

RNM 41 HOT SPINNING MACHINE SPECIFICATIONS:

Work Piece Dimensions		
Outside diameter maximum	mm	410
Outside diameter minimum	mm	220
Length maximum	mm	2000
Length minimum	mm	600
Thickness maximum	mm	12
Thickness minimum	mm	5
Main Drive		
Spindle drive motor Rating	kW	135
Adjustable Spindle Drive Rotation Speed @ Performance	rpm	10 - 600
CNC axis		
Number of CNC Axis		4
Servo Drive Motor Power Rating	kW	2x20
Forces		
Longitudinal Thrust	kN	170
Torque of Swivel Slide	Nm	45.000
Radial Clamping Force	kN	550
Feed Rates & Motions		
Longitudinal Slide Stroke	mm	500
Slide Swivel Angle Range	°	100
Longitudinal Slide Speed	mm/sec	270
Swiveling Slide Angular Velocity	°/sec	60
Stroke of Ejector	mm	2000
Stroke of Pusher	mm	4800
Hydraulic Unit		
Main Pump Drive Motor Rating	kW	2x45
Hydraulic Pressure	bar	180
Hydraulic Tank Capacity	l	800
Auxiliary Pump Drive	kW	5,5
Cooling/Filtering/Circulating Pump Drive	kW	4
Induction Heating System		
Heating Power Capacity	kW	800
Number of Induction Coils		3
Mains Supply		
Electrical Connection for Power Components	V	400V / 60Hz/ 3ph
Control Voltage for Electrical Components	V	24DC
Approximate Connected Electric Load About	kW	320
Hydraulic Main Pump Delivery	l/min	260
Hydraulic Secondary Pump Delivery	l/min	140
Hydraulic Oil Tank Fill About	liter	800
Gas Supply		
Scale Burning Torch		Oxy Acetylene
Re-Heating Torches		Natural Gas
Overall dimensions		
Length	mm	12.500
Depth	mm	3.000
Height from Floor Level	mm	4.200

REP KON MACHINE & TOOL INDUSTRY AND TRADE LTD.

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30 YEARS
OF QUALITY

THE ULTIMATE
HOT SPINNING MACHINE
RNM - SERIES

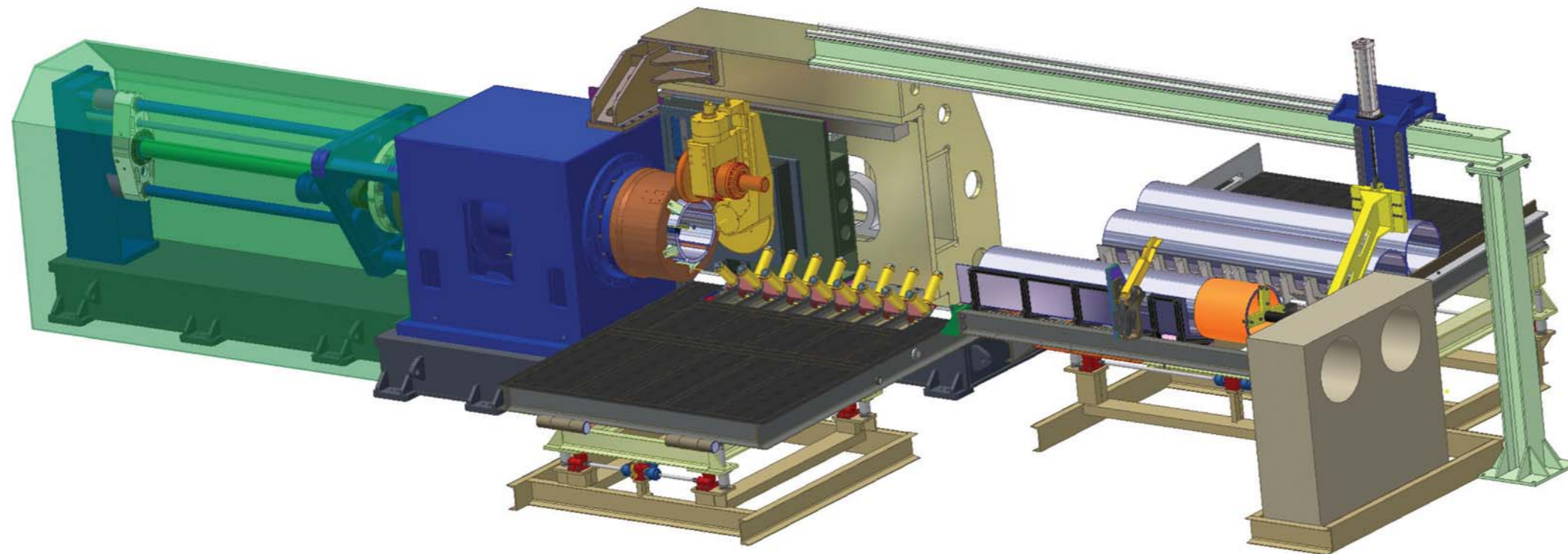
REP KON

..setting flow forming 'free'.

THE BEST HOT SPINNING MACHINES THE INDUSTRY HAS TO OFFER:

REPKON is proud to introduce the ultimate hot spinning machine. Designed and manufactured by REPKON, the new generation RNM 41 Hot Spinning Machine takes advantage of a full range of technical enhancements to optimize operation efficiency in short cycle times, ensuring impeccable

process quality. The CNC controlled RNM 41 Hot Spinning Machine is specially designed for heavy duty operation with exceptionally robust structure and optimized throughput, using state-of-the-art technology and high performance components.



OPERATIONS PERFORMED:

Fully automated, RNM 41 performs both necking-in operations and bottom closing operations with proper tooling.



MAIN FEATURES OF RNM 41 NECKING-IN MACHINE:

Some of the outstanding features of RNM 41 include:

- Fully integrated induction heating furnace with automatic load and unload
- Integral loading and unloading tables for easy and fast load and unload.
- Machine center line aligned with induction heater coil transfer line to optimize auxiliary times
- Simple and very efficient loading and transfer
- Servo CNC controlled transfer and loading system
- Energy fail-free high force work-piece clamping system with normally closed gas cylinders for work safety
- Non-rotating hydraulic work piece unclamping system to optimize forming & auxiliary times
- Robust machine bed with base plate enabling direct factory hall installation
- Servo CNC controlled ejector allowing direct length positioning and ejecting
- Built in pressure sensor in the ejector system ensuring efficient machine operation
- Compressed air burst scale cleaning integrated with ejector movement
- Optimized change over times by minimized mechanical replacement of guide tube, ejector plate and clamp shoes without adjustment & adaptor piece requirements
- Robust heavy duty clamp jaws
- Vertical roller slide ruling out scale precipitation on the machine to extend life span
- Vertical roller slide ensuring perfect geometry and rigidity for flawless surface forming
- Fabricated steel roller slide support frame providing precise rigidity to achieve smooth work contours at the edges of forming area
- Capability to manufacture longer valve necks due to vertical slide roller
- Scale collection tray for convenient maintenance
- Excellent maintenance accessibility around chuck and roller slide area for preventive and corrective maintenance
- High precision CNC controlled servo valve control of slide movements resulting in perfect contour shapes in forming operation.
- Preloaded guide ways for longitudinal slide with roller shoes
- Revolving work piece unload transfer ensuring minimized unload auxiliary times
- Specially manufactured parts and equipment reducing the time required to swap cylinders with different diameter and length.
- Remote diagnostic maintenance service by REPKON to end user via tele-service.