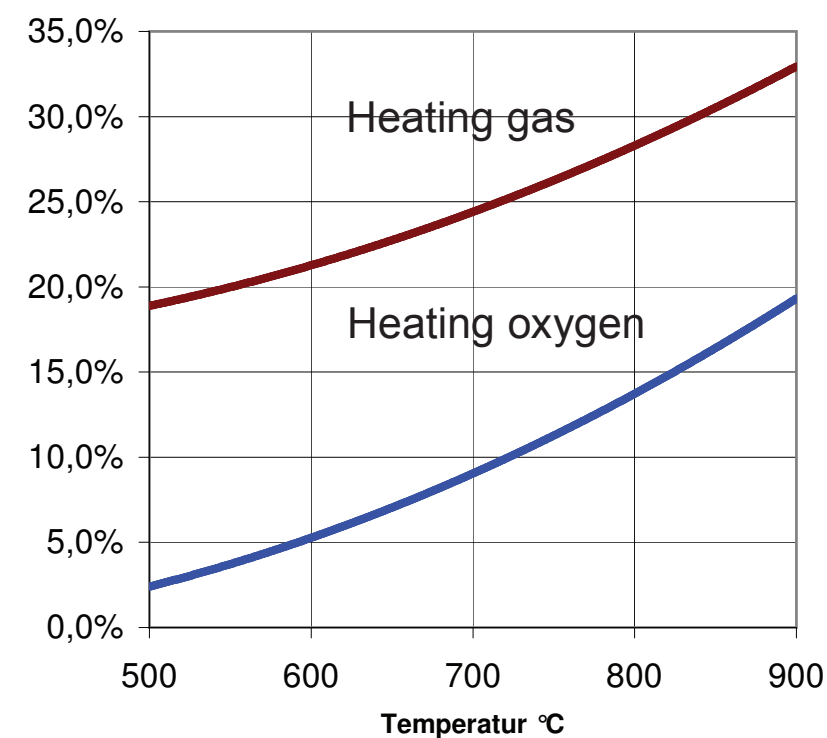
The SHEL nozzle is economical due to comprehensive technical optimization



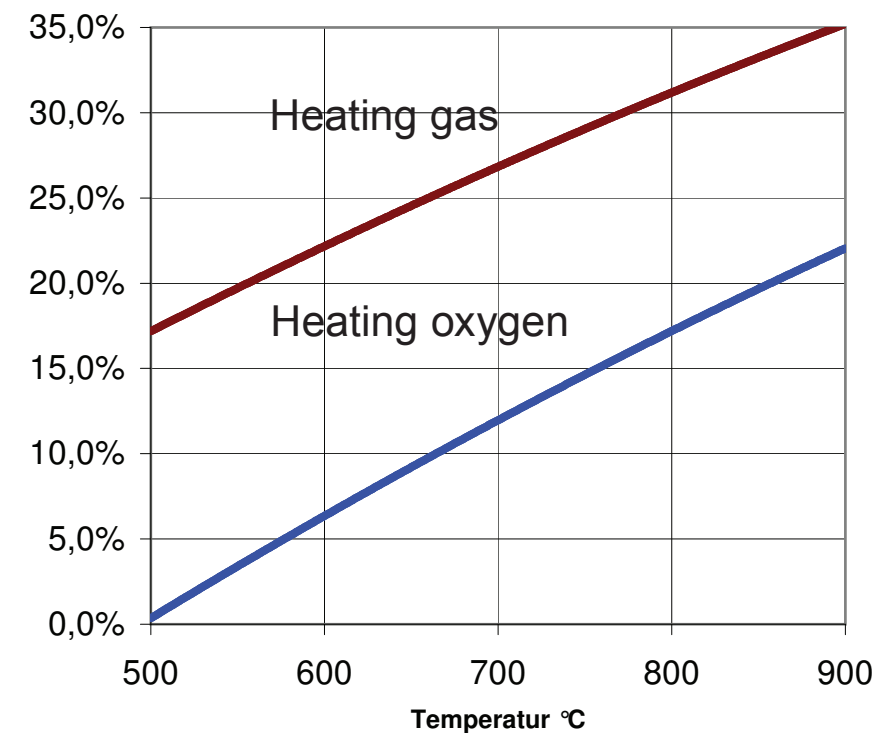
Heating gas consumption is **35% lower** and oxygen consumption is **22% lower** than consumption of conventional nozzles

