

# Printing, coating and drying of metal sheets made of tinplate, aluminium or steel

While markets are getting tougher every day it is of utmost importance to be able producing high-end quality at lowest possible manufacturing costs.

This requires the most modern production lines which offer:

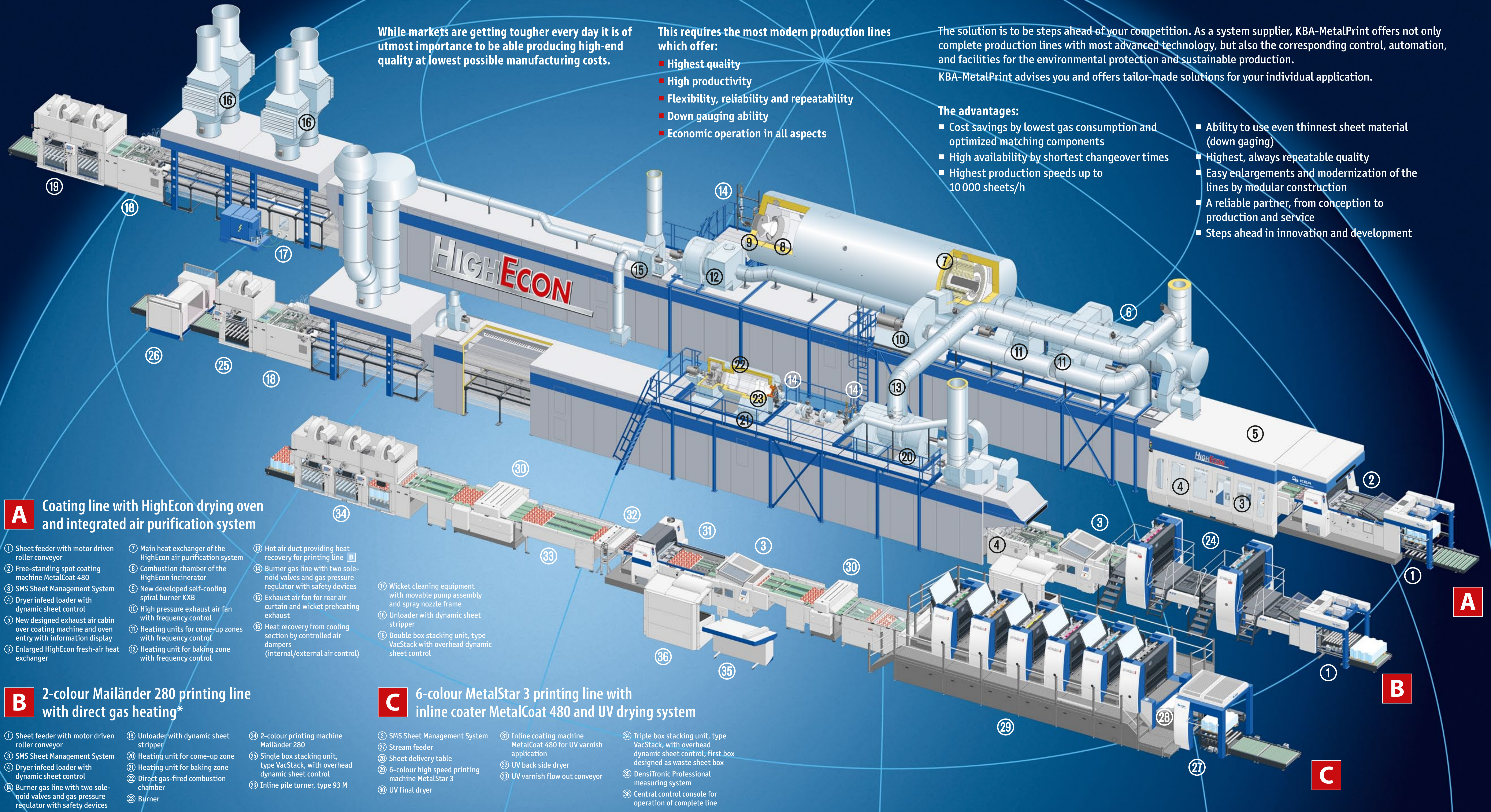
- Highest quality
- High productivity
- Flexibility, reliability and repeatability
- Down gauging ability
- Economic operation in all aspects

