

► **NOVIN FANAVARAN GROUP**
TIRE & RUBBER MACHINERY



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NOVIN FANAVARAN NEDA GROUP

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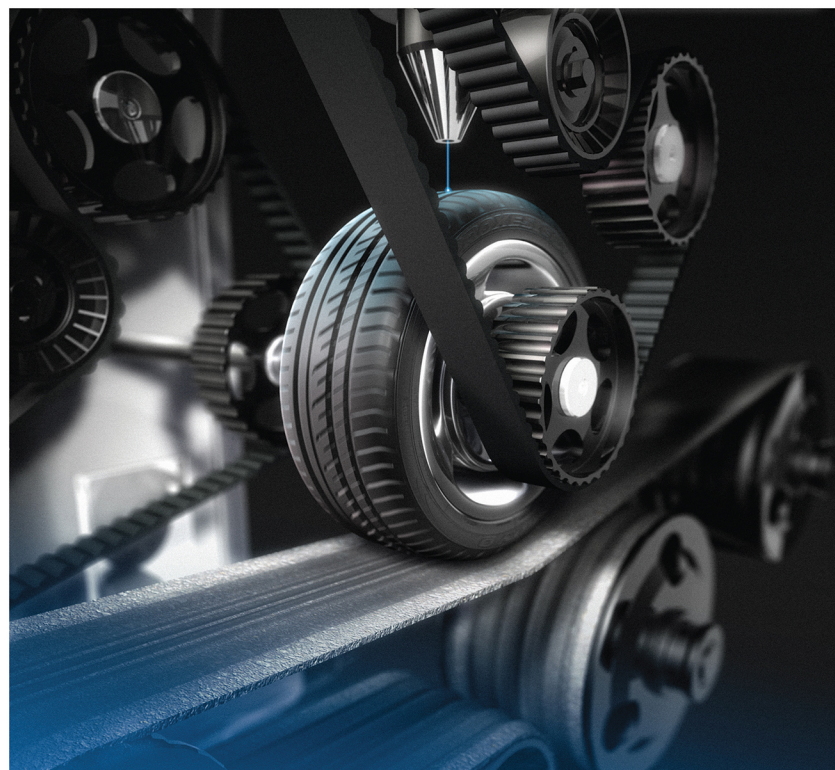
- Consult
- Manufacture
- Supply

Introduction

► About Novin Fanavaran Group

With over 50 years of experience in tire industry, Iran has significant capacity in the Middle East. Due to lack of sufficient investment in recent years and according to the need for updating factories and constructing the new factories, there is Significant potential in related industries such as machine manufacturing for creating jobs and entrepreneurship.

According to the Ministry of Industry development programs for tire industry until 1404, we decided to apply our more than 17-years experiences of management and experts of this group to create organizations and more sufficient conditions to cooperate with foreign countries. We resolved to take advantage of today technical knowledge of the world in the field of manufacturing and equipping tire industry to make strides in development of the tire industry, especially in the field of machinery in our country.



► NOVIN FANAVARAN NEDA GROUP

► Novin Fanavaran Targets & Products

► Our Main Targets

We consider the following general approaches:

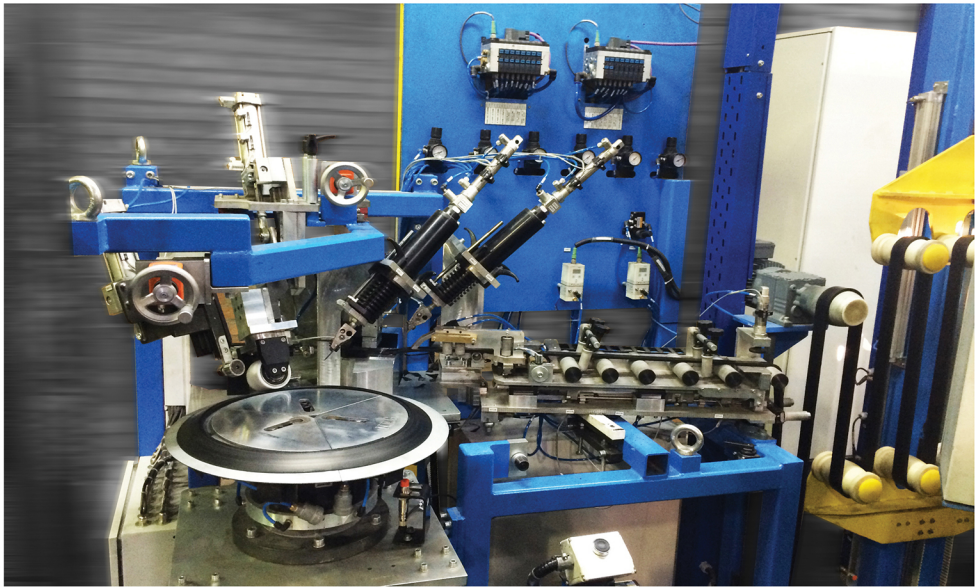
1. Entrepreneurship and Job Creation
2. Upbringing experts in the field of designing and manufacturing machineries of tire industry.
3. Increasing domestic production and localizing machineries of tire industry.
4. Optimizing and upgrading existing machinery in the factories according to the world standards and help to improve the quantity and quality of the final product at a reasonable cost.
5. Supplying standard spare parts to reduce interruption of production lines in tire manufacturing factories.

