

BOZDEMİR

Stranding Axis

www.bozdemir.co



**expert and
dynamic
team**

BOZDEMİR

BOZDEMİR

is an engineering firm specializing in cable and wire stranding technologies.

To this end, our company provides solutions for cable manufacturers with the know-how and experience it has gathered since 1999.

With its stranding lines and machineries, Bozdemir holds a place in machine-park of many cable manufacturers across the world and will continue to do so.

In addition to high quality of its stranding lines, Bozdemir also distinguishes itself with a customer-oriented quality policy, high level of safety systems used in its products, the solution maker role it assumes for manufacturing productivity, its operational reliability and its quick service operation.

As corporation; Bozdemir makes it its mission to improve its product technology and performance day by day, in adherence to principles of continuous improvement.

With its expert and dynamic team, Bozdemir endeavors to combine modern technology with most advanced production methods in order to provide for needs of its esteemed solution partners.



RIGID STRANDING LINE – BOST

BOST series Bozdemir Rigid Stranding Lines provide Ø560 mm and Ø630 mm reel tying for rigid cages in accord with DIN46397 standard according to client's needs.

With a strong casing structure, the rotor unit of the cages is produced as monoblock and subjected to stress relief annealing to provide long structural lifetime.

All pintles on the rigid stranding cages are motor driven.

All rigid stranding cages are motor and gearbox driven. Belt transmission is not used at any point.

Armoring and screening procedure can be provided with the optional piping system mounted on the line cage bodies.

Bozdemir rigid stranding lines allow stranding of conductors like aluminum, aluminum alloys, copper etc.

1, 2, 3 and 4 row sector stranding units in front of the cages, allow the products that has been twisted in the cages to be formed into straight sector, prespiralled sector and prespiralled sector cores for Milliken.

Rigid stranding lines allow production of up to Ø1000 mm² of stranding section in a single operation.



**Strong casing
structure
Produced as monoblock
and subjected to
stress relief.**



BOZDEMİR

Perfect synchronous operation

Gearbox driven powerful motors and the latest automation technology.



Sensible and stable wire tension

Laser controlled and adjustable during operation.

Cages	Rotation Speed (rpm) Cu (up to 600 kg)	Rotation Speed (rpm) Al (up to 240 kg)	Rotation Speed (rpm) Empty Reel	Wire Diameter (mm) Cu	Wire Diameter (mm) Al
BOST 6	220	310	340	Ø1,5 – Ø4,4	Ø1,75 – Ø5
BOST 12	180	275	320	Ø1,5 – Ø4,4	Ø1,75 – Ø5
BOST 18	160	245	285	Ø1,5 – Ø4,4	Ø1,75 – Ø5
BOST 24	130	205	230	Ø1,5 – Ø4,4	Ø1,75 – Ø5
BOST 30	120	165	195	Ø1,5 – Ø4,4	Ø1,75 – Ø5



DRUM TWISTER LINE – BODR

Rotating pay-off/take-up of Bozdemir drum twister lines are compatible with Ø1600-Ø2500 mm spools with fork type systems and Ø2000-Ø4000 mm spools with reel drum type bedding systems.

Bozdemir drum twister lines provide high production speeds for round, sector and Milliken profile wires with various line combinations.

