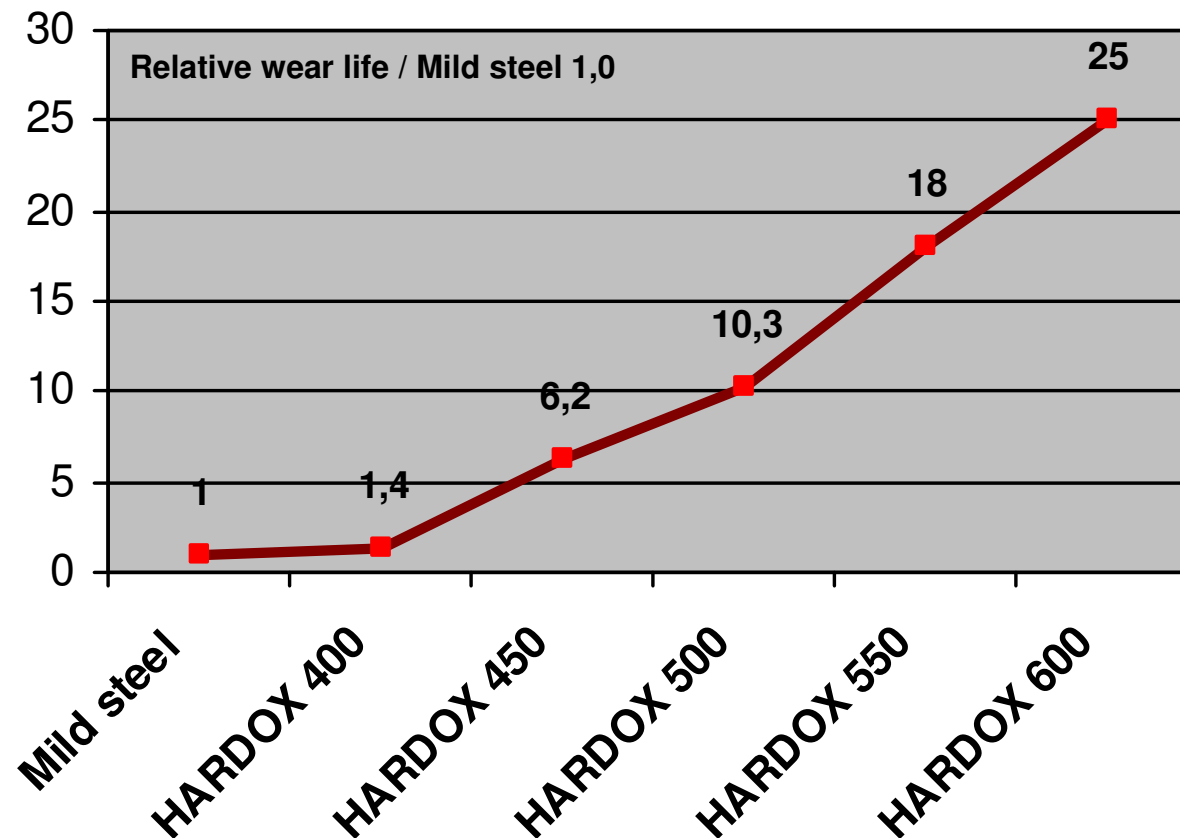


Relative wear life



Estimated relative wear life provided sliding wear and abrasive glass, 750 HV.



