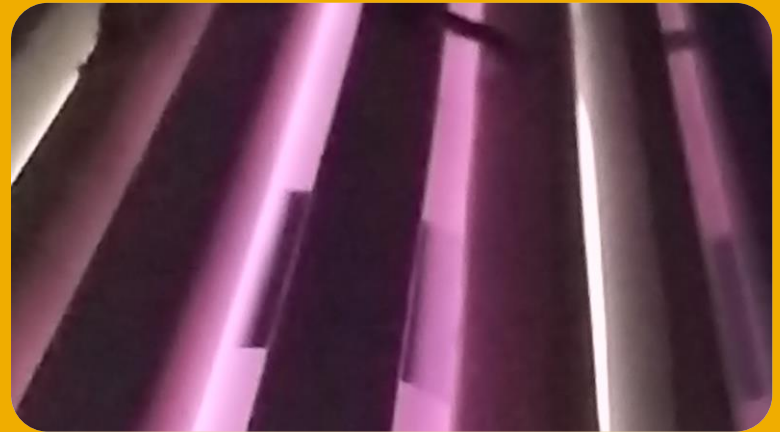




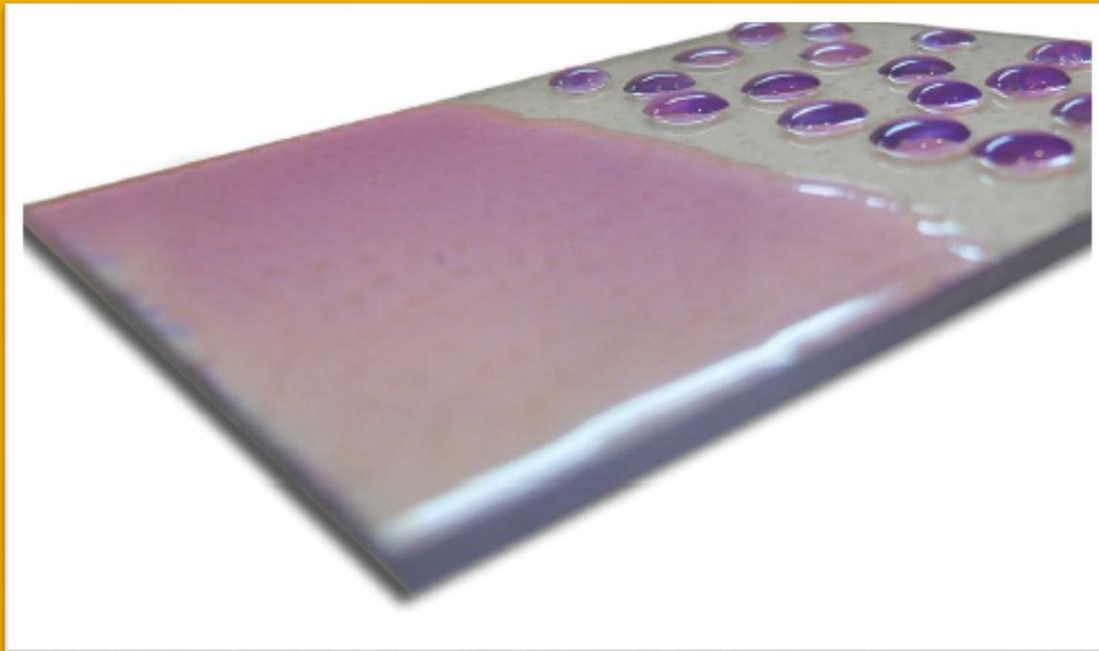
CORONA TREATER

Product Description



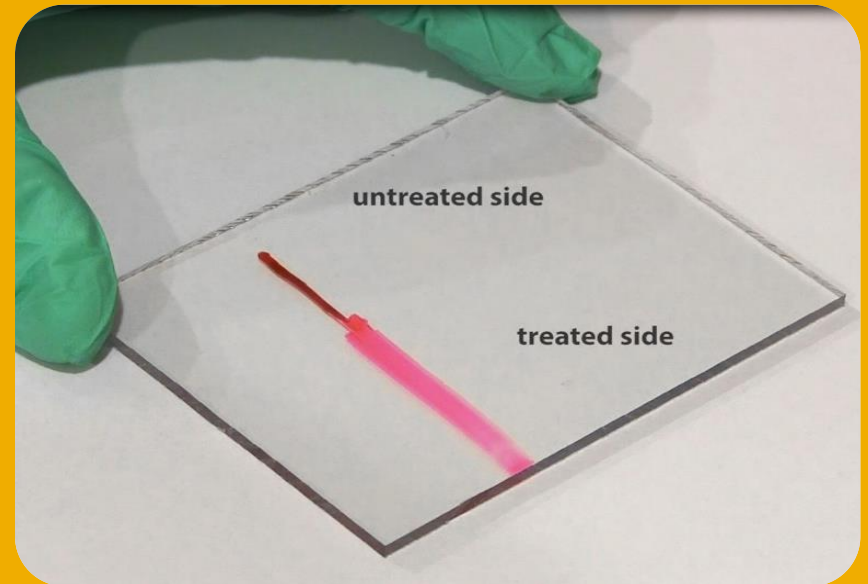
What Is the Corona Processes

Corona treatment can be polymer, metal, glass, etc. Surface lamination process or printing process is the name of the pre-process to provide material revival by breaking the surface processes of the process (adhesive or ink.)



What Is the Corona Processes

Corona traters are used in order to eliminate surface stresses during production in plastic and metallized film materials and to increase the adhesion of the material surface. Optionally we can produce corona devices and Plasma with different power and width.



What Is the Corona Processes

Corona treater and plasma treater have control card that produce 3 up to 40 khz. Which the system that can produce the controllable high voltage (8 up to 20 kV) in the voltage transformer.



What Is the Corona Processes

1. Generator with control unit

2. Station part where high voltage is generated and material passes



WHY WE SHOULD CHOOSE AIS ENGINEERING



Big things in a
short time

The first microprocessor-
controlled IGBT
technology in Turkey.