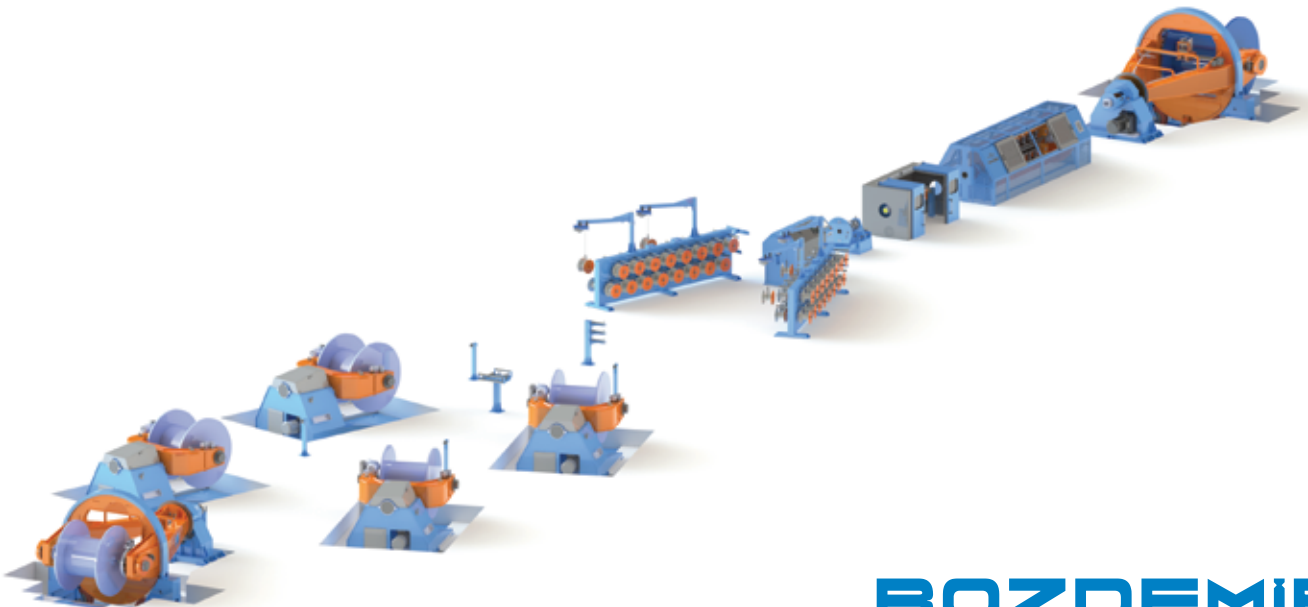
Designed according to client needs, these lines use tangential metal, non-metal or central taping systems according to specifications of the intended product. In addition, special stranding apparatuses are also available for sector and round productions and armoring applications.

In each Bozdemir machinery which has rotating parts and requires air, the air required by the rotating parts is provided "Dynamic Air Socket", a patented product of Bozdemir. This product eliminated product losses during production and reduces maintenance costs almost to zero thanks to its long-lasting lifetime.



High production speeds

For various combinations of
round, sector and Milliken
profiles.



BOZDEMİR

**Reduced line
preparation time**
**Easily adaptable line
configuration for different
production methods.**



Heavy duty rotor unit

**Detailed design, precise
engineering and trusted
craftsmanship.**

Diameter (mm)	Max. Spool Weight (Tons)	Rotation Speed (rpm)
Ø1600	5,5	160
Ø2000	9	140
Ø2250	10,5	115
Ø2500	11	90
Ø3000	13,5	55
Ø3500	22	55
Ø4000	27	55





DOUBLE TWISTER LINE – BODT

BODT Series double twist stranders, has various models according to its maximum reel size as Ø630, Ø800, Ø1000, Ø1250, Ø1600, Ø2000 mm.

Thanks to used advanced production technology, enhanced design and engineering methods, it increases the precision of production with higher rotation and production speeds.

BODT Series provides various range of production with wide cross section range.

Bozdemir BODT Series double twist stranders, provides higher work safety with its sound insulated protection cages.



