



The Washing screw: Economic and safe cleaning & steeping technology

Innovations for a **better world.**

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Overview

The washing screw is an **effective** counter flow cleaning and steeping system offering...

- **Reliable removal** of dirt and dust and microbes by using a twin screw washing process
- Effective **floating barley separation**
- **Rapid and homogenous mixing of water and grains** resulting in a fast increase of surface moisture
- **Water savings** up to 50%, compared to conventional steeping technologies
- **Automatic Cleaning-In-Place (CIP) system**

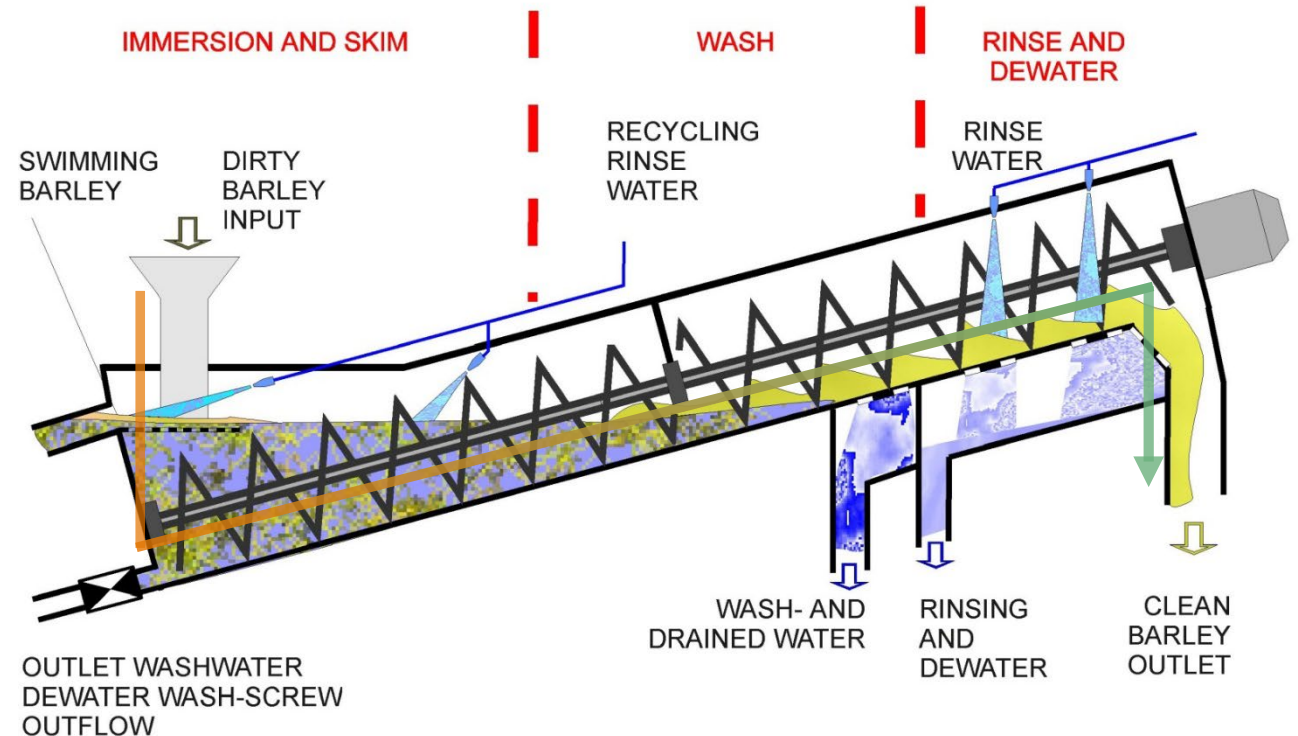


Technical Data

Key figures of the washing process:

- Initial barley m.c.: 12 – 14 %
- Surface m.c. after washing: approx. 28 %
- Water temperature: up to 25 °C
- Retention time: 25-40 sec.
- Capacity for barley*: 70-100 t/h
- Screw type: twin screw
- Inclination: approx. 15°
- Total length: approx. 10 m
- Trough width inside: 1480 mm
- Water consumption: down to 0.55m³/t barley*

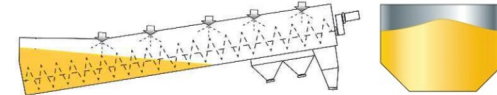
* Depending on barley quality and water recirculation



