

**40** YEARS  
OF QUALITY

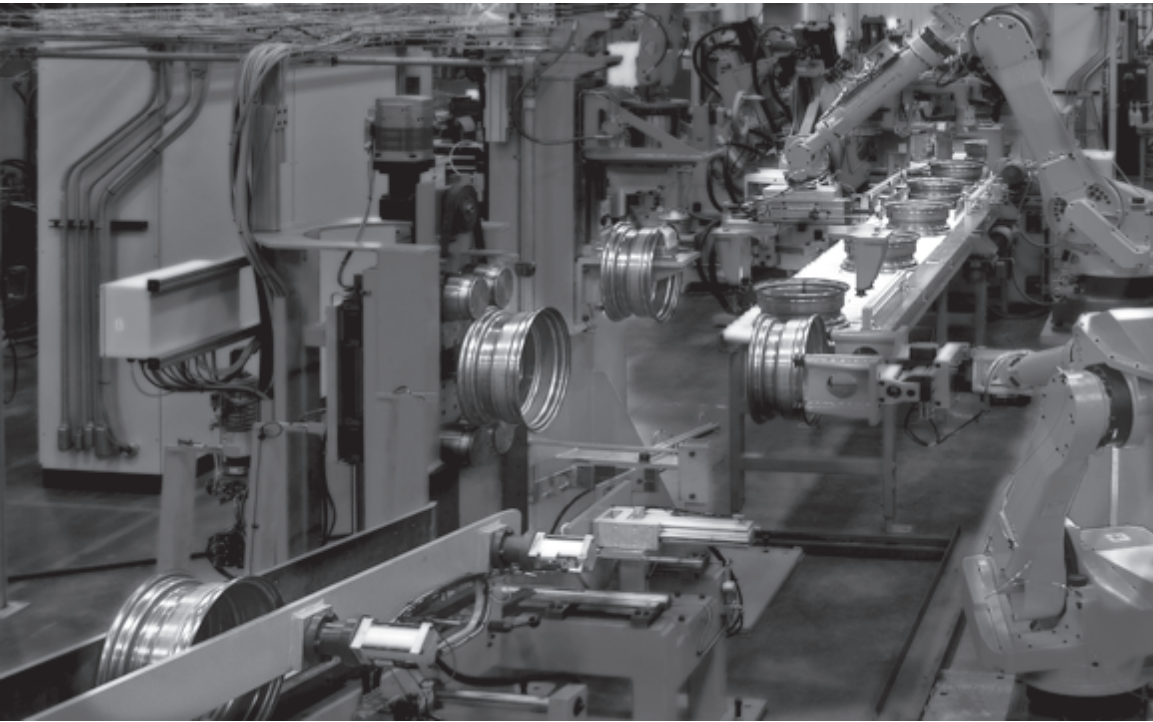
COMPLETE WHEEL  
PRODUCTION LINES

**REPKON**

*..setting flowforming 'free'.*



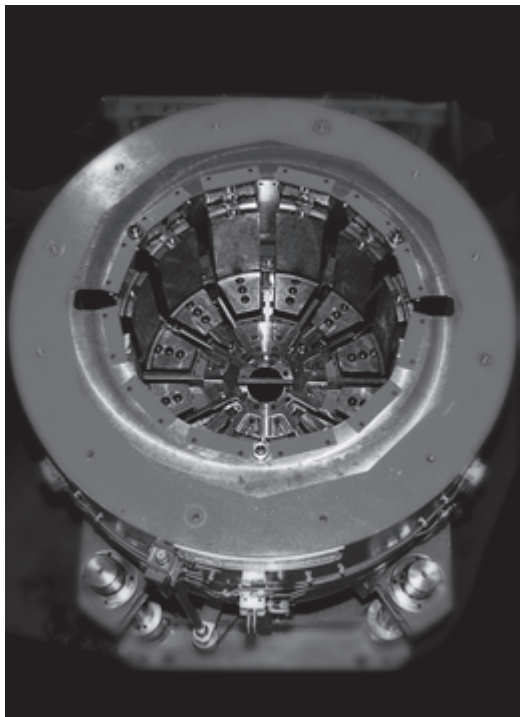
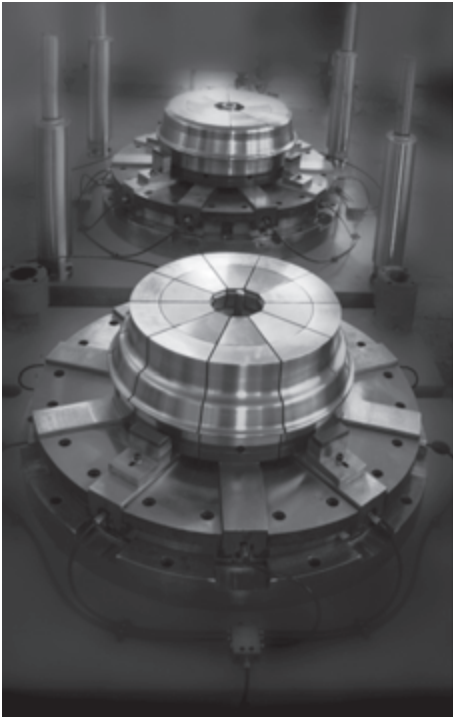
Most wheels consist of a rim (on which the tire mounts), and a disc that is connected to the rim (primarily through welding) and provides the mounting interface to the vehicle. Common types of wheels include: drop center wheels for passenger car and light truck applications, full face and bead seat disk attachments, 5 & 15 degree flat base and drop center wheels for heavy truck applications, forged aluminum wheels, cast aluminum wheels, ATV wheels and agricultural & off-road vehicle wheels.