**Heavy duty body
structure**

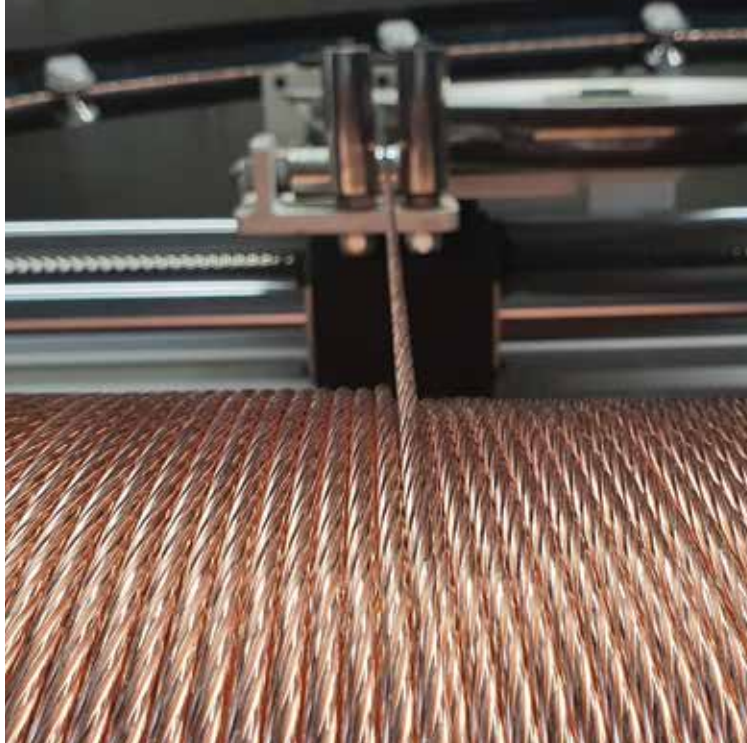
**Well calculated
intelligent design.**



BOZDEMİR

High production output

High speed, longer production time, short preparation time and reduced downtime.



Sensitive wire tension

Control with advanced automation system.

Model	BODT 630	BODT 800	BODT 1000	BODT 1250	BODT 1600	BODT 2000
Reel Range	Min. Ø 560mm Max. Ø 630mm	Min. Ø 630mm Max. Ø 800mm	Min. Ø 800mm Max. Ø 1000mm	Min. Ø 1000mm Max. Ø 1250mm	Min. Ø 1000mm Max. Ø 1600mm	Min. Ø 1250mm Max. Ø 2000mm
Product Range	0,09-6 mm ²	0,25-16 mm ²	2,5-50 mm ²	6-120 mm ²	16-240 mm ²	16-400 mm ²
Max. Twist Speed	6500 tpm	5000 tpm	3200 tpm	2000 tpm	1200 tpm	1000 tpm
Max. Line Speed	300m/min	300 m/min	300 m/min	300 m/min	200 m/min	150 m/min



SINGLE TWIST LINE – BOSS

Single Twist Lines provide the best solution in smooth and exclusive manufacturing. Delicate signal, data transmission, LAN and fiber optic cable twisting are realized by this unique machine as well as cabling of insulated conductors.

Precision of the production guaranteed by long lasting strong monoblock body structure and ensured by stress relief heat treatment.

With advanced electrically synchronized automation system, machine runs without the need of an external capstan unit to eliminate the additional investment and maintenance costs alongside increasing the production speeds especially for armoring and screening operations.

