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Quick Die Change Systems

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Retrofit and Turnkey Systems for Small Width Coil Processing and Handling: Putting the Pieces Together

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National Sales & Marketing Manager

Two Leading Companies Join Forces

Coilmate/Dickerman is a product line comprised of two companies purchased by Formtek Maine to further expand their offerings in the small, light-duty coil handling equipment arena. The Dickerman product line was acquired by Formtek Maine during the 1970's to enter the hitch and air feed market segment. Servo feeds had just entered the marketplace and lagged behind these two methods in popularity. During the 1980's, however, servo feed technology and capabilities improved, and these feeds began to dominate the market. However prices for servo feeds, ranging from \$20,000.00 to \$50,000.00, strained customers' budgets. Dickerman introduced a servo roll feed with identical capabilities for under \$10,000 in the early 1990's to revolutionize the market.

Formtek purchased the Coilmate product line in 1998 to enter the pallet decoiler and rewind market segments. In 1999, Coilmate moved from Connecticut to its current state-of-the-art facility in Maine to pursue cost-effective marketing and manufacturing strategies, completing the Coilmate/Dickerman partnership. Coilmate/Dickerman offers a vast array of coil handling equipment for items ranging up to 24" wide and .125" thick.

Our engineering department and R&D program keep Coilmate/Dickerman products on the cutting edge of industry technology.

Coilmate/Dickerman recently held a Kaizen event to streamline the organization and efficiency of its manufacturing process for all pallet decoiler products. We improved our process, reduced production costs and now offer even better deliveries — quickly and effi-

ciently processing customer requests for single and multiple units and supply quality products.

SERVO FEEDS

Coilmate/Dickerman offers a complete line of servo roll feeds from 4" width capacity to 24" width capacity and thickness capacity from .002" to .187".



The **ServoMatic LT** small 4" width version is designed with a mechanical roll lift feature for pilot registration. This allows for higher production rates with pilot release capability as the press is mechanically actuating the roll lift feature and it is not dependent on air volume to lift the rolls.



Most applications for this feed are very short feed lengths with high speed requirements such as processing electrical connectors and fasteners.

ServoMatic IV 6" and 12" models utilize a pneumatic roll lift design for pilot registration. These units are designed with full width feed rolls, edge guide assemblies, entry cascade rolls, and an operator friendly control console.



The **ServoMax SE** 6" through 24" models also utilize a pneumatic roll lift design for pilot registration. These units are designed for thicker material applications an width matte chrome rolls, edge guide assemblies, entry cascade rolls and operator friendly control consoles.

and easily transforms into a machine that processes traverse wound material from a vertical core mode of operation by simply lifting the table top out of the way.



Repeatable Accuracy, High Performance

Accuracy remains paramount for feeding material. Customers often ask, "What kind of part length accuracy can your feed provide?" Variables such as roll pressure, material surface conditions and design of the tooling make it impossible to guarantee accuracy. But quality manufacturers *can* guarantee roll position accuracy of the servo feed. This ensures production quality and accurate repetition of movement each time the feed advances. Operators can easily run a scribe test for roll position accuracy by marking the edge of a roll along with the machine's side plate and entering the proper feed length for one revolution. To calculate the proper length, just multiply the feed roll diameter by 3.1416 to determine the circumference and allow the scribed lines to match up. Operators then enter this feed length into the control and set a batch count for several feed lengths. When the machine stops feeding, operators check the scribed lines to ensure they match up. If this process fails, operators have a defective feed unit that will never produce accurate parts for the end user. Operators can transfer servo roll position into part length accuracy with proper training. Coilmate/Dickerman includes "in-motion" refinement, a control feature on all servo roll feed models that converts roll position accuracy into part length accuracy by allowing operators to add or subtract .001" to the feed length. This user friendly control feature helps operators compensate for variables which would normally impact part length accuracy and production quality.

All of the Coilmate/Dickerman servo feeds have different features included in their control platforms. For a complete listing of models along with their inherent features please visit us on the web at www.coilmate.com.

PALLET DECOILER

Coilmate/Dickerman offers the Dualmate, a combination product that helps customers process material in the conventional pallet decoiler mode of operation where coils are stacked one on top of another in a horizontal plane for material payout. As an added benefit, the Dualmate quickly

Coilmate/Dickerman now offers a line of pallet decoilers to run at line speeds of up to 300 fpm to meet increased productivity demands.

The HS model uses a DC regenerative drive control, along with a dancer arm and analog proximity switch to smoothly match line speed. This system decelerates and accelerates at the same rate, whether the pallet is full or almost empty. With as little as 4.5 seconds of ramp up time and a 5000 lb. load, you can reach 300fpm and stay ahead of the productivity curve.

