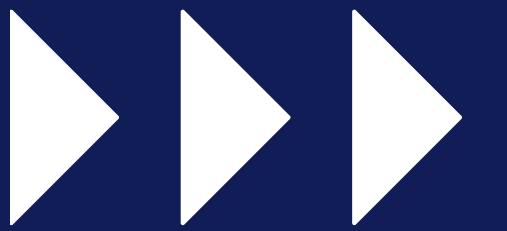




UNIPROM



Billet Plant

Presentation Summary



BILLET PLANT CAPABILITY

- Annual capacity 70.000 tons of products
- Full range of alloys in 6xxx series
- Other alloys are possible on request
- Current diameters
- Ø178mm, Ø203mm and Ø354mm
- Log length
- Long 2.000mm to 7.000mm
- Short 400mm to 2.000mm (on request)
- All finished goods are stored inside until shipment
- Products delivered according to DIN EN486

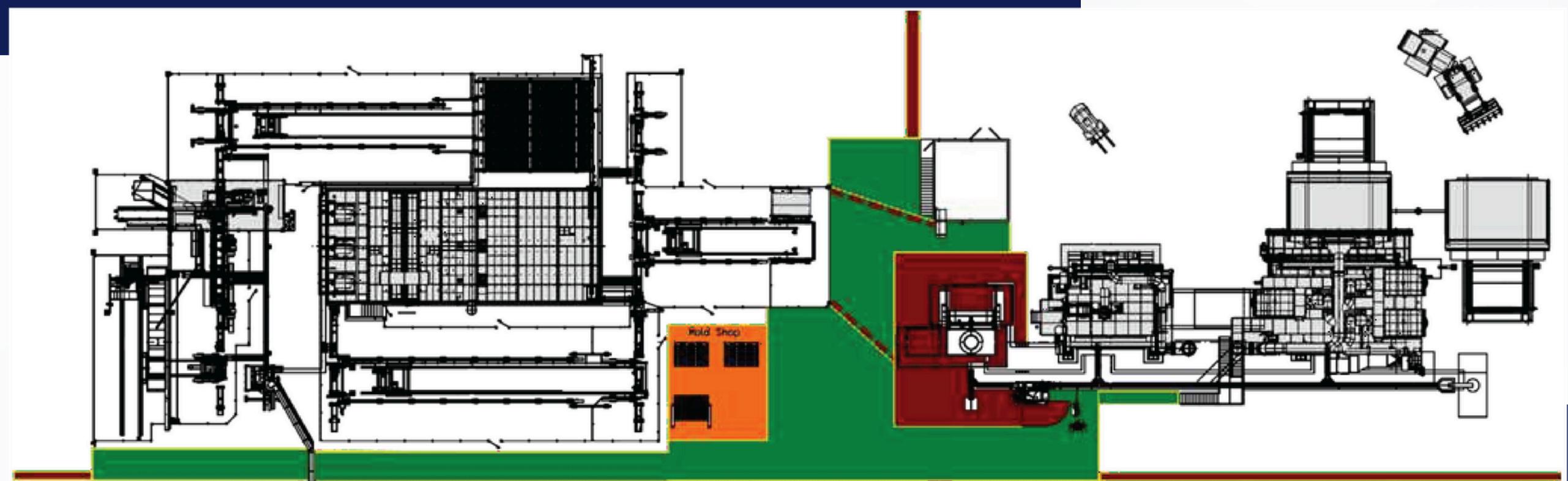


BILLET PLANT LAYOUT



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- A – Single chamber melting furnace with charging machine
- B – Holding furnace
- C – Inline siphoning reactor (degasser) & dual grain refiner feeder
- D – Casting machine
- E – Continuous homogenising
- F – Sawing and packaging



FURNACES

- High energy efficient 45 ton tiltable single chamber melting furnace
- Melt rate 14t/h
- Equipped with electromagnetic stirrer (EMS)
- Furnace camera for safe metal charging
- 35 ton holding furnace
- Furnaces equipped with internal metal level control for automated and safe metal transfer