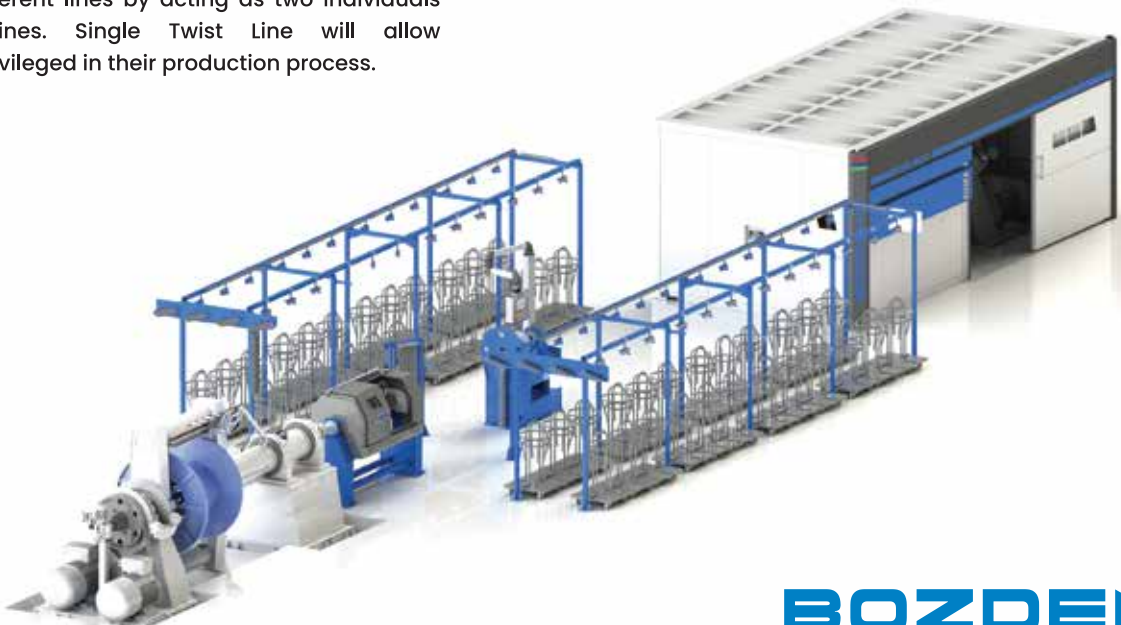
Safety measures such as safety cabinet, electrically and mechanically secured pintle mechanism are prioritized for any step of the operation.

Laser controlled pay off traverse system and absolute encoder controlled take up traverse system ensures the precise unwinding and spooling quality.

Single Twist Machines are multi-functional and flexible in production where the pay-off and take-up can be operated separately as different lines by acting as two individuals take up machines. Single Twist Line will allow manufacturers privileged in their production process.



**Exclusive delicate
production
Capable of privileged,
special and smooth
manufacturing.**



BOZDEMİR

**Unique
transformation
Multifunctional
production, convertible
into dual line.**



**Faster in
synchronization with
electrical mechanic
system
No need any external
haul-off machine.**

Model	BOSS 800	BOSS 1000	BOSS 1250	BOSS 1600
Reel Range	Max. Ø 800mm Min. Ø 630mm	Max. Ø 1000mm Min. Ø 800mm	Max. Ø 1250mm Min. Ø 1000mm	Max. Ø 1600mm Min. Ø 1250 mm
Max. Rotation Speed	800 rpm	600 rpm	550 rpm	250 rpm
Max. Line Speed	250 m/min	200 m/min	160 m/min	100 m/min
Max Laid-Up Diameter	16 mm	20 mm	25 mm	35 mm
Twisting Direction	S or Z	S or Z	S or Z	S or Z