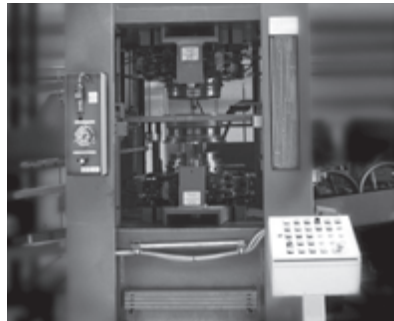
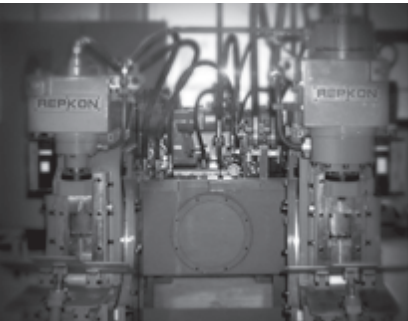
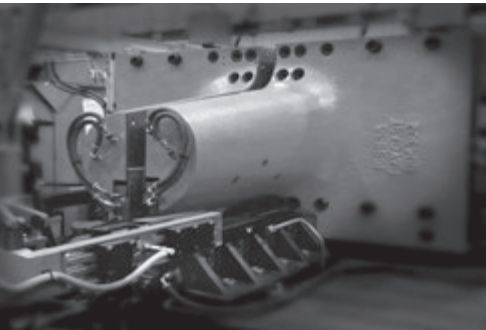
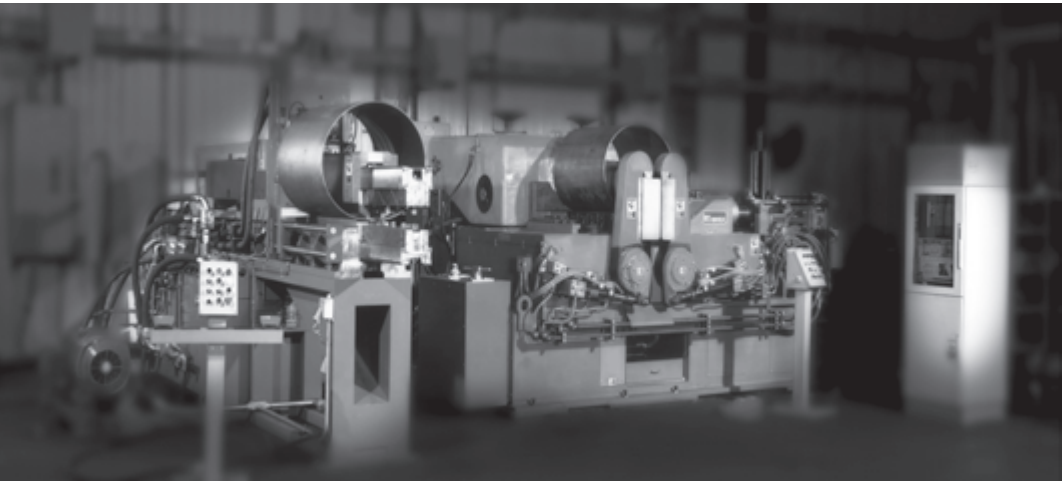
**REPKON** supplies manual to fully automated, turnkey production lines as well as single machines for the production of all wheel types. From rim preparation, profiling, disc production and assembly to quality control, testing and painting; REPKON has been providing superior equipment and top quality tooling to the wheel industry for over three decades. Furthermore, we are able to offer **wheel production technology and process know-how** to improve product quality and production efficiency of our customers.