Specific Design

Original designs created
with customer needs in
mind.



Experience

Spare parts supply to
more than 200 companies
for 60 machines working
non-stop in 35 different
companies in 5 years

Generator Types

AIS 1000 and up to 3Kw

- Control with microprocessor
- IGBT technology
- LCD touch screen
- Controllable power
- Product movement tracking
- Product meter tracking work safety door sensor
- Visual and audible error notifications.



Generator Types

AIS 5000

AIS 10 K

- Control with microprocessor
- IGBT technology
- LCD touch screen
- Controllable power
- Product movement tracking
- Product meter tracking
- work safety door sensor
- Visual and audible error notifications.
- Remote Access(optional)



Station Types

Sticker Corona

A quality corona treatment is necessary to ensure the flawless print quality we want at the end of the production line. Therefore, it is important to use corona systems in label printing.

Specifications:

Width : 50mm-500mm

Speed : 1- 250 m/min

Electrode : Ceramic Number of Transaction

Side : 1 (2-optional)

Roller : Chrome Plated

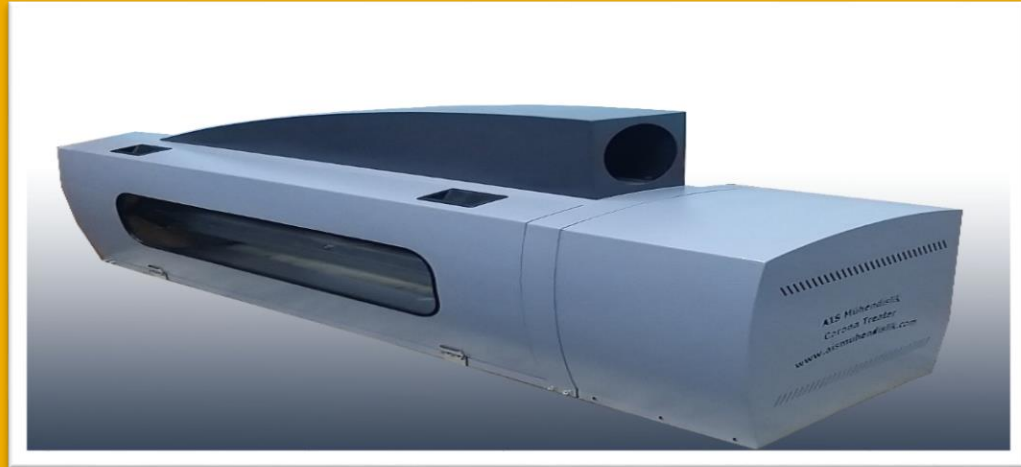
Application: Metallized Label, Aluminum Foil, Label Printing, etc.



