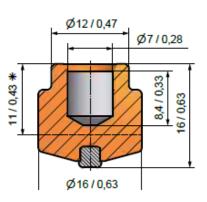
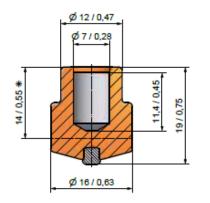
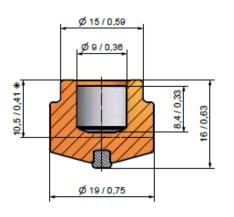
## \*> BETEK

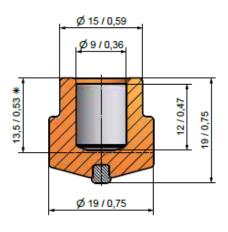












**BTSD1** 



**BTS02** BTSD16/19



**BTS03** BTSD19/16

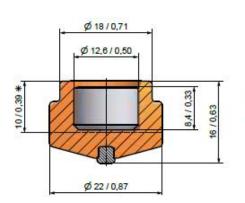


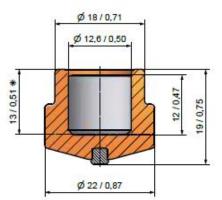
**BTSD19/19** 

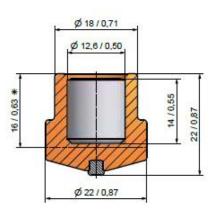


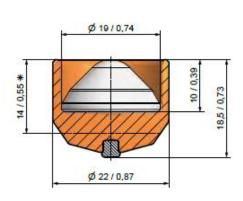
















BTS06BTSD22/19



BTS07 BTSD22/22

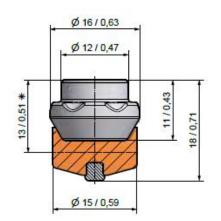


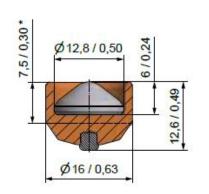
BTS08BTSD22/18,5SG

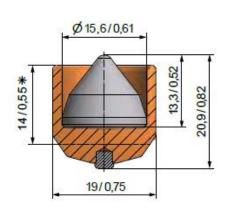














BTS10B BTSD16/18B



**BTS20**BTSD16/12,5SG

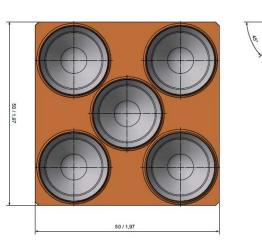


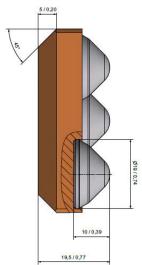
**BTS100** BTSD19/15,6SG











#### DIMENSIONS

Width in mm	Length in mm
50	50
75	75
100	100
125	125
150	150

Other sizes on request



### → BETEK

# TUNGSTUDS GENERAL MINING EXAMPLES



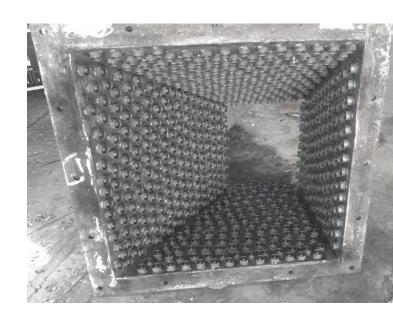




## **→BETEK**

# TUNGSTUDS CHUTES

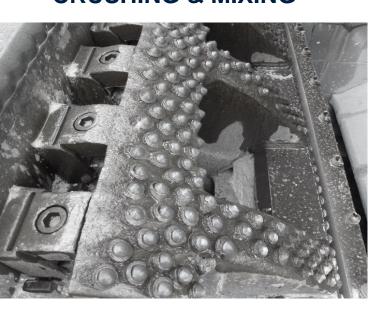






## → BETEK

# TUNGSTUDS CRUSHING & MIXING

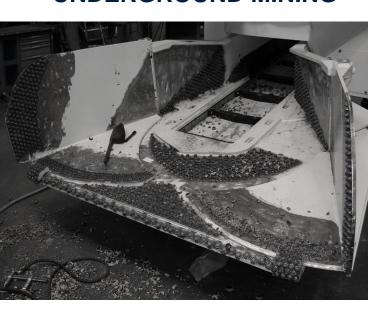






## → BETEK

# TUNGSTUDS UNDERGROUND MINING







## **→BETEK**

# TUNGSTUDS PLATES







### → BETEK

## **TUNGSTUDS**

#### **OPEN PIT MINING - EXAMPLES**







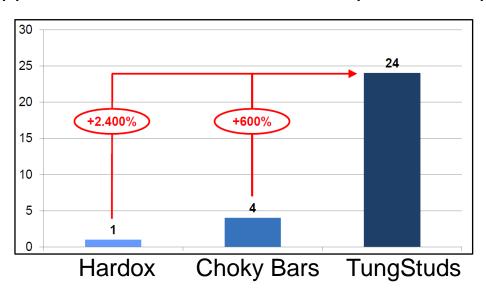
TungStuds | Presentation





#### **GENERAL LIFETIME COMPARISON (IN MONTHS)**

Application: Chutes, raw material up to 6% of quarz







## TUNGSTUDS MAIN CLIENTS



















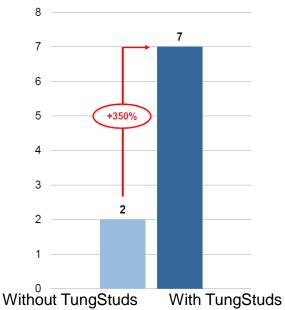


#### APPLICATION: IMPACT PLATE, HAZEMAG HSI-CRUSHER

Lifetime in months without and with TungStuds at a Cementcal Mine









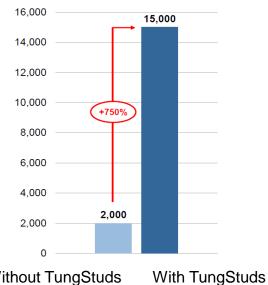


#### **APPLICATION: EXCAVATOR BUCKET**

Lifetime in hours without and with TungStuds at a Coal Mine







Without TungStuds