"Wheel Uniformity" characteristics are used to judge the quality of the individual components and final products.

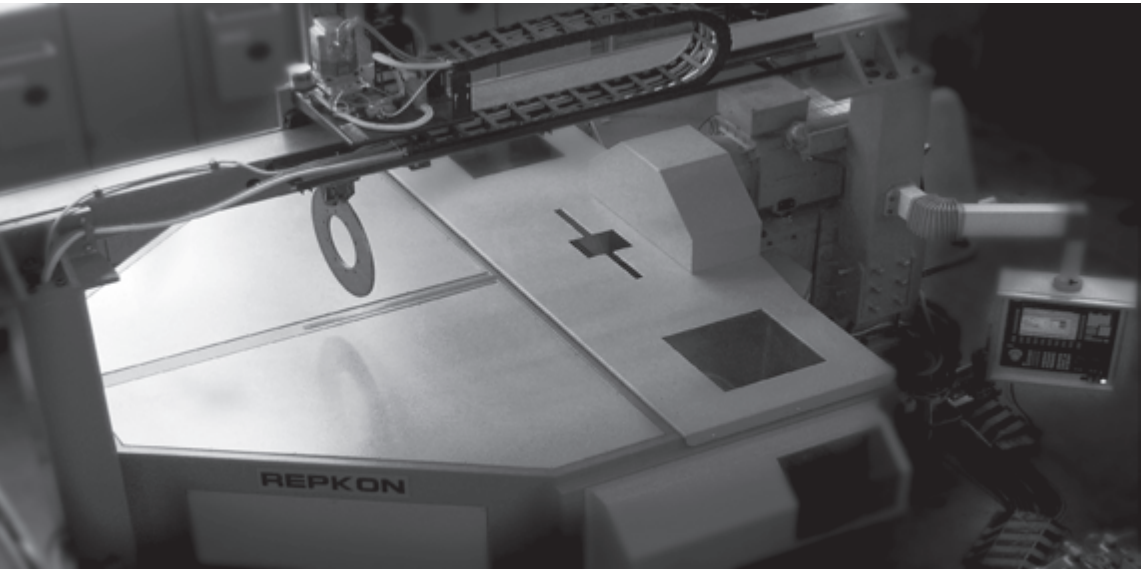
Peak-to-Peak and 1<sup>st</sup> Harmonic run-out uniformity characteristics are used to judge the effectiveness of the various processes involved. While proper machine and tooling designs are essential to success, process knowledge and disciplined maintenance of the equipment are equally important.