The solution is to be steps ahead of your competition. As a system supplier, KBA-MetalPrint offers not only complete production lines with most advanced technology, but also the corresponding control, automation, and facilities for the environmental protection and sustainable production.

KBA-MetalPrint advises you and offers tailor-made solutions for your individual application.

**The advantages:**

- Cost savings by lowest gas consumption and optimized matching components
- High availability by shortest changeover times
- Highest production speeds up to 10 000 sheets/h
- Ability to use even thinnest sheet material (down gaging)
- Highest, always repeatable quality
- Easy enlargements and modernization of the lines by modular construction
- A reliable partner, from conception to production and service
- Steps ahead in innovation and development



**A** Coating line with HighEcon drying oven and integrated air purification system

- ① Sheet feeder with motor driven roller conveyor
- ② Free-standing spot coating machine MetalCoat 480
- ③ SMS Sheet Management System
- ④ Dryer infeed loader with dynamic sheet control
- ⑤ New designed exhaust air cabin over coating machine and oven entry with information display
- ⑥ Enlarged HighEcon fresh-air heat exchanger
- ⑦ Main heat exchanger of the HighEcon air purification system
- ⑧ Combustion chamber of the HighEcon incinerator
- ⑨ New developed self-cooling spiral burner KXB
- ⑩ High pressure exhaust air fan with frequency control
- ⑪ Heating units for come-up zones with frequency control
- ⑫ Heating unit for baking zone with frequency control
- ⑬ Hot air duct providing heat recovery for printing line B
- ⑭ Burner gas line with two solenoid valves and gas pressure regulator with safety devices
- ⑮ Exhaust air fan for rear air curtain and wicket preheating exhaust
- ⑯ Heat recovery from cooling section by controlled air dampers (internal/external air control)
- ⑰ Wicket cleaning equipment with movable pump assembly and spray nozzle frame
- ⑱ Unloader with dynamic sheet stripper
- ⑲ Double box stacking unit, type VacStack with overhead dynamic sheet control

**B** 2-colour Mailänder 280 printing line with direct gas heating\*

- ① Sheet feeder with motor driven roller conveyor
- ② SMS Sheet Management System
- ③ Dryer infeed loader with dynamic sheet control
- ④ Burner gas line with two solenoid valves and gas pressure regulator with safety devices
- ⑤ Unloader with dynamic sheet stripper
- ⑥ Heating unit for come-up zone
- ⑦ Heating unit for baking zone
- ⑧ Direct gas-fired combustion chamber
- ⑨ Burner
- ⑩ 2-colour printing machine Mailänder 280
- ⑪ Single box stacking unit, type VacStack, with overhead dynamic sheet control
- ⑫ Inline pile turner, type 93 M

\*also available with direct oil heating

**C** 6-colour MetalStar 3 printing line with inline coater MetalCoat 480 and UV drying system

- ① SMS Sheet Management System
- ② Stream feeder
- ③ Sheet delivery table
- ④ 6-colour high speed printing machine MetalStar 3
- ⑤ UV final dryer
- ⑥ Inline coating machine MetalCoat 480 for UV varnish application
- ⑦ UV back side dryer
- ⑧ UV varnish flow out conveyor
- ⑨ Triple box stacking unit, type VacStack, with overhead dynamic sheet control, first box designed as waste sheet box
- ⑩ DensiTronic Professional measuring system
- ⑪ Central control console for operation of complete line

Steps ahead in Metal Decorating