ARMOURING LINE

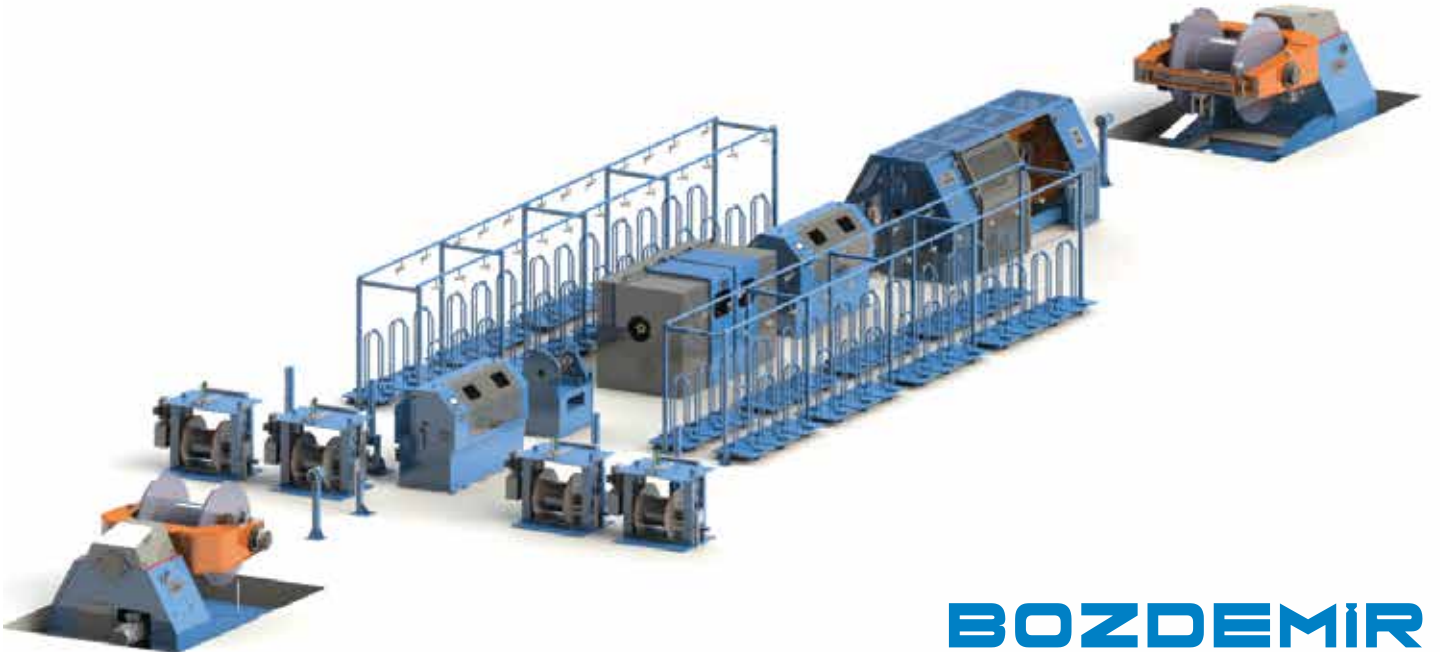
Fast and durable structure of the armouring lines consists of, rotating pay-off ($\varnothing 1600$ - $\varnothing 2500$ mm), rotating take-up ($\varnothing 1600$ - $\varnothing 2500$ mm) and rotating caterpillar (1500-7500 kgf) options that are compliance with the production section sizes.

With the pay-off systems options (basket type pay-off for R-wires, multi-wire pay-off for F-wires) that is compatible for the armouring wire, easy and high-quality production can be feasible.

Bozdemir armouring lines provide various production possibilities with tapping machines (metal and non-metal) and the various line equipment options.



**Various armouring
options**
**Adjustable line design for
special costumer needs.**



BOZDEMİR

**High stranding
speeds
Well-designed strong
rotor structure.**



**Reliable and
precise
armouring solutions
Adjustable wire tension
during operation.**





SCREENING LINE

Bozdemir screening lines offer production at high speeds with its various reels options ($\varnothing 560$, $\varnothing 630$ and $\varnothing 800$ mm) and wide range of reel size ($\varnothing 2000$ - $\varnothing 4000$ mm) support.

The high-quality production can be done easily with powerful and stable structure of the caterpillar (1000 - 4000 kgf).

