

Application Success Stories

KRONE Semitrailers and load carriers

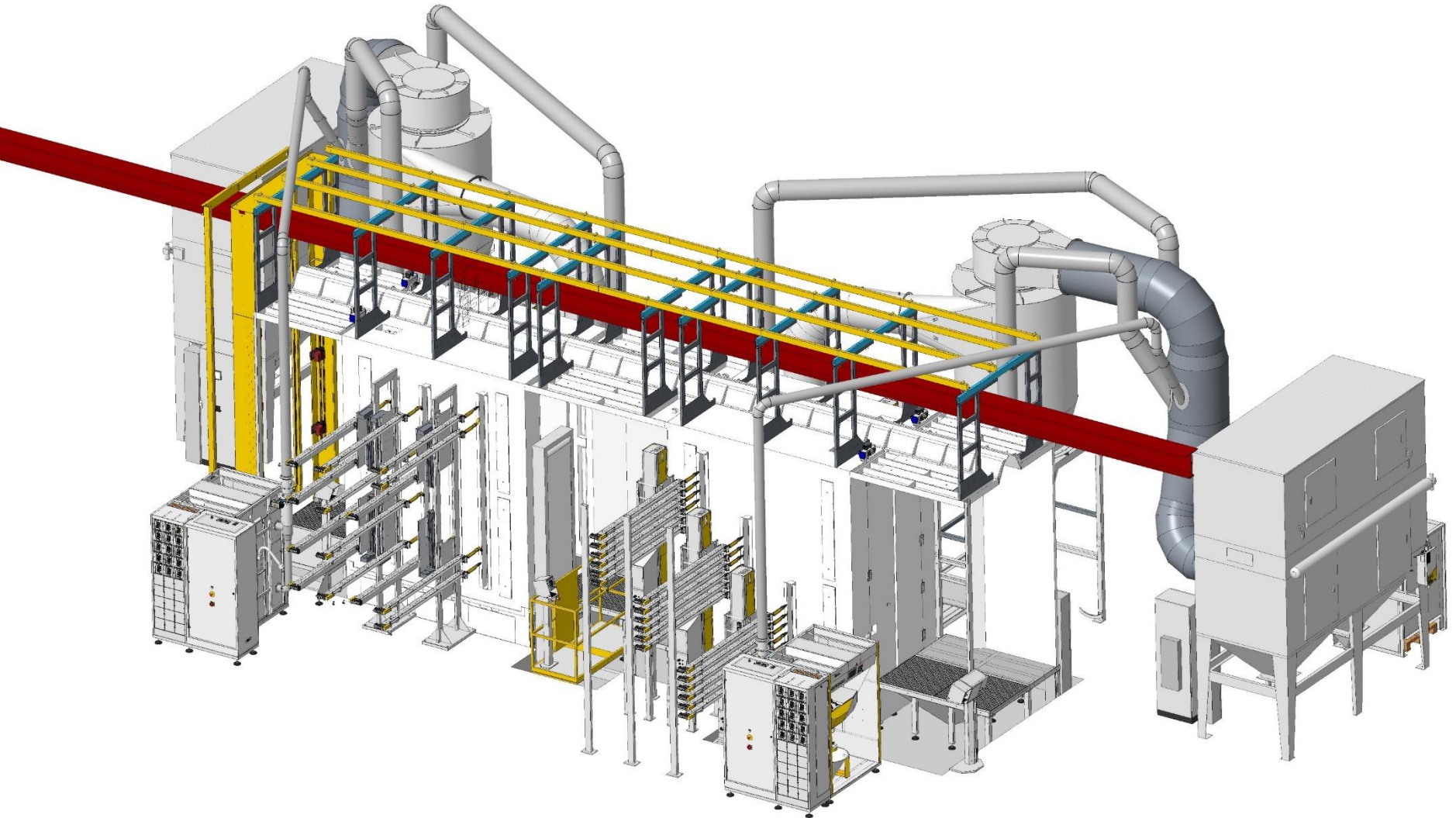


Time reduction

Powder savings

Flexibility

Application Success Stories



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Technical Data

Parts: Semitrailers and load carriers

Parts size:

| | |
|---|-----------|
| H | 3'000 mm |
| W | 1'050 mm |
| L | 16'500 mm |

Conveyor speed:

V 3,2 m/min (6.8 min cycle time)

Scope of delivery per coating line:

1 x OptiFlex® AS06 – 49 P
47 x OptiGun® GA03 – 1700 automatic gun
2 x OptiSelect®2 GM03 manual gun
var. ZA / ZS axis with 33 x UA 04 (horizontal axis)
2 x OptiCenter® OC03 with application pumps
49 x AP01.1 application pump
1 x MagicCompact® BA04 special (dual version)
6 x BigBag



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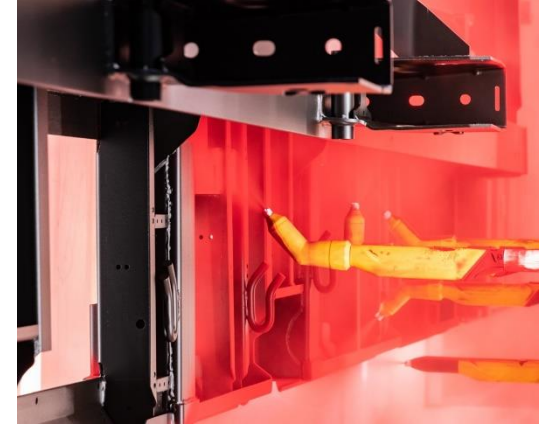
KRONE has been producing trailers and semitrailers for road freight transport at its Werlte, Germany, base since 1970. In 2006 GEMA installed a pioneering automated system with two MagicCylinder double cabins and a variety of deliverable lifting equipment and axis.

From 2013 KRONE planned to take the degree of automation of surface coating of up to 16.5 m long trailers to the next level. From 2016 onwards, the €40 million "Future Lab" project was implemented within 17 months in a new 16,500 m² building which is over 20 m high.



Each semitrailer chassis is cathodic dip coated and coated within a maximum of 7 minutes.

Gema designed a concept for KRONE with the highest level of automation. Every coating line is equipped with a dual version of the extra-large MagicCompact system. Application pumps guarantee the powder feed over a long distance with 6 BigBag and 2 OptiCenter each. The contours of the huge trailer chassis are dynamically recorded with 4 scanners. The 47 automatic coating guns are continuously, individually and exactly positioned over the infeed axes. Areas that are difficult



to access are manually recoated at two stations.

The amount of time saved per coating procedure and the associated increase in capacity are tremendous. At the old plant, 45 items were processed per shift: now it is 70–80 units/shift. Colour changes are possible within 10 minutes and up to 15 % powder is saved. The new coating system by Gema guarantees continuous production for KRONE, increases efficiency and is prepared for further automation using robots.

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