

## Overview of REPKON's Flowforming Technology

Although, our principle philosophy is to concentrate more on engineering and design as well as superior machine assembly capabilities, we make the critical components in-house to ensure delivery of premium flowforming equipment, globally.

Our corporate motto, since day one, has been "innovation" versus replicating the existing, which has been the driving force behind our revolutionary approach to this, until now, dormant technology. An elite team of professionals experienced in this extremely specialized discipline and their "outside-the-box" approach has been the source of innovation in this undertaking. Our unique design features such as fixed roller holder and moveable headstock(s) as well as our patented "**free**" **flowforming** method enables us to achieve much higher speeds, while generating minimum heat, allowing for us to offer such high-precision machines to even the cost-conscious end-users in lower-margin/higher volume industries such as automotive.

REPKON is en route to revolutionizing the application domains of flowforming through its patented "**free**" **flowforming** approach and follow on ground-breaking creations such as **multi rollers** and **core mandrel**. This, not only, will widen the number of industries that can utilize this material and energy efficient, practical and convenient on top of which is a high-precision production scheme, it will at the same time pave the way for new and innovative alternative manufacturing possibilities for various parts that currently have to be compromised due to the limitations of today's conventional production methods.



## Repkon Activities



Defence Industry



Aviation & Aerospace Industry



Automotive Industry



Oil & Gas Industry



Mining Industry



REPKON MACHINE & TOOL INDUSTRY AND TRADE INC.

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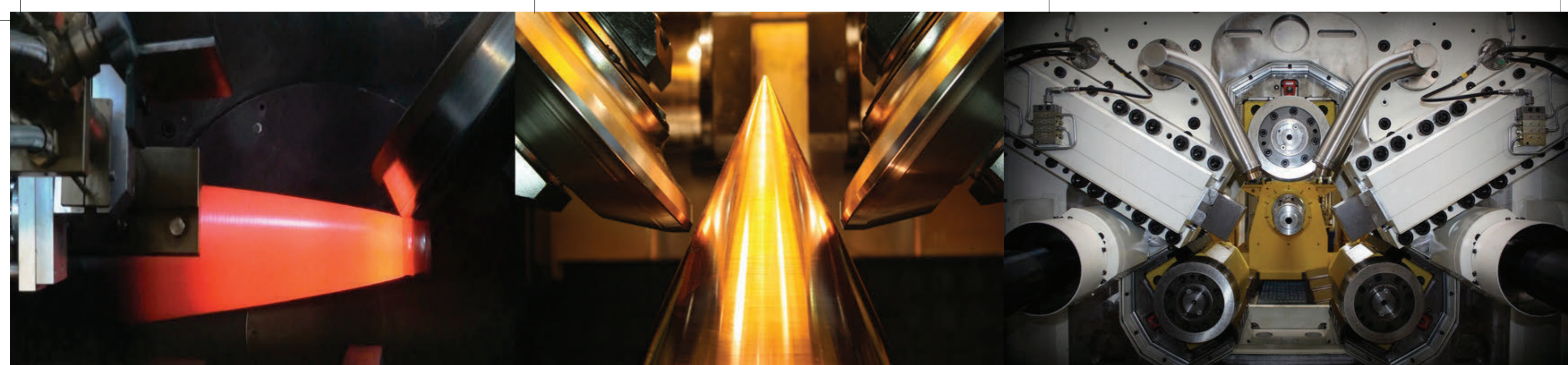
40 YEARS OF QUALITY



A NEW ERA FOR  
PRECISION METAL FORMING

REPKON

..setting flowforming 'free'.



Built upon over three decades of metal forming experience, REPKON is proud to offer high precision manufacturing alternatives through advanced in-house capabilities in strategic technologies such as **flowforming**, **shear forming** and **hot-spinning**.

With a strong background in various kinds of sophisticated hydraulic presses, as well as their relevant tooling, REPKON has built countless top-notch equipment for a wide-ranging client base across the globe.

From special press-forming to flowforming, not to mention the various combinations of all indigenous technologies at REPKON, the strong and capable technical team has consistently challenged conventional methods and was able to produce ingenious superior results for its customers.

An emphasis on research and development, proprietary design and manufacturing know-how, and comprehensive technical expertise in various chipless metal forming techniques, as well as a continuous quest for innovative and cost-effective production processes and a passion for developing unique combinations of different metal forming solutions mold the foundation of REPKON's success.

REPKON has been a diligent supplier of **custom-tailored solutions** that were explicitly based on customer requirements in a wide range of industries such as: defense, aerospace, oil & gas, pipe/tube, mining, pressurized gas bottles, automotive and home appliances, which lead to an outstanding track record of a capability to solve virtually any problem - the chipless way!

REPKON has a long-standing policy of focusing on customer needs, after-sales service and persistent quality. Each staff member is tasked daily with improving individual and collective performance in meeting these goals. ISO 9001 certification and a genuinely embraced CE marking procedure are mere signs of REPKON's dedication to quality.

#### **Core competencies of REPKON include:**

**Flowforming machines** for the production of medium and long-range missile bodies, the ammunition bodies, motor and cartridge cases, as well as the production for the aerospace and aviation industries

**Shear Forming machines** for the production of the precise copper cones used in the anti-tank rocket heads and similar parts

**Hot Spinning machines** for the production of warheads, as well as the production of high-pressure cylinders

**Ex-proof hydraulic presses** for filling of explosive substances with following features; fully automatic with dosing, suitable for operation behind the shielded area

**Hot forging presses and ironing presses** for the production of warheads with hot process

**Standard hydraulic presses** for various deep drawing, forming, calibration, cutting and punching operations

**Heating table presses** for pressing and curing of composite or equivalent materials

**Complete turnkey production lines** for the production of warheads using hot and cold methods