These decoilers also come equipped with fail safe brakes, fixed center arbors and accumulators to foster safe, hassle-free performance.



***Model HS5048
High Speed
Decoiler***

REWIND EQUIPMENT

No one offers more rewind solutions than Coilmate/Dickerman. We have designed and manufactured cost effective, reliable models for single and multiple head, single pancake and traverse type. Advanced electronic controls ensure distortion-free rewinding of materials ranging from paper to complex, intricate parts.

Rewind equipment requires speed and tension for optimum



performance. Utilizing our electro-magnetic design expertise, we offer advanced electronic controls to maintain these elements. Our tension controlled units adjust to meet the requirements of material type and application speed. This technology prevents the slacking of material typically associated with production impediments. We also offer multi-head units that let operators easily change spools while maximizing production rates.

High quality construction with steel fabrication provides dependable, maintenance-free equipment and a full, two-year warranty outlasting all competitors.

COST EFFECTIVE SYSTEM SOLUTIONS

Coilmate/Dickerman manufactures cost-effective, compact coil systems. The one pictured below was designed to fit within 13' of floor space, with no pilot registration required. Coilmate/Dickerman utilized a conventional SM-5 pull-through straightener and supplied a 6,000lb motorized uncoiler with a proximity loop control, as well as a SMXSE18 servo roll feed. This met customer application requirements and budget constraints.



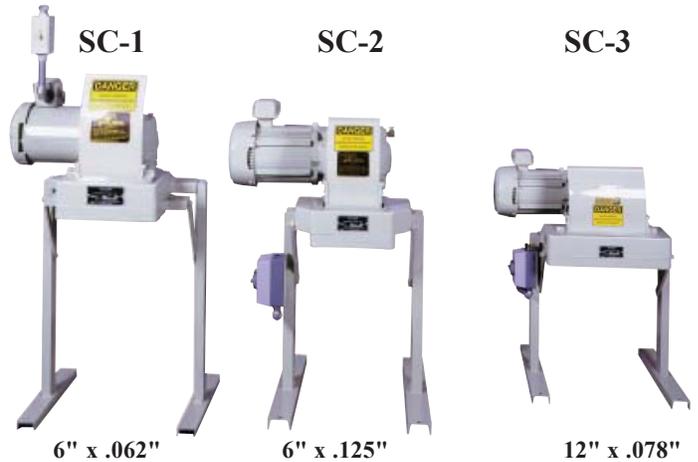
Coilmate/Dickerman also offers conventional coil handling systems that allow operators to process critical finish material and utilize progressive tooling for a job shop environment where contracts change constantly.



SCRAP CHOPPERS

Along with coil strip processing, customers frequently process a by-product from their stamping operations known as a scrap skeleton. Because Coilmate/Dickerman recognizes that operators must process scrap material into small pieces to achieve the highest possible value, we offer a complete line of scrap choppers designed for the task. Scrap choppers range from 6" to 12" width capacity and process material as thick as .125". Orbital motors cut the scrap at 190 SPM and come equipped with a guide chute for easy thread-

ing and operation. They also have adjustable legs to further assist with scrap handling operations.



Coilmate/Dickerman has set industry standards for press feed equipment with over 50 years of experience and innovation. We produce 98% of our products in-house and maintain full control of our shop through-put. We designed our 85,000 square-foot facility to optimize development of raw material in the fabrication department to finished product in the assembly department. In between, product moves through a state-of-the-art machine shop with three horizontal turning centers (two with automatic bars feed capability, one with dual turret and turning capacity of 19" diameter), 157" between centers, 6600lbs. loading capacity, multiple CNC machining centers and a CNC Bridge Mill with travel capacity of 69"X x 126"Y x53"Z . All of these components provide critical support to our operation. The facility also has roll hardening and grinding capabilities. We execute programming for the machine shop with Surf cam software and staff our manufacturing department with 71 highly trained employees. Our seven-person engineering staff quickly processes customer orders and provides custom coil processing application solutions. Ten employees in the sales department rapidly respond to customer applications for the fastest quote turnaround in the industry. Our service department responds promptly to customer needs, with locations in Chicago, Dallas, Clinton, ME and Piqua, OH. Customers may speak with a factory technician twenty-four hours a day, seven days a week.



Coilmate Dickerman's 80,000 sq. ft. facility in Clinton, ME

Coilmate/Dickerman offers cost-effective solutions for all of your press feed applications. If only the best will do, call us today.

Coilmate/Dickerman

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