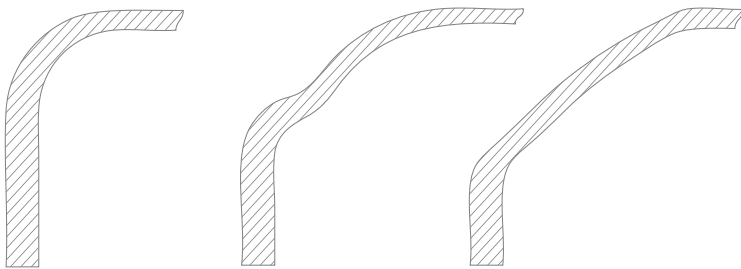
For fabricated wheel projects, we will assist you in selecting an Uncoil Cut-to-Length System to assure proper blank preparation. Our coiling machines produce a properly formed band ready for our AC/DC Butt Welding System or our stand-alone Welding Machines. **The welded band is converted to a finished rim by our Profiling System with final rim sizing done in our shrinking/expanding machines to achieve desired rim uniformity.**



Embossed/flattened, pierced/punched and planished/deburred valve holes are placed in the rims by our Rim Valve Hole System. **Final assembly with a flowformed or stamped disc is accomplished in our Wheel Assembly and Welding System.**



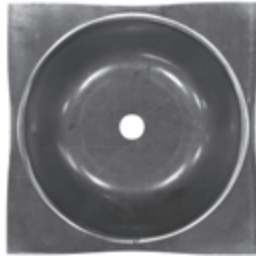
**RDM 75-240 Truck Wheel Disc Production Machine**



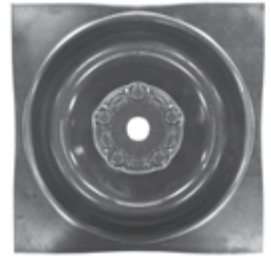
**Truck Wheel Disc Profiles**



Op.1



Op.2



Op.3



Op.4



Op.5

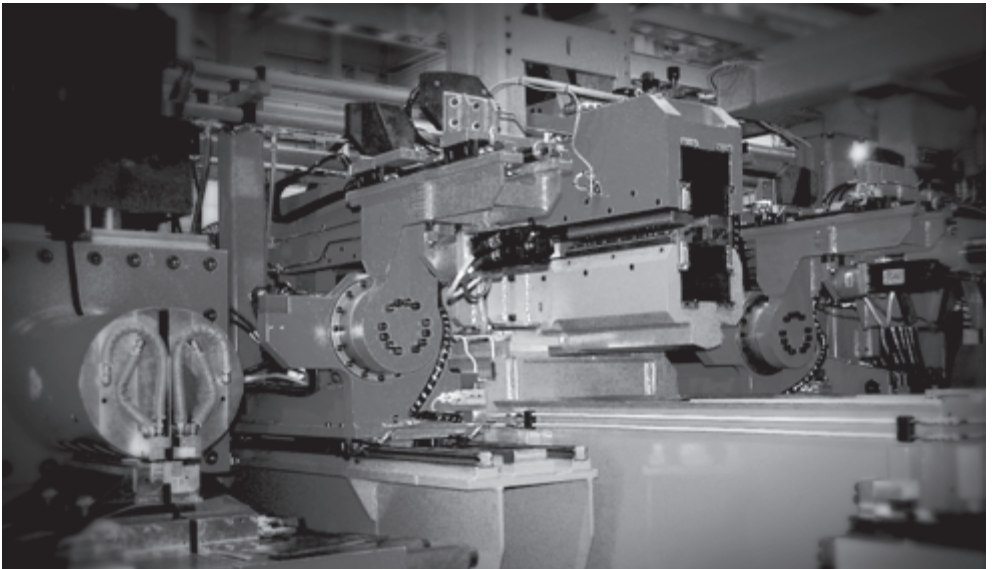


Op.6&7

Repkon Passenger Car Wheel Disc Manufacturing Line

## Wheel & Rim Machines

Since being founded in 1978, REPKON has continued to grow as a recognized, worldwide supplier to design and build innovative, cost effective, highly productive and durable wheel manufacturing systems. We have earned that reputation by building systems to last. Over the years we have designed and built machinery for every step of the wheel manufacturing process from the initial coil roll of steel to the final assembled wheel.