The results of the experience and efforts of our experts is manufacturing the most of machineries of the production lines in tire industry. These machineries are listed below:

► Mainly Products

- 1- Automatic green tire spraying machine PCR, TBR
- 2- Bead apexing line PCR, TBR
- 3- Automatic cutting and splicing textile machine
- 4- Automatic two stages tire building machine
- 5- Maxi slitter machine for cap ply
- 6- Mini slitter machine(JLB)
- 7- Pre assembling line for strip
- 8- Down stream line and winding system for rubber profile
- 9- Automatic tire & green tire handling system
- 10- Tire wrapping machine

► **BEAD APEX LINE**



► **EQUIPMENT USE**

It is used to join the extruded apex profile to bead for PCR tyres.

► **BRIEF SPECIFICATION**

90mm pin type cold feed extruder, three points shrinkage conveyor, EL width measuring system, spiral cooling unit.

MAIN TECHNICAL PARAMETERS	
Applicable bead range	13" - 16"
Bead section dimension	6mm-10mm
Productivity	1800/shift
Aplication bead	Semi-automatic
Apex height range	20mm-60mm
Apex thickness range	5mm-12mm
Bead section	square
Apex joining angle	75° - 90°
Eccentricity between bead and apex	≤ 1mm

► **AUTOMATIC GREEN TIRE SPRAYING MACHINE**



► **EQUIPMENT USE**

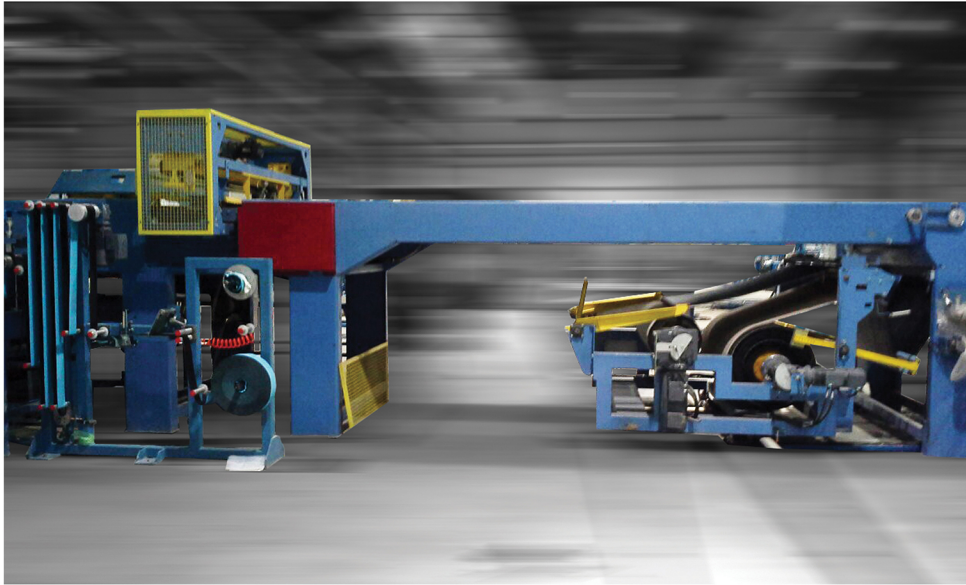
This machine was designed for painting inside and outside green tires.

► **BRIEF SPECIFICATION**

Load and unload automatic with two centering system, pre speed system, automatic positioned for spray guns, dryer in three zones, air less painting system.

MAIN TECHNICAL PARAMETERS	
Bead diameter	13" - 20"
Height (green tire)	130mm-350mm
Cycle time	7/5 sec
Paint material	Water based
Painting accuracy in bound	± 7mm
Max green tire weight	20 kg
External diameter	520mm-800mm
Productivity	480 tires per hour
Painting system	Air less (ice breaking)

► AUTOMATIC CUTTING AND SPLICING TEXTILE MACHINE



► EQUIPMENT USE

This machine was designed for cutting and splicing textile cutter for radial and bias tires.