Process benefits



CCS + CCS



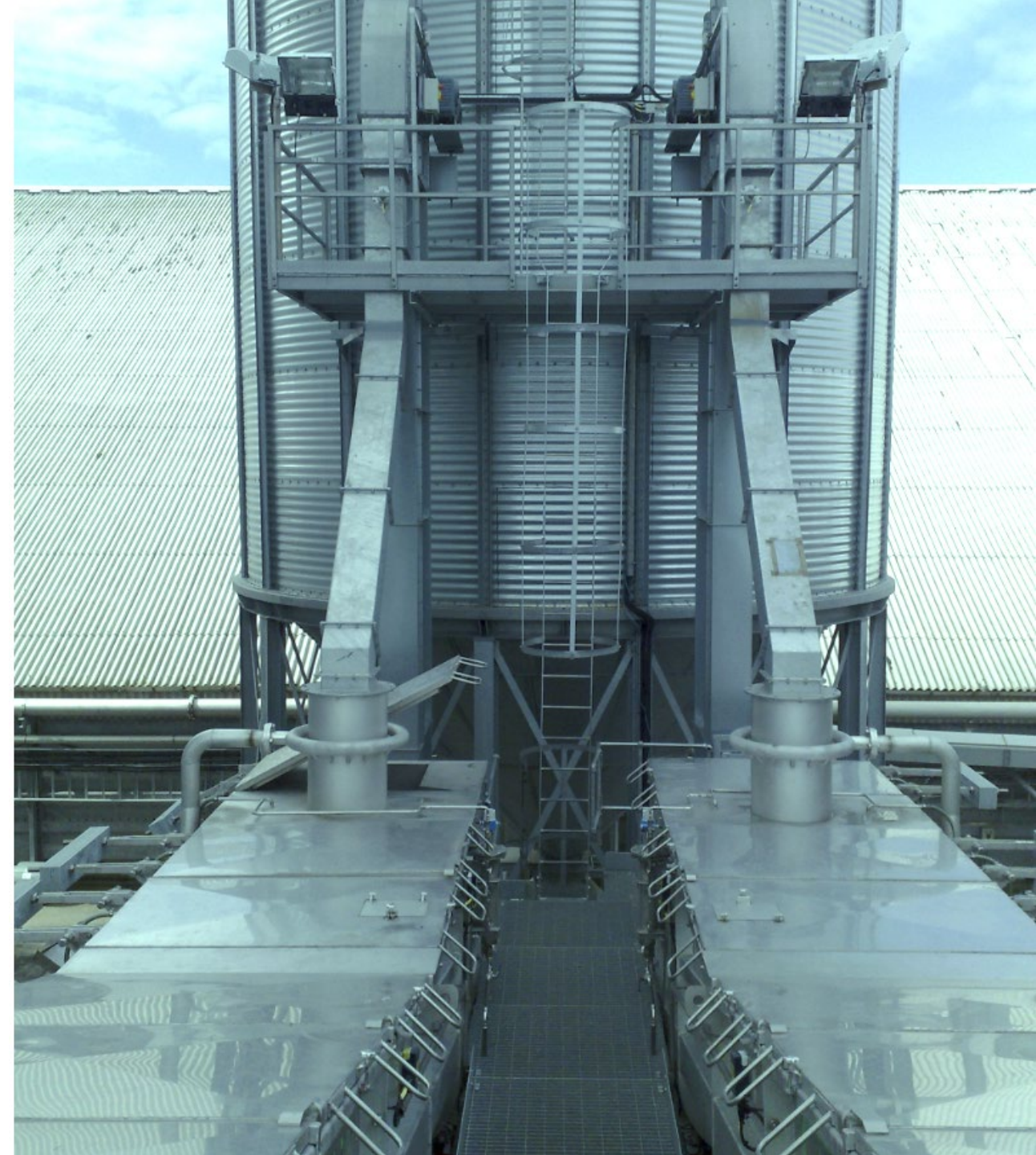
Washing Screw + CCS

Water consumption	1 m ³ /t + 1 m ³ /t	0.55 m ³ /t + 1 m ³ /t
Fresh Water 100 t Barley	200 m ³	155 m ³
Fresh Water saving		~ 23%
Waste Water 100 t Barley	152 m ³	107 m ³
Waste Water saving		~ 30%
Process time	30 – 48 hours	down to 24 hours
	(Transfer time is additional to steeping time)	(Transfer time to steep is used for pre-steeping and floating barley separation)

References

Technical **maturity** is proven by increasing number of satisfied maltsters worldwide:

- *1x customer in Ireland*
- *3x customers in U.K.*
- *1x customer in Czech Republic*
- *1x customer in Vietnam*
- *2x customers in U.S.A.*
- *1x customer in Argentina*



**The washing screw:
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Contact us!

We care.

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