Contamination



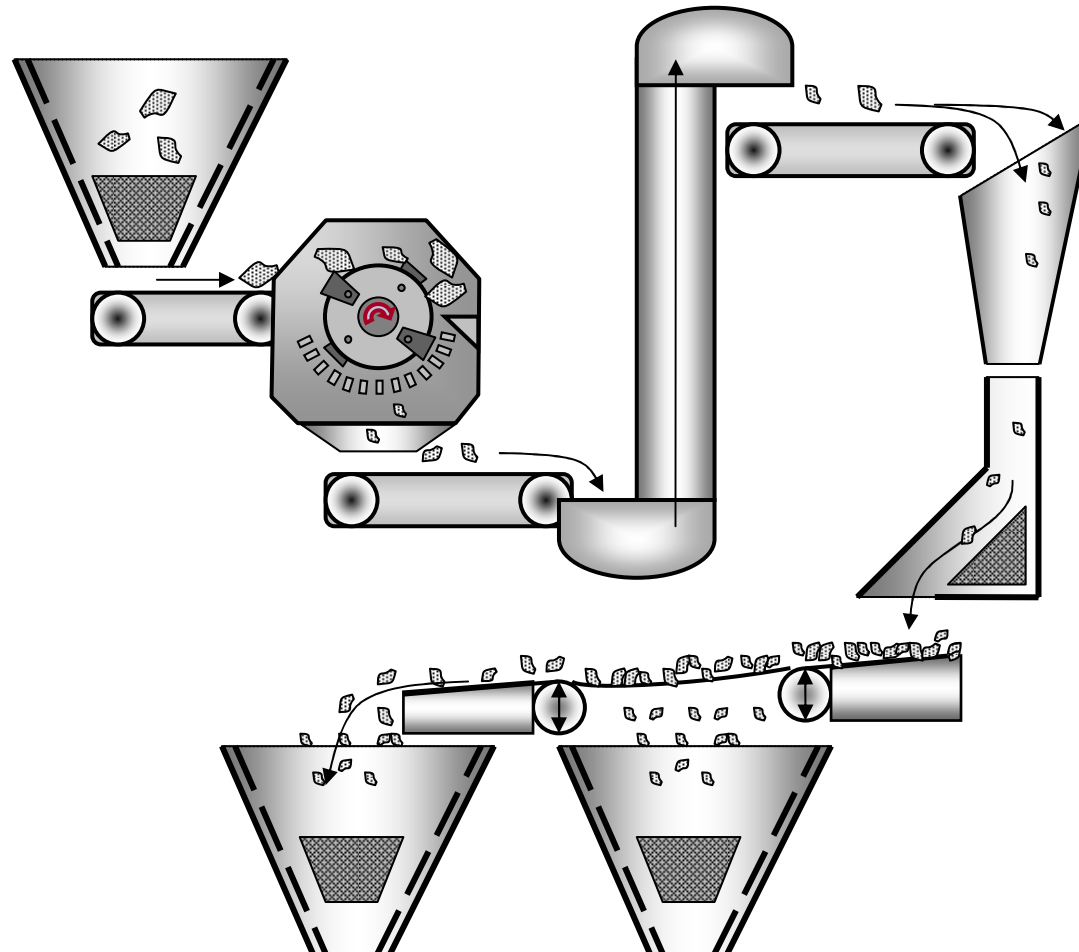
- A high degree of purity is required in glass cullet.
- Wear plates made of ceramics or steel contributes to the contamination.
- Going from a mild steel to HARDOX 500 reduces the contamination by 90%.

Contamination – an example



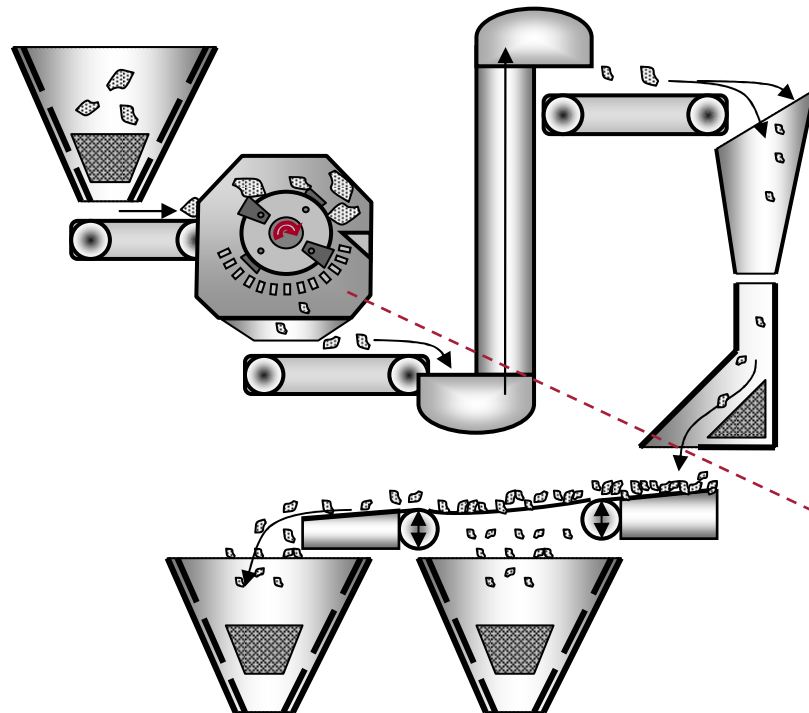
- A glass recycling plant is processing 100 000 tonnes per year.
- The contamination separators are placed in the middle of the process.
- An wear plate can be considered as consumed when 30 % is worn.
- By using wear plates in 400 HBW hardness, the yearly consumption will be about 20 tonnes.
 - 3 tonnes of steel is added to the recycled glass, equivalent to 30 g / ton.
- By changing to 500 HB wear plates, the consumption is reduced to 10 tonnes.
 - 1,5 ton is added to the process, equivalent to 15 g / ton.

