



ALPINE METAL TECH

NUMTEC GEGA MAGNEMAG KOCHH&K KNORR MAKRA

# ALPINE METAL TECH AT INDOMETAL 2014



11-13 dec 2014

Jakarta International Expo  
Kemayoran, Indonesia

**BOOTH J13**

Visit us and inform about our latest developments in

CASTING EQUIPMENT

ROLLING EQUIPMENT

AUTOMOTIVE EQUIPMENT

[www.alpinemetaltech.com](http://www.alpinemetaltech.com)

# YOUR **ONE-STOP** SOLUTION SUPPLIER

Alpine Metal Tech is a world leading company serving the iron, steel and aluminium wheel industry with comprehensive solutions.

The Alpine Metal Tech Group develops, designs and produces coking plant equipment, special solutions for long rolling, product identification and product inspection as well as complete packages for continuous casting machines. Further Alpine Metal Tech delivers special applications for testing, production and handling of aluminium wheels and together with Koch Industrieanlagen GmbH supplies solutions and technology for coking plants.



The Alpine Metal Tech product portfolio is structured in:

## CASTING

Alpine Metal Tech is the only supplier of a support package for continuous casting machines. We call it the Alpine Metal Tech CCM Package. The Alpine Metal Tech CCM Package supports and optimizes the performance of continuous casting machines and consists of a shroud manipulator, a powder feeder, a preheating station, a torch cutting machine, a deburrer, a marking and reading system, and a sizing and conditioning equipment. Use of this package ensures a smooth casting process and reliable and efficient cutting, deburring, marking, and reading for semifinished steel products.

## ROLLING

### LONG ROLLING

The processes in the rolling mill area are becoming more and more complex, accordingly the meshing of mechanics, hydraulics and electrics is likewise getting increasingly closer. Alpine Metal Tech supports the steelworks operators with individual solutions for the new build sector and for the modernisation of special machines and overall systems including automation, visualisation and network technology. The range of products in detail incorporates systems for rolling (rolling structures for the hot rolling of long products such as profiles, carriers, rails special and rod steels), transporting (roller tables, chain conveyors, manipulators, loading beds, turnover devices and sliding equipment) and processing (cutting, sawing, shearing, cooling and aligning).

Alpine Metal Tech is a technology leader in the development of machines and plants for rolling of sheet piles and special profiles. In future, sheet piles will increasingly be used as support and casing walls for the construction and extension of port facilities, river drainage systems and in structural and civil engineering. This technology is increasingly being used to protect and preserve conservation areas and water regulations, e.g. as flood protection for the UNESCO Cultural Heritage site at the lagoon in Venice.

## IDENTIFICATION

Product tracking traces products back to the source and is particularly important in industries with exceptionally high standards for quality and documentation, such as the steel, aluminum, automotive, and aerospace sectors. Additionally, increasing globalization and the rapid pace of consolidation in the steel industry have led to a rising need for logistics concepts incorporating accurate and reliable marking and tracking. This segment of the steel industry has major untapped potential for further cost savings.

Alpine Metal Tech's technologies are suited for the logistic tracking of products and the identification of their quality characteristics. Both semifinished and finished goods are marked with marking machines and recognized using special reading systems that permit their identification in each phase of the manufacturing and logistics process. Various methods are used in product identification, including stamping, needle marking, metal spray, and paint spray technologies. In the field of paint marking technology, Alpine Metal Tech offers high resolution marking systems for applying logos, names, codes, and symbols to enable easy recognition of the steel supplier during and after the production process.

## INSPECTION

The ever-increasing demands on quality and tight tolerances for achieving higher quality assurance in finished steel products have required a growing range of automated quality control technologies in the steel production process. Products have to be inspected according to set standards, and all test results have to be recorded. Alpine Metal Tech is a leading provider of flexible, industry-proven, optoelectronic measuring and image processing systems for the contactless, fully automated inspection of the most complex sections, including rails, beams, angles, round bars, flat bars, squares, and tubes. Alpine Metal Tech's turnkey, nondestructive inspection lines encompass everything from design, engineering, supply, and installation to final commissioning of integrated lines for products such as rails.

The lines essentially comprise brushing machines for the removal of loose scales, measurement gauges, straightness measuring units, eddy current testing units for detecting surface defects, and ultrasonic testing units for internal defects. The integrated inspection lines include central processing and control units to generate quality reports, online color marking devices, and all necessary auxiliary systems.

## AUTOMOTIVE

Alpine Metal Tech is a world leading supplier of machines and systems to support aluminum wheel production, from handling, coding, machining, and measurement to testing. In close cooperation with the automotive industry and leading vehicle wheel manufacturers, Alpine Metal Tech has developed an extensive repertoire of measuring and testing systems that guarantee the quality and safety of the finished products. Top quality equipment optimizes the aluminum wheel manufacturing process and creates the conditions for stable and efficient production with the lowest reject rates and highest product quality in the industry.

Aluminum wheel producers benefit from automated production processes, improved quality control, and minimized investment costs. During the manufacture of aluminum wheels, a special cast parts coding process developed by Alpine Metal Tech is employed to automatically guide the unfinished parts through the entire finishing process and direct them to the various processing operations. New laser measuring techniques further increase productivity. Our expertise in measuring cast parts has been successfully adapted for the measurement of engine parts and will soon be used industry-wide.