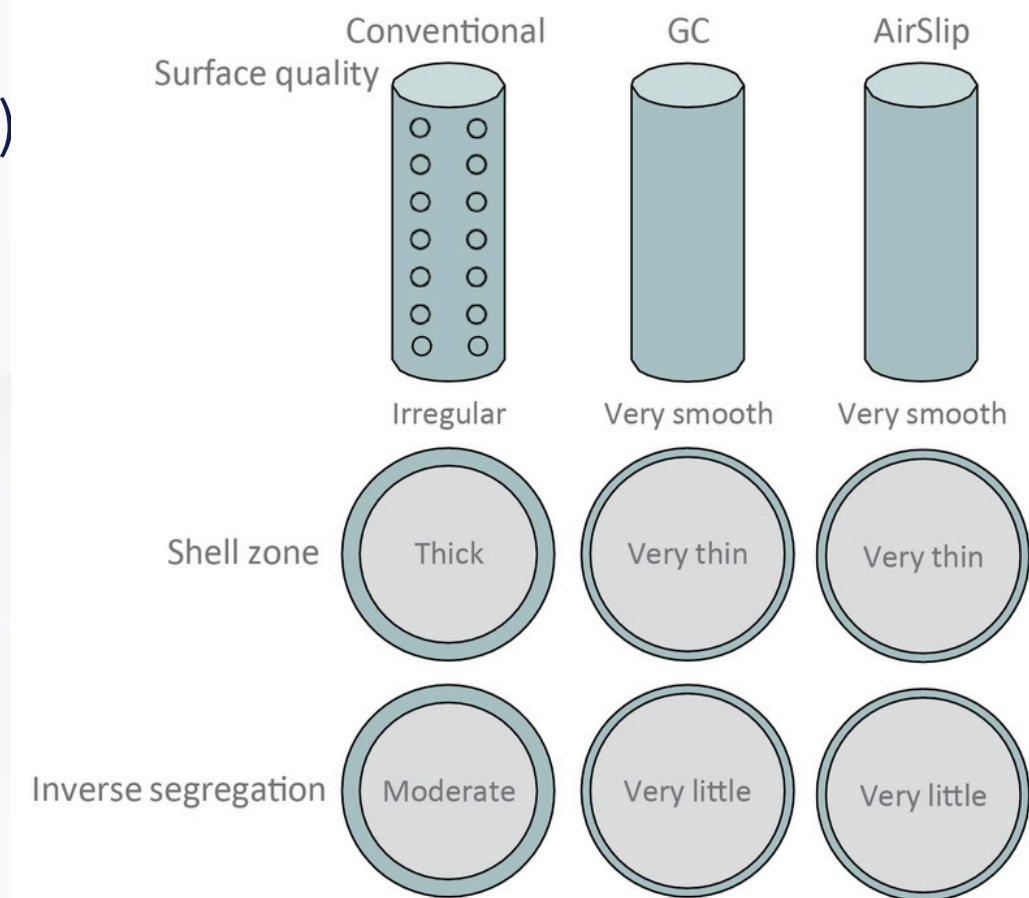


CASTING LINE

- Fully automated hands-off casting
- Maximum casting length 7.500mm
- Internally guided cylinder
- Mould tables
- Ø178 (7")
- Ø203 (8")
- Ø354 (14")
- Fully automated hands-off casting
- Casting technology
- Hot-top with gas assisted moulds
- Good operating window to deliver billets with smooth surface
- Very thin shell zone
- Very little inverse segregation

CASTING TECHNOLOGY

- Hot-top gas assisted moulds
- Marketed by Wagstaff and Hycast (Hydro Aluminium) branded as AirSlip and GC (gas cushioning)
- Technology delivered by Hertwich Engineering
- Characteristics
 - Dual graphite rings, casting oil and process gas
 - Less risk for oil contamination in process
 - Better and more uniform process gas distribution
 - Casting oil and process gas adjusted individually
 - Water jet-ring



MELT REFINING

- Inert siphoning reactor (degasser)
- Eliminates common degasser drawbacks such as
- Fully inert atmosphere during operation
- No back reaction of hydrogen
- Raised metal level eliminates inclusion carryover
- Exceptionally low dross generation
- Drain free
- No risk for alloy contamination when switching between alloys
- Excellent removal of Hydrogen and inclusions
- No mechanical filtration system required downstream for billets
- Dual grain refiner feeder
- Assures correct grain refiner feed rate