Schematic flow of recycling plant



- Hoppers
- Chutes
- Feeders
- Contamination Separators
- Conveyor system
- Crusher
- Sieves

Crusher – design solution

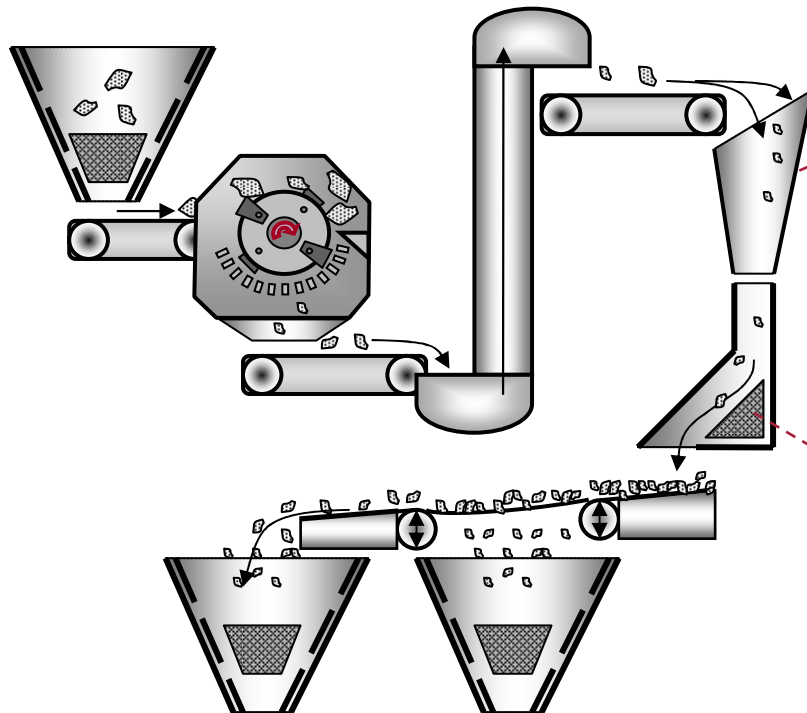


- Jaw crusher.
- Hammer crusher.
- Rolling crusher.
- Disc crusher.



- Impact wear.
- Liner plates HARDOX 450
- Hammers HARDOX 500.