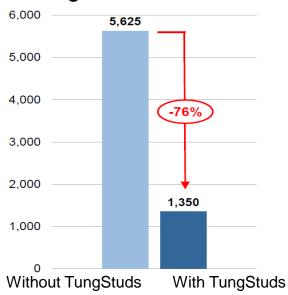


#### **APPLICATION: EXCAVATOR BUCKET**

Total costs for 15.000 hours without and and with TungStuds at a Coal Mine









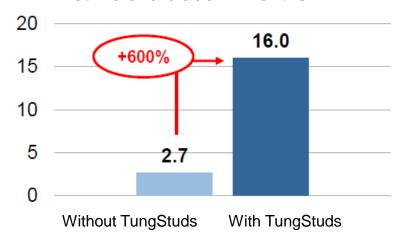


#### **APPLICATION: EXCAVATOR BUCKET IN CONCRETE MINE**





#### Lifetime of a blade in months





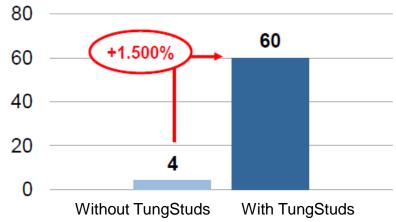


#### **APPLICATION: EXCAVATOR BUCKET IN CONCRETE MINE**





## Lifetime of a lip in months







#### APPLICATION: EXCAVATOR BUCKET IN CONCRETE MINE



Costs of a Blade 3.400.000 COP (approx. 1.180 USD)

Lifetime without Tungstuds: 2,7 months

New Lifetime with Tungstuds: 16 months

Hourly costs for technical setup: 22.000 COP

#### Annual costs per blade in Mio. COP



Without TungStuds

With TungStuds





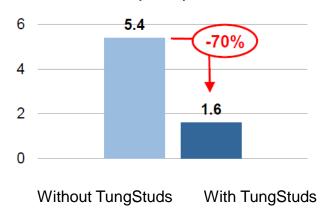
#### APPLICATION: EXCAVATOR BUCKET IN CONCRETE MINE



Costs of a Lip 1.800.000 COP (approx. 625 USD)

Lifetime without Tungstuds: 4 months New Lifetime with Tungstuds: 60 months

#### Annual costs per lip in Mio. COP





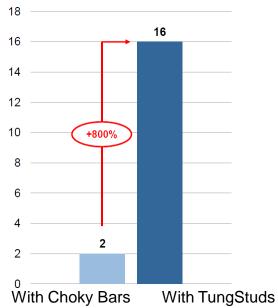


#### **APPLICATION: SIDE PLATES OF ROLLER PRESS**

Lifetime in months without and with TungStuds at a Cementcal Mine









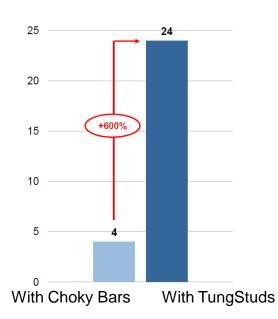


#### **APPLICATION: CHUTES OF RAW MATERIAL (QUARZ 6%)**

Lifetime in months with Choky Bars and TungStuds at a Cementcal Mine









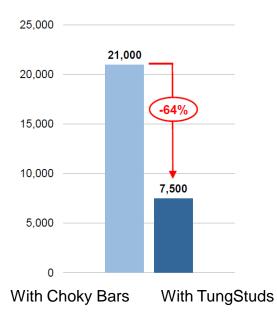


#### **APPLICATION: CHUTES OF RAW MATERIAL (QUARZ 6%)**

Annual costs each m² with Choky Bars and TungStuds at a Cementcal Mine











## TUNGSTUDS BENEFITS

- Quick Fast and easy welding procedure
- ➤ Flexible Can also be applied in irregular surfaces
- Replaceable TungStuds can be replaced when worn
- Tough High wear resistance due to tungsten carbide core
- Effective Less maintenance and higher productivity
- Efficient Cost reduction through less downtime



# \*> BETEK