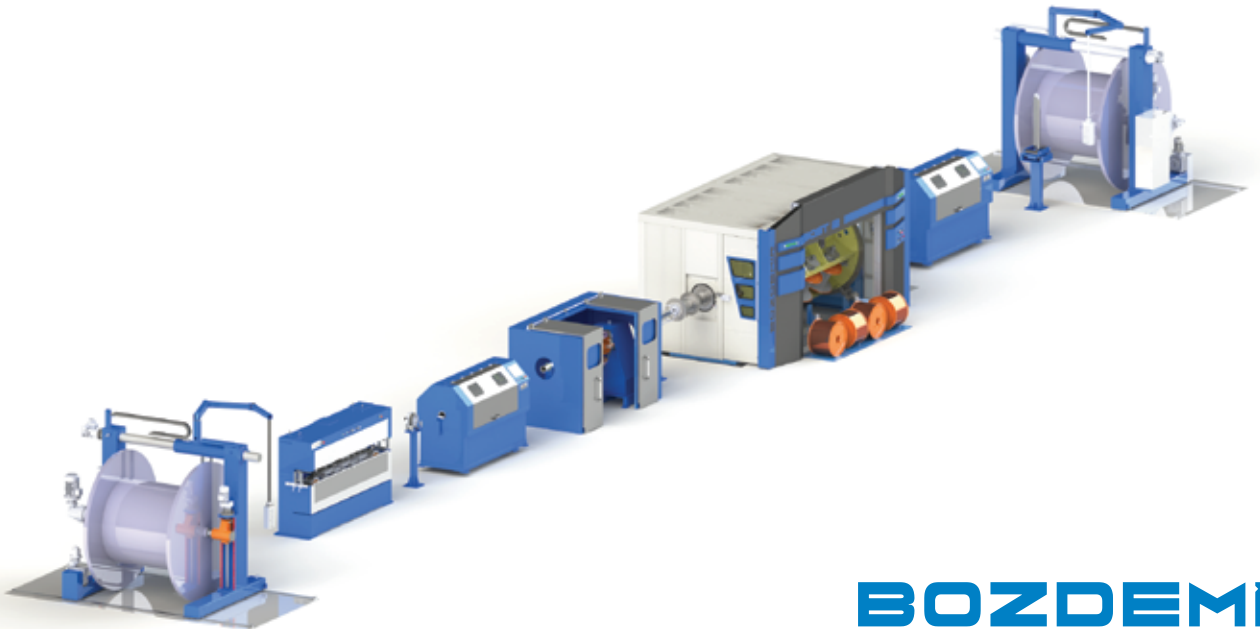
Production can be done with any number of screening wires in the cages that designed for production needs.

High-efficient production lines can be formed with taping machine (copper, mylar, crepe, paper etc.) options that are compliance with the production specifications.



**Continuously
controlled wire
tension**

**Reliable and fast production
with automation-controlled
tension system.**



BOZDEMİR

Vide range of taping options

Product-specific design with
high speed taping solutions.



Variable line combinations

Vide range of line
combinations for minimum
downtime and maximum
line speed.





TAPING LINES

Bozdemir taping lines (X-Taper and BOVT) are suitable for use on aluminum and copper conductors as well as insulated cables.

These lines allow mica, HFFR, crepe, copper, polyester, mylar and steel taping applications.

Our taping machines allows high speed of production and flexibility with up to 3000 rpm of taping head speed and adjustable lay length from its operator panel during operation.

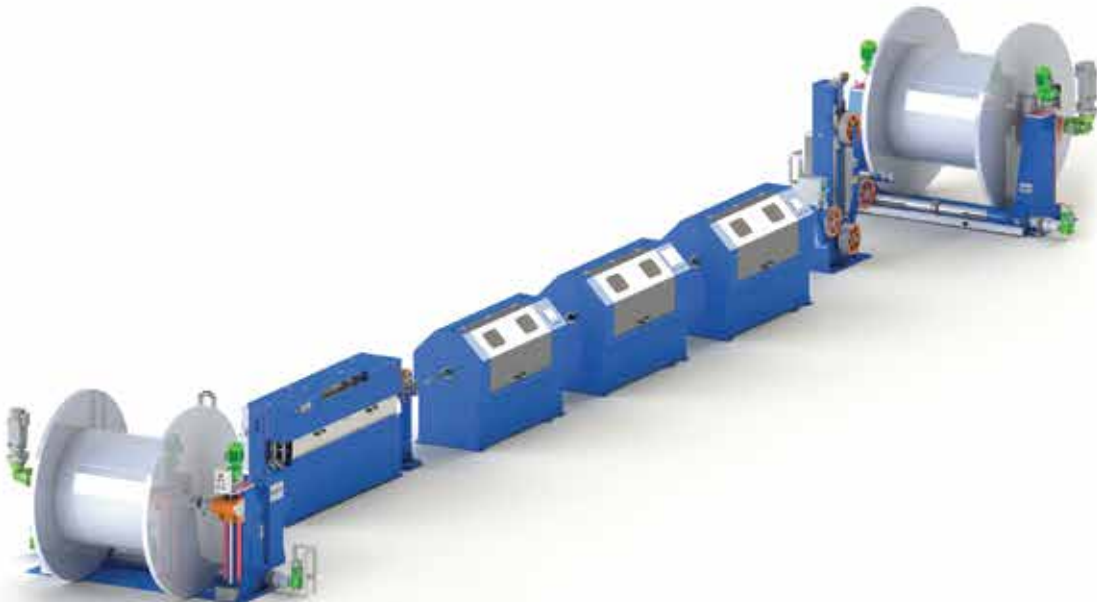
Bozdemir taping lines provide flexible and fast production operations due to its production speeds up to 60 m/min

