

Making Your Mark

Large Steel Coil Processor Marks For Safety, Quality Checks With High Legibility A Key To Success

Application Success Case Study – Taylor Coil Processing

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Matthews Marking Products



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Loardstown, Ohio – July 2005 To assure customers of precise identification for its flat-rolled steel coils products, Taylor Coil Processing has recently installed an efficient, sophisticated ink-jet marking system providing extremely high legibility. This has been particularly helpful for their customers in the aircraft and automotive industries, enabling them to comply with government inspection standards. It is also critical in tracing Taylor's own production cycles.



Taylor, a U.S. division of its Stony Creek, Ontario, Canadian parent company, is a major processor of steel coils, which are supplied to steel producers as well as a broad range of OEMs for further processing. Taylor's capabilities at the Loardstown plant include slitting, straightening, leveling, cut to length and inspection on eight different coil rows. With several plants in North America and a Taiwan facility, Taylor serves diverse flat-rolled steel markets ranging from automotive, aircraft and appliances to construction and manufacturing. Its processed steel is used in automotive hoods and doors, engine cradles and frames, refrigerators and freezers, office equipment, tubular products and many others.

Marking By Design

Tied to Taylor's its Reel-to-Reel inspection program, the new Matthews Marking Products International R44 8000 Series, rack mount, ink-jet system, was purposely designed for in-line marking at up to five different locations across the steel strip. Typical line speeds range from 50 to 200 feet per minute, although the 8000 is capable of handling speeds up to 780 fpm. An encoder wheel tracks the speed of the steel strip as it passes through the line ensuring consistent print quality at variable line speeds.

Identifying its steel coil output is not a new feature of Taylor's operations. However, until Taylor Coil acquired the new Matthews system, they had not been able to achieve the desired clarity it now can with current line speeds.

Five Printheads

What Matthews is supplying with its new 5-printhead marking system is a staggered set of printed rows of information on the steel strip. The printed data contains 7-codes indicating AMS, Aerospace Material Specification, grade of the

steel. In addition, this marking displays the steel producer and supplier, lot number, time of production, and related information. This appears in two lines each 1-1 1/2" high in lengths up to 24". All of this is specified in Taylor's customer contracts.

"We have had much success with this Matthews 8000 Series system," says Pete Adamski, general sales manager of Taylor Coil. "It allows us to help our customers comply with contract directives in supplying OEMs as well as to meet government guidelines to identify parts."



Matthews Marking Products considers its recently launched 8000 series printhead its most reliable system thus far, achieving more uniform, high quality marks at faster speeds for particular identification assignments and for flexible and simple operation. All 8000 series printheads are enclosed in a slim-line housing that permits easy installation at a higher industrial protection rating. It is recommended for both porous and non-porous substrates and includes metals and galvanized steel, plastics, packaging, wood, building materials with dye or pigmented ink formulations. The device has dynamic message storage memory of up to 400 characters per line of text and as many as 200 messages, the company states.

Sources

Taylor Coil Processing – Pete Adamski – telephone 330-824-8600

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