Liner plates – design solution



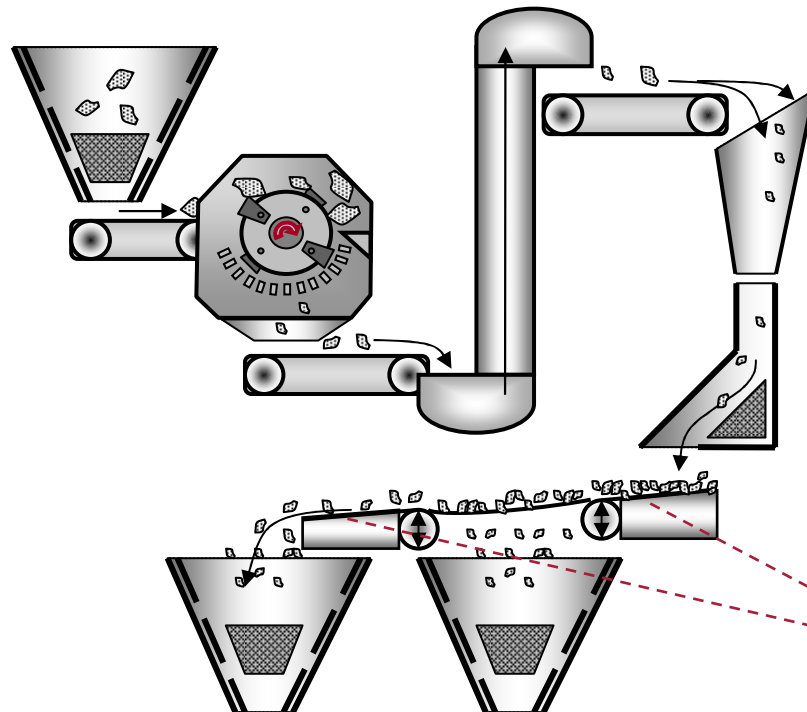
- Very high impact wear.
- High speed due to the conveyor band.
- Incident angle between 45 and 90°.

→ **HARDOX 500-600**

- Impact wear.
- Design with a deed pocket of abrasive material. The glass material shelters the surface from wear.

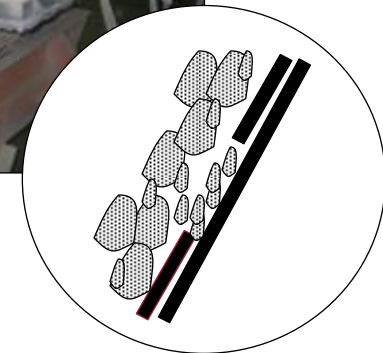
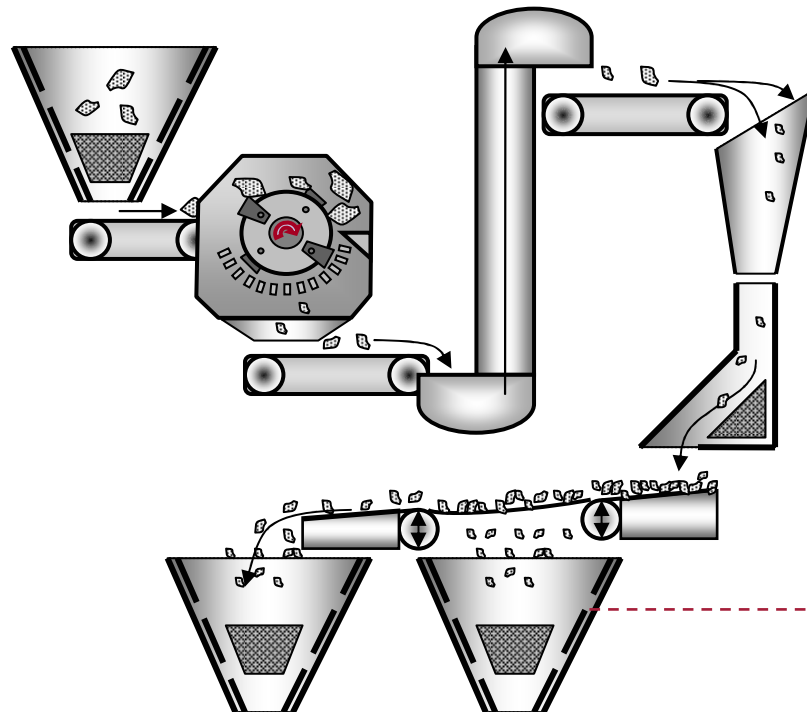
→ **HARDOX 500**

Feeder table – design solution



- Very high sliding wear.
→ **HARDOX 600.**

Hoppers - design solution



- Wear strips at right angle to the flow. The material wears on itself.

→ **HARDOX 500.**

Advantage HARDOX



**Chutes, hoppers, feeders, crusher
hammers, anvils, liner plates,
containers, buckets ...**



- Advantage HARDOX due to:
- Excellent wear resistance.
- Homogenous mechanical properties.
- Work shop friendliness: cutting, welding and bending.
- Professional technical support.
- Good availability of plate



Glass demands plates with high wear resistance.

**HARDOX wear plate
is the best choice on the market.**

HARDOX®
WEAR PLATE