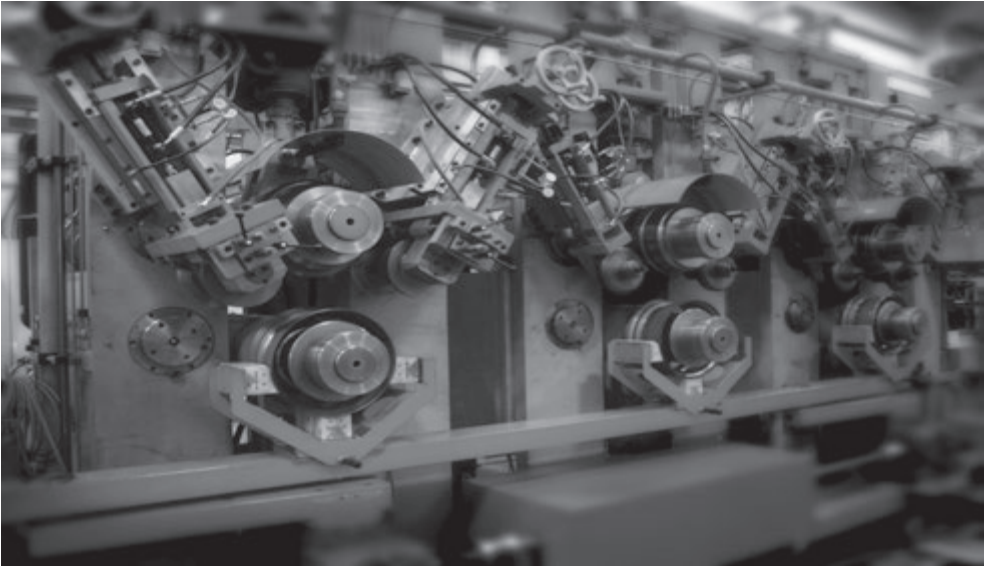


Our solutions for the wheel industry are provided as both stand alone individual units to solve a particular process problem within an existing line, as well as complete new line systems for high speed wheel manufacturing.

Some of our most popular stand-alone equipment include, coilers, welders (AC and DC), trimmers, open-end rollformers, expanding mandrels, shrinkers, valve hole presses, assembly presses and welders as well as flowformers.



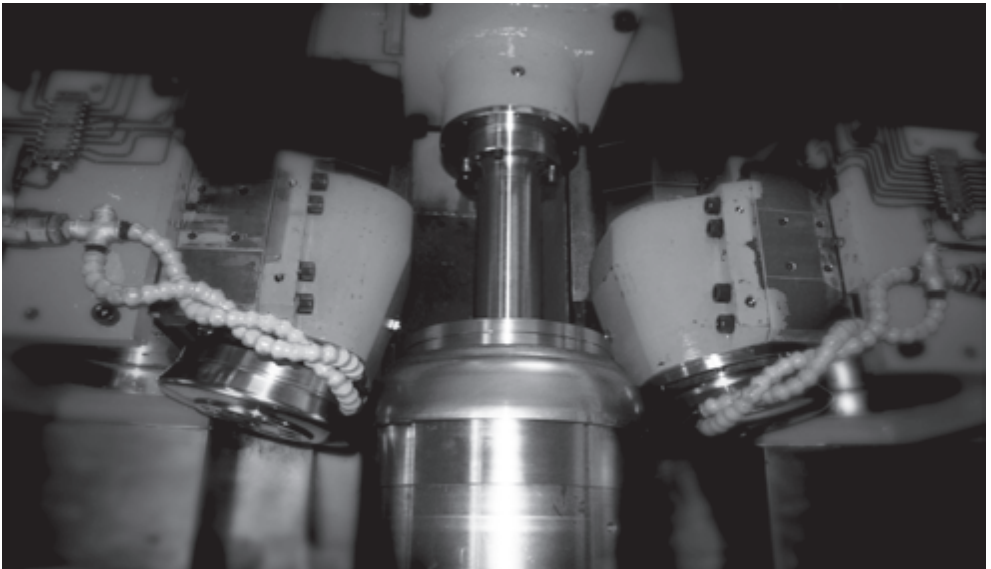
Our complete systems are supplied with centralized control units that allow an operator to run the line from a single control panel if required. Common systems include Cut-to-Length, Band Preparation, Profiling, Valve Hole, Assembly/Welding, Production Tooling, Part Automation and Quick Tool Change Systems.