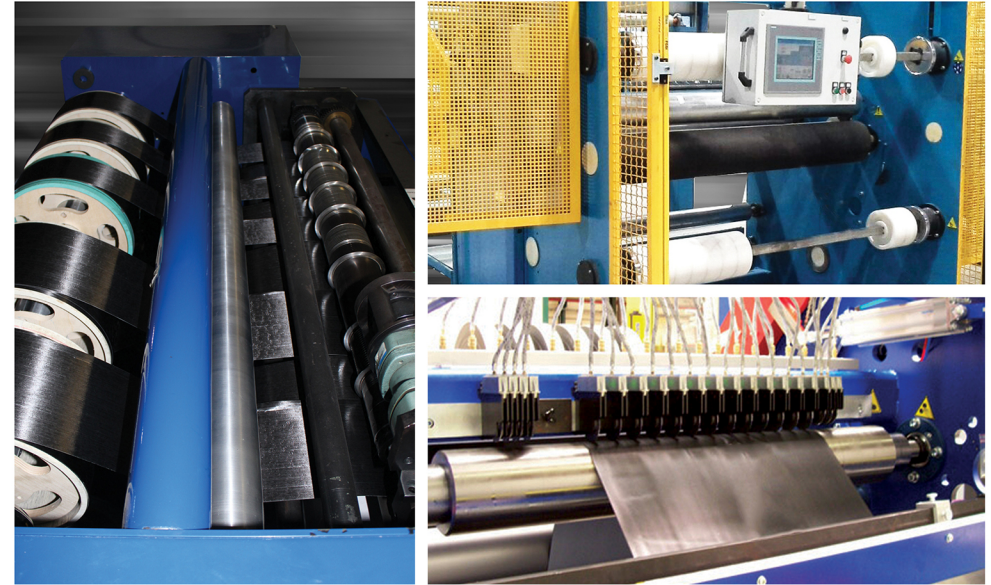
► BRIEF SPECIFICATION

Automatic Centering system for let of, edge trimming, shear cutting system, pre assembling system for gum strip, dual wind up system.

MAIN TECHNICAL PARAMETERS

Fabric thickness	1.0-3.0mm
Maximum liner width	1650mm
Maximum diameter in let-off	1100mm
cutting width tolerance	± 1mm
Width of insert strip	30mm-90mm
Productivity	15 cut/min for 600mm width
Cut bodyply width	320mm – 850 mm
Cutting angle	90±5mm
Type of knife	Rotary shear

► MAXI SLITTER



► EQUIPMENT USE

This machine was designed for longitudinal cutting fabric for cap ply.

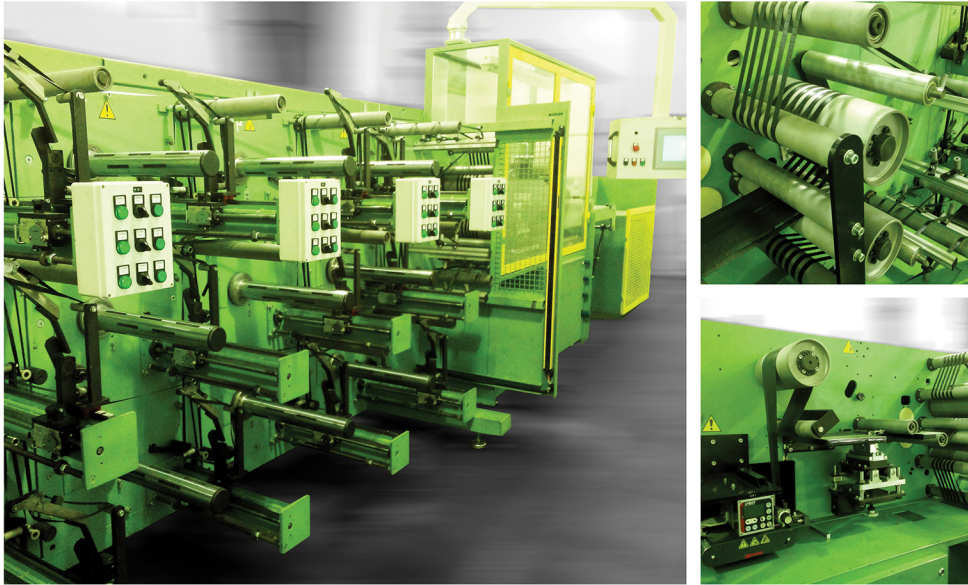
► BRIEF SPECIFICATION

Automatic Centering system for let of , crash cutting system, bladder shaft in wind up.

