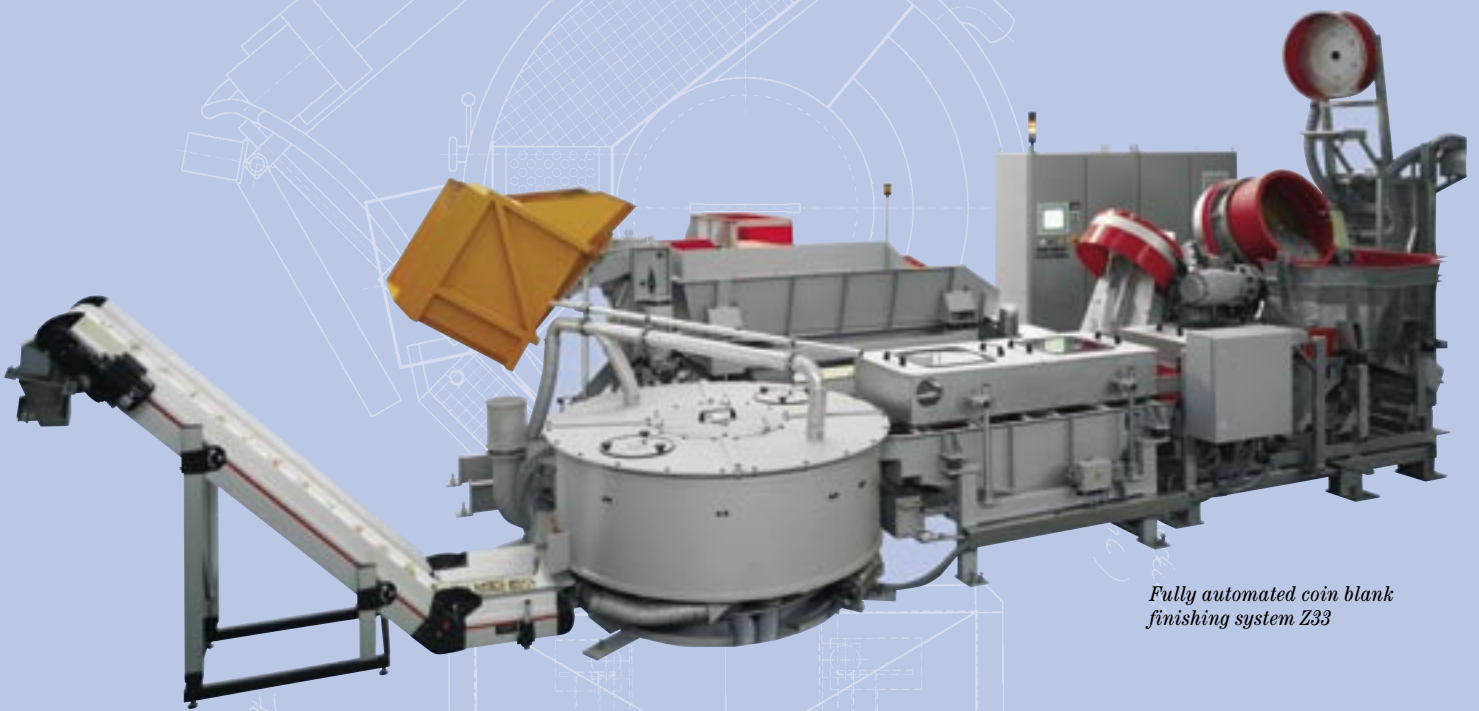




*The inspiration for high technology solutions can often be found in nature*

## ... to achieve highest surface quality standards for circulation coin blanks



*Fully automated coin blank finishing system Z33*

**By taking established principles and standards, SPALECK has advanced productivity of coin blank finishing to new levels**

**SPALECK**  
proven quality

Coin blank finishing technology

140

170

200

290

320

# How to improve an established procedure? Can we deburr and degrease coin blanks, without damage?

SPALECK has more than 25 years experience world wide in the coin blank finishing industry. In an increasingly competitive market quality and economy must be balanced. SPALECK systems offer this balance.

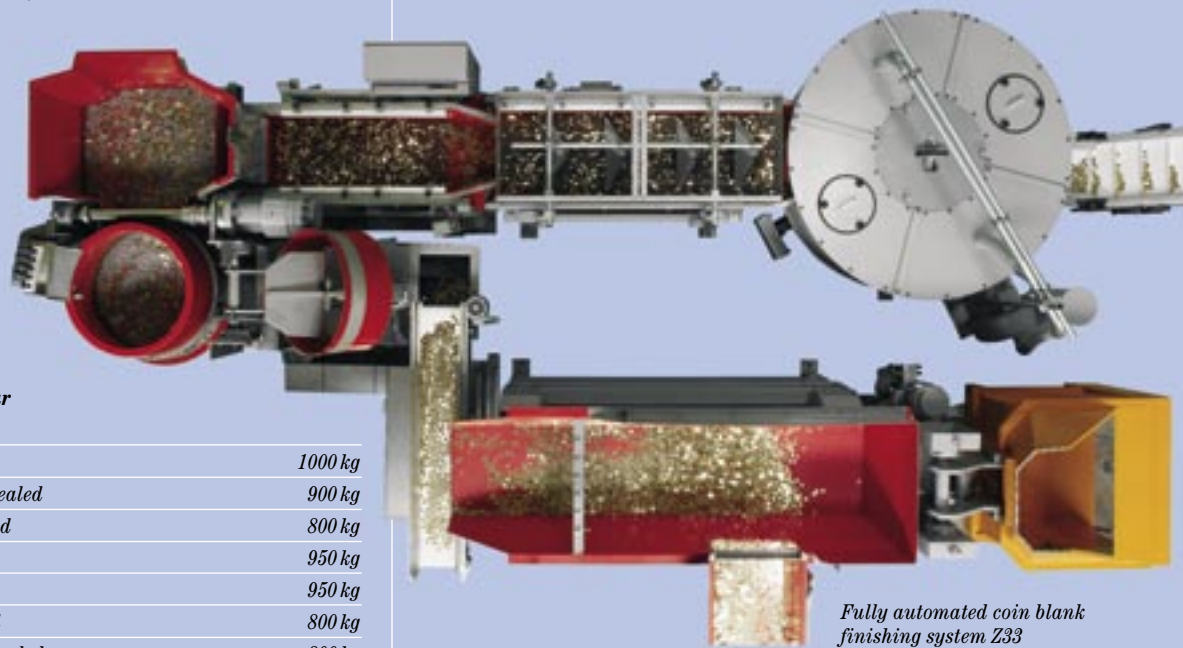
## Centrifugal finishing technology

During annealing oxides are a normal occurrence. These oxides are removed during the process and the resultant blanks are polished and protected against discolouration.

In the minting step, the die-life is considerably improved.

## The obvious advantages:

- ◆ short treatment cycles due to high process intensity
- ◆ uniform treatment
- ◆ no down time between different blank types
- ◆ 100% batch to batch security
- ◆ full integration into totally automated coin blank production
- ◆ system treatment capability for different blank types
- ◆ total water and chemical consumption control and measurement to allow economical treatment



## Production per hour

Copper, annealed	1000 kg
Copper, plated, annealed	900 kg
Copper, not annealed	800 kg
Brass, annealed	950 kg
Brass, plated	950 kg
Brass, not annealed	800 kg
Bronze, plated, annealed	800 kg
Nordic Gold, annealed	780 kg
Copper Nickel, annealed	1000 kg
Stainless steel, annealed	680 kg
Aluminum	400 kg
Nickel	850 kg

Fully automated coin blank finishing system Z33