CONTINUOUS HOMOGENISING

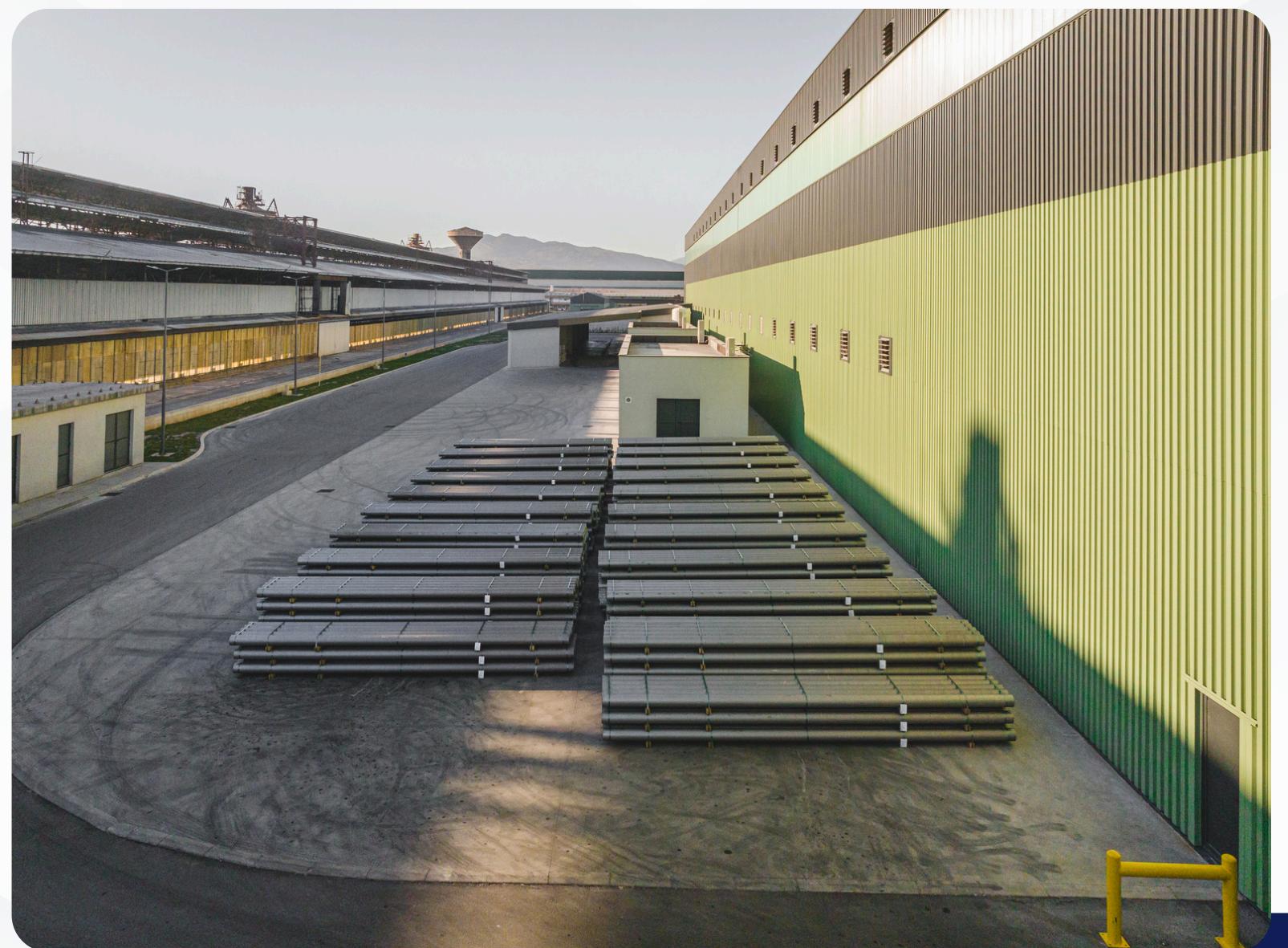


- Fully automated continuous homogenising plant from Hertwich
- Electrically heated
- Billet visual inspection station
- Automated ultrasonic inspection
- Log tracking from casting throughout homogenising and packaging



SAWING AND PACKAGING

- Fully automated sawing and packaging
- Long logs 2.000mm to 7.000mm
- Short logs 400mm to 2.000mm (on request)
- Bundled with polyester (PET) on wooden runners
- All finished goods are stored inside until shipment



SUMMARY

- The new plant can supply the most demanding customers with quality products
- All equipment delivered by Hertwich Engineering Austria
- Annual output of 70.000 tons
- Full range of alloys in 6xxx series
- Flexibility in packaging
- Log length
- Long logs 2.000mm to 7.000mm
- Short 400mm to 2.000mm (on request)
- Bundled with polyester (PET) on wooden runners
- All finished goods are stored inside until shipment
- Products delivered according to DIN EN486



UNIPROM - TEAM

The key to our company's success is our team's hard work and great energy, which consists of competent and capable employees. Also, success does not come overnight, successful companies are built gradually, step by step.

The company Uniprom was founded in 1991, and its growth and development took place in the continuity of planned development and constant investments.



VESELIN PEJOVIĆ
Founder - Director



STEVAN PEJOVIĆ
Deputy General Director



UNIPROM

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