### Saving percentage in media consumption (in comparison with conventional nozzles)

Example 1: 200 mm slab thickness



Example 2: 250 mm slab thickness



**Basis for measured data:**  
 Oxygen pressure at torch entrance 12 bar  
 Oxygen purity at least 99,5%  
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 C-equivalent max 0,3%  
 Natural gas

- Cutting speed
- **Media consumption**
- Operating life
- Width of cutting kerf
- Cutting standard
- Application
- Operational safety
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- Quality testing

← Advantages at a glance





## Long operating life

Optimized protection of gas and oxygen outlet due to **specifically designed geometry** of the nozzle head

The design **supports the cooling** of the nozzle

The proven water-cooling of the GeGa-torches **additionally reduces heat**

Cutting speed  
Media consumption  
→ **Operating life**  
Width of cutting kerf  
Cutting standard  
Application  
Operational safety  
Occupational safety  
Quality testing

← Advantages at a glance



## Small cutting kerf

Small cutting kerfs of 6,5 mm on average generate **very low material loss**



That means **increased efficiency**

- Cutting speed
- Media consumption
- Operating life
- **Width of cutting kerf**
- Cutting standard
- Application
- Operational safety
- Occupational safety
- Quality testing

← Advantages at a glance

## Suitable for wide range of pressures

The nozzle series SHEL is designed for all common pressure ranges



With operating pressures ranging from 8 to 12 bar, optimum cutting quality can be achieved



- Cutting speed
- Media consumption
- Operating life
- Width of cutting kerf
- **Cutting standard**
- Application
- Operational safety
- Occupational safety
- Quality testing

← Advantages at a glance



## Wide range of applications

The SHEL nozzle covers a **wide range of applications**



Cutting of **slabs, billets, blooms and beam blanks**



Operating with **natural gas, propane gas and coke oven gas**



Suitable for all **SB500F series torches**

Cutting speed  
Media consumption  
Operating life  
Width of cutting kerf  
Cutting standard

→ **Application**

Operational safety  
Occupational safety  
Quality testing

← Advantages at a glance





## Safe operation

Quality and safety has first priority at GeGa



High level of safety due to **external mixing** of medias



GeGa's proven **flat seats or sealing surfaces** serves for additional safety

- Cutting speed
- Media consumption
- Operating life
- Width of cutting kerf
- Cutting standard
- Application
- **Operational safety**
- Occupational safety
- Quality testing

← Advantages at a glance



## Reduced noise level

The SHEL-nozzle is approx. **2 dBA quieter** than conventional nozzles



The SHEL-nozzle raises the bar for **operational safety**

- Cutting speed
- Media consumption
- Operating life
- Width of cutting kerf
- Cutting standard
- Application
- Operational safety
- **Occupational safety**
- Quality testing

← Advantages at a glance





## Extensively tested

The SHEL nozzle was developed with **precision engineering** and **comprehensive testing**

→ All nozzles manufactured by GeGa are **tested before being delivered**

→ All nozzles are **quality certified**



- Cutting speed
- Media consumption
- Operating life
- Width of cutting kerf
- Cutting standard
- Application
- Operational safety
- Occupational safety

→ **Quality testing**

← Advantages at a glance

The designation SHEL means

- S** Silent
- H** Highly efficient
- E** Ejection type
- L** Low consumption





Quality, safety, reliability

**GeGa<sup>®</sup>**