Station Types

Plastic Film Corona

Corona treatment on blown film or cast film extrusion lines, printing/lamination/coating etc. Required to achieve an excellent surface tension prior to surface transformation operations



Specifications:

Width : 60,80,100,120mm
Speed : 1- 100 m/min
Electrode : Aluminum
Side : 2 (optional)
Roller : Silicone Cylinder

Station Types

Plastic Film Corona



Specifications:

- Width : 1300mm-3000mm
- Speed : 1- 200 m/min
- Electrode : Aluminum
- Side : 1-2 (optional)
- Roller : Silicone Cylinder
- Roller Diameter : 100mm-200mm



Metal Film Corona



Station Types

Sheet Corona

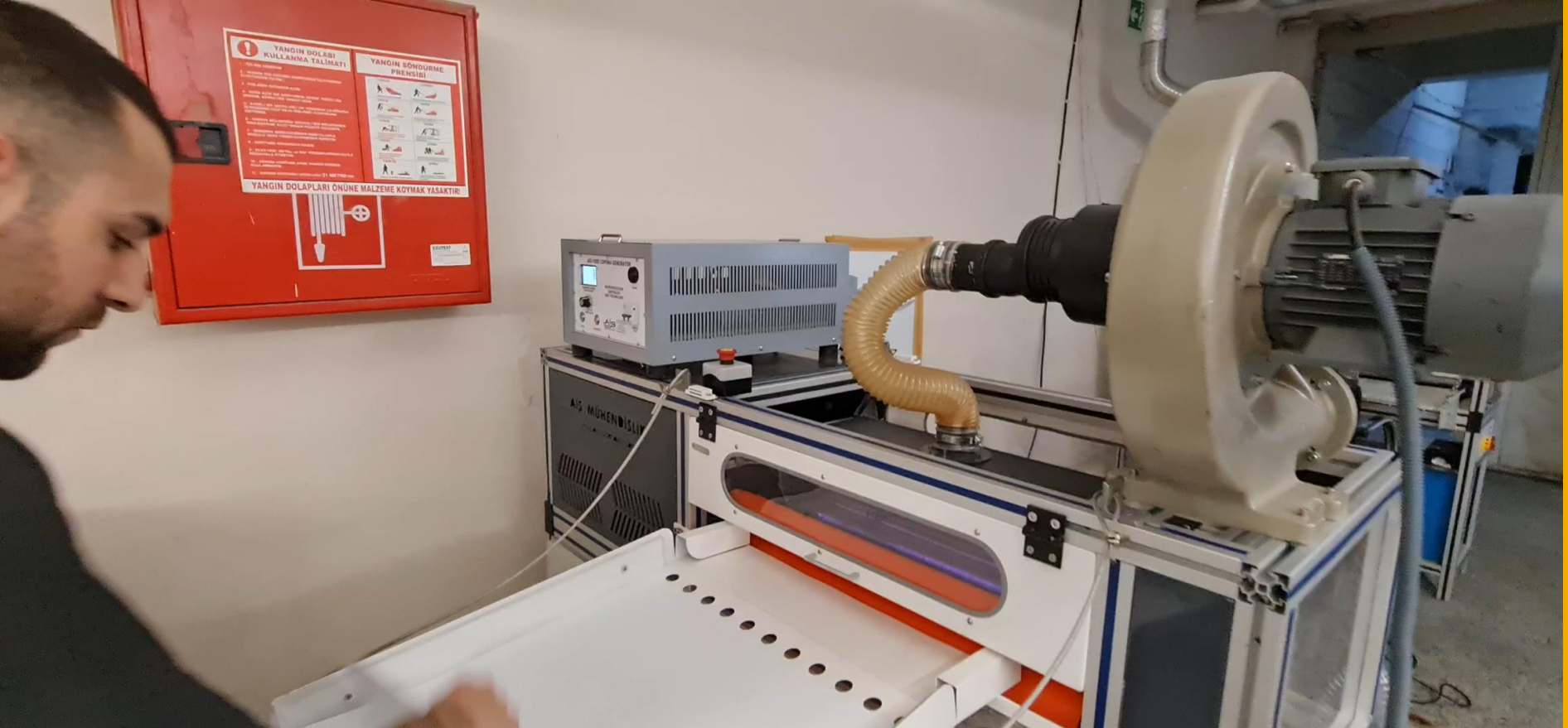
Sheet corona is widely used to increase the surface tension of PP, PVC and metallized polyester laminated sheets, providing better printing and adhesion quality. It is used for the processing of water-based or UV inks on plastic films or unprimed papers. ,

Specifications:

- Width : 50mm-500mm
- Speed : Drive Controlled
- Electrode : Ceramic or Aluminium
- Side : 1 (2-optional)
- Roller : Special to Application



Sheet Corona



Station Types

Cable Corona

It is used in cable production to improve the adhesion of the PVC coating on the wire and to increase the print quality on the cable.