MAIN TECHNICAL PARAMETERS

Fabric thickness	1.0-3.0mm
Maximum liner width in let off	1650mm
Maximum diameter in let-off	1100mm
cutting width tolerance	± 0.5mm
Minimum Width of strip	30mm
Linear speed	60 m/min
Maximal wound diameter	500 mm
Centering accuracy in let off	± 5mm
Number of knife	18

► MINI SLITTER FOR CAP STRIP



► EQUIPMENT USE

It is used for longitudinal cutting and winding narrow cap strip for radial tyres.

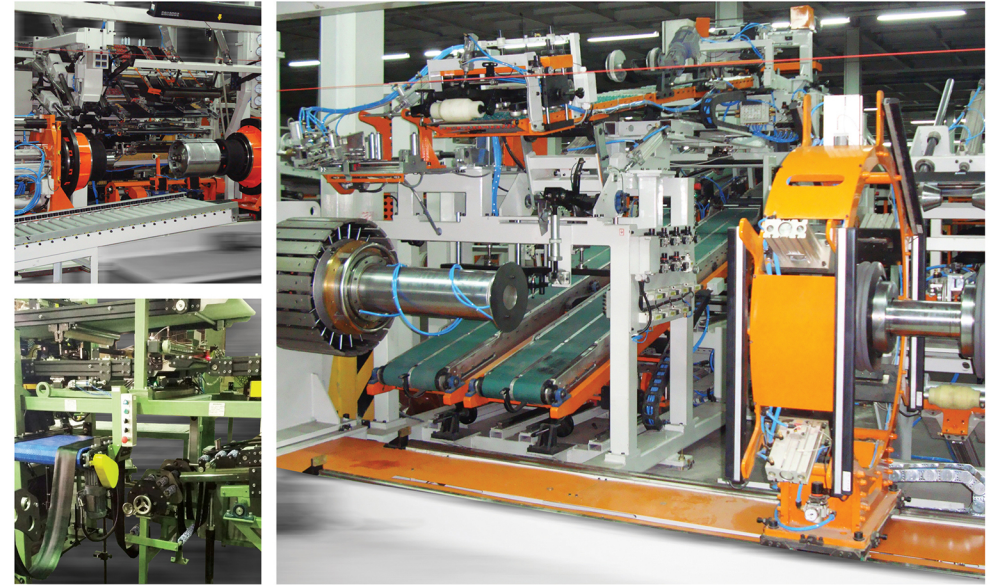
► BRIEF SPECIFICATION

It consists of dual stations let-off unit, BST edge centering system, multi-cutter longitudinal cutting unit and multi-station separate wind-up unit.

MAIN TECHNICAL PARAMETERS

Width of cord in wind-up	400mm
Maximum let-off material coil diameter	600mm
Width of cord in let-off	150mm
cutting width of cap strip	8mm-20mm
Cutting tolerance	0.5mm
Cutting system	Rotary disc
Maximum cutter number in cap strip	12 (stations)
Maximum wind-up diameter	350mm
Linear velocity	4-80m/min

► TIRE BUILDING MACHINE



► EQUIPMENT USE

This machine is designed for building green tires.

► BRIEF SPECIFICATION

Tire building machine with automatic measuring, cutting, assembling, ply, innerliner and belt.

MAIN TECHNICAL PARAMETERS

Bead dia	14" - 20"
Max OD of green tire	875mm
Max B & T drum width	400mm
B & T drum dia	495mm-860mm
Transfer ring dia	480mm-900mm
Max width of cap strip	10mm-20mm
Max tread width	350mm
Max width of innerliner	500mm-850mm
Max width of body ply	850mm

► TREAD, SIDEWALL & INNER LINER WINDING SYSTEM



► EQUIPMENT USE

It is used to winding profile with creel in extrusion line.

► BRIEF SPECIFICATION

preload, dancer for speed line control automatic cutting system
automatic changing station.

MAIN TECHNICAL PARAMETERS

Maximum speed line	30m/min
Maximum width of tread	350mm
Maximum width of sidewall	150mm
Maximum width of inner liner	700mm
dancing system	preload
Square bar	40mm*40mm
Cutting accuracy	± 0.5mm
Width tolerance after winding	± 2mm
Maximum diameter of creel	1.5m

► OUR CUSTOMERS



► OUR OTHER SERVICES

- Consultation for choosing machinery from good known suppliers
- Mechanical and electronic Inspection machinery in suppliers plant
- Upgrading and improving machinery in tire production lines
- Introducing technical consultants in the field of tire technology
- Troubleshooting of machines in tire production lines