If you do not see a machine that can process your product on the below list, please contact us to discuss your specific requirement.

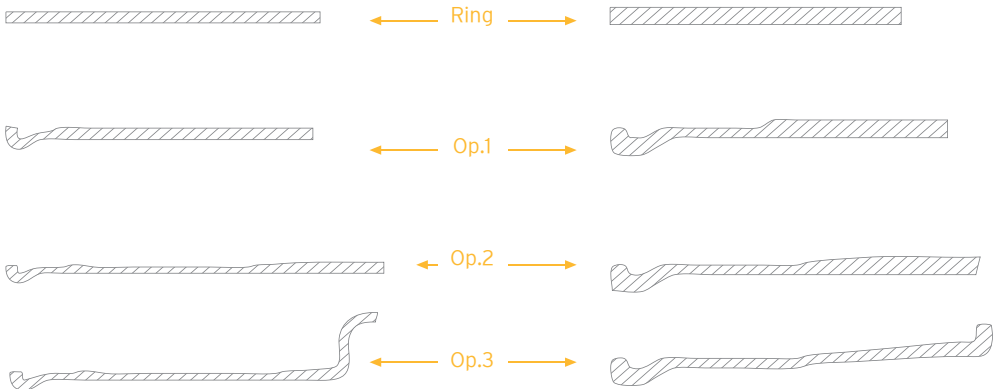
Rim Production Equipment and Systems	Disc Production Equipment and Systems	Assembly Production Equipment and Systems
Uncoil Cut-to-Length System with Edge Conditioning	Uncoil Cut-to-Length System	Assembly Press
Coiling and End Flattening	Steel Truck Disc Flowformer	Wheel Assembly Welding System
AC/DC Butt Welding System	Disc Forming Presses	Wheel Run-out Reducing System
Trimming/Planishing/Edge Nip/Re-rounding	Ventilation Hole Presses	Wheel Brushing Machine
Rotary Weld Flash Trimmer	Disc Machining	Uniformity Measuring Machine
Profiling System	Disk Bolt Holes Machining	
Steel Rim Flowformer		
Forged/Cast Aluminum Rim Flowformer		
Rim Leak Testing		
Rim Valve Hole System		

REPKON further complements its broad product range with innovative forming processes, thus enabling its customers to manufacture excellent (even weight-reduced) products with enhanced flexibility. Such samples include the new generation flowforming machines that can produce both discs and up to 25" flat base rims, making even tubeless 'single-piece' rings possible, instead of the conventional welded-section rims; vertical flowformers with two, three or four rollers for aluminum wheels that are forged or cast (heated mandrel option); as well as a new range of single clamp profiling equipment we call 'flowrollers' for lower volume steel rims.



Standart Flanged

Short Flanged



Cross Section of Flowformed Truck Wheel Rim

## **About Repkon**

An innovative metalforming technology company founded in 1978 with strong engineering/design capabilities attributable to indigenous knowhow in flowforming, shear forming, hot spinning, wheel manufacturing machines, and hydraulic press technologies. Repkon has been a diligent supplier of custom-tailored solutions in industries such as defense, aerospace, oil and gas, pipe, pressurized gas, and automotive.



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**REPKON MACHINE & TOOL INDUSTRY AND TRADE INC.**

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**PLANT**

BALIBEY MAHALLESİ, FABRİKA SOKAK, NO:1 34980 SİLE, İSTANBUL / TURKEY

PHONE: +90 216 739 59 06 (pbx) FAX: +90 216 739 59 14 E-MAIL: repkon@repkon.com.tr

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**[www.repkon.com.tr](http://www.repkon.com.tr)**

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