With adjustable tension control during operation. It provides wide range of taping operation possibilities. Thanks to automation-controlled tape out and tape break sensors, continuum of the operation and product quality are always under observation.

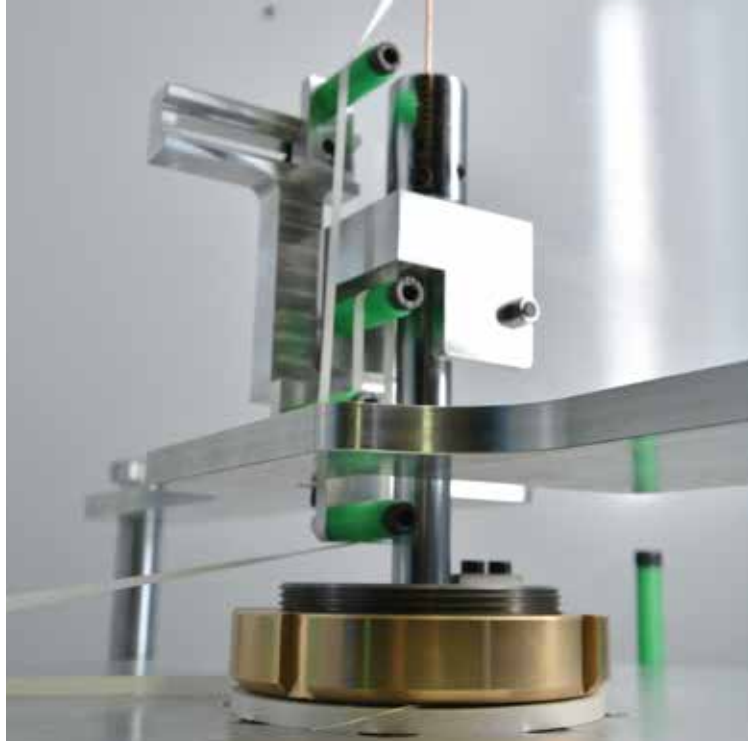
BOZDEMİR



HORIZONTAL TAPING LINE - X-TAPER



**Fast, precise,
adjustable and
flexible taping
solutions for all of
your production
choice.**



VERTICAL TAPING LINE – BOVT



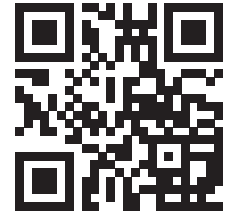
**Wide
tension
range on
high speed
operations.**



TANGENTIAL TAPING MACHINE

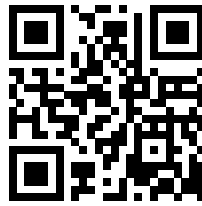


Model	Tangential Taping Machine
Max. Tape Diameter	Ø600 mm or Ø800 mm
Min. Tape Hole Diameter	Ø76 mm
Max. Rotation Speed	750 rpm
Tape Width	15 – 80 mm
Center Passahe Diameter	Ø150 mm
Tape Tension	2 – 30 daN
Usable Tape Types	Steel Galvanized, Cu, Al, PET, PVC, Polyester, Mica, etc.



Cable and wire stranding technologies

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Stranding Axis

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