Specifications:

Cable diameter Range: 05.-2.5, 4-50,70-300, 400-100 mm²

Speed: 30- 150 m/min

Electrode: : Aluminum / Ceramic Process Material: PVC/PE/XLPE



Spare Parts and Other products

CORONA SILICONE

- Our corona silicon is completely homogeneous in chemical composition, and is suitable for to create stable discharge conditions. Due to its dielectric property, it allows long-term use. Our flexible silicone sleeves are very resistant in terms of tensile strength



Spare Parts and Other Products

DIMENSIONS OF CORONA SILICONE

No	Roller Diameter(mm)	Silicone Inner Diameter(mm)	Silicone Wall Thickness(mm)
1	50	45	3±0,1
2	60	55	3±0,1
3	65	60	3±0,1
4	70	65	3±0,1
5	75	70	3±0,1
6	80	75	3±0,1
7	90	85	3±0,1
8	100	93	3±0,1
9	120	110	3±0,1
10	150	135	3±0,1
11	200	183	3±0,1

Spare Parts and Other products

TECHNICAL SPECIFICATIONS OF CORONA SILICONE

Feature Name	Unit	Test Result	The standard used
Elektrocal Strength	Kv/mm	18-20	
Hardness	Shore A	65+-3	ASTM D2240
Operating temperature	°C	-60°C dan +250°C	
Pulling Strength	Mpa	11	ASTM D412 DIE C
Tensile Strength	kN/m	22	ASTM D412 DIE B
% Elongation	%	400	ASTM D412 DIE C
Pressure Test (22 hours at 177 °C)	%	30	ASTM D395

Spare Parts and Other products

CERAMIC ELECTRODE

The ceramic electrode consists of an active substance that reduces the risk of deterioration and burning at high temperatures (over 2000°C). Ceramic electrodes enable surface bombardment of metallized films. When using ceramic electrodes, they must be protected against physical damage and impacts, otherwise it will lead to irreversible consequences for the electrode.

Maximum Length

2000 mm

Operating temperature

-40-2000°C

Voltage Resistance

30 Kv

Type

Statikte Seramik

certificaTEE

Ruhs ISO9001:
2008



Spare Parts and Other products

- CORONA TEST MARKER

When Corona Pens or Solutions are used alone, they only test whether the desired corona value is on that surface, but when the Corona Pen or Solution is taken as a set, the surface tension on that surface can be detected. Surface Tension Measurement Sets; AIS Engineering offers you ASTM D2578-67 and DIN 53364 produced pens and solutions, which are the most widely used standards in the world.



Spare Parts and Other products

- CORONA MARKER SETS

Small Corona Set 30-32-34-36-38-40-42-44 dyne/cm

Middle Corona Set 34-36-38-40-42-44-46-48 dyne/cm

Big Corona Set 38-40-42-44-46-48-50-52 dyne/cm

XL Large Corona Set 44-46-48-50-52-54-56-58 dyne/cm

XXL Corona Set 56-58-60-62-64-66-68-70 dyne/cm

Advantage Corona Set 38-38-38-38-38-38-38-38 dyne/cm

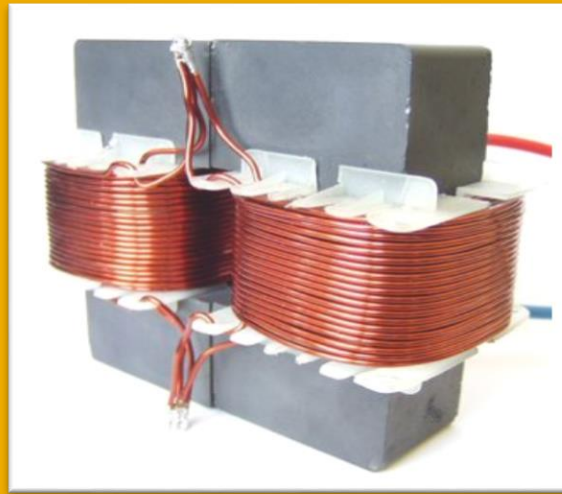
Packer Corona Set 34-36-38-38-38-40-42-44 dyne/cm

Mixed Corona Set 34-42-44-50-64-66-56-70 dyne/cm

Spare Parts and Other products

- CORONA DEVICE HIGH VOLTAGE TRANSFORMER

Ferrite core transformers operating under high frequency and high voltage used in the production of high voltage in Corona devices are repaired and produced, and delivered after passing the necessary tests.





CORONA REZİSTANS ELEKTRİK



Thanks You Too Much 😊



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Tel/Faks: 0212 674 7018

www.aismuhendislik.com