



DATE: 26.08.2023

PROFORMA NO: P20232608/01

## PROFORMA INVOICE

COMPANY

: Niroo Transfo Mfg Co.

ADRESS

: 7th Floor, No. 35 East Sarv Street, Saadat abad Blvd, Kaj Square, Tehran, Iran

Proforma Valid: : 30 DAYS

NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	isk. %	TOTAL
1	Power & Free conveyor line 215m PFU with loading/unloading apparat	1,00	PCS	\$ 565.000,00	20,00	\$ 452.000,00
2	Liquid Paint booth with heating and positive pressure	2,00	PCS	\$ 72.000,00	20,00	\$ 115.200,00
3	Tunnel type oven 11.200 x 5,000 x 3.000 mm 120 °	1,00	PCS	\$ 98.000,00	20,00	\$ 78.400,00
4	Tunnel type oven 21.200 x 5,000 x 3.000 mm 220 °	1,00	PCS	\$ 132.300,00	20,00	\$ 105.840,00
5	Tunnel type oven 25.200 x 5.000 x 3.000 mm 220 °	1,00	PCS	\$ 180.600,00	20,00	\$ 144.480,00
6	Pre-Treatment line with 6 bath	1,00	PCS	\$ 262.300,00	20,00	\$ 209.840,00
7	Flash-off tunnel	2,00	PCS	\$ 9.500,00	20,00	\$ 15.200,00
8	System control unit PLC with display and remote control	1,00	PCS	\$ 18.100,00	20,00	\$ 14.480,00
9	Wagner Manuel powder coating gun	2,00	PCS	\$ 5.100,00	20,00	\$ 8.160,00
10	Wagner Automatic powder coating gun	6,00	PCS	\$ 5.000,00	20,00	\$ 24.000,00
11	Powder coating cabin compact cyclone 15.000 m <sup>3</sup>	1,00	PCS	\$ 18.600,00	20,00	\$ 14.880,00
12	Robot Reciprocator for powder coating	2,00	PCS	\$ 4.800,00	20,00	\$ 7.680,00

MADE IN ORGINAL TURKEY

**TOTAL EXW** 1.190.160,00

Construction Time

Shipping Time

**Delivery Time** 

Installation Time

NET WEIGHT

GROSS WEIGHT

160 Business days

45 business days

70 TON +-20

80 TON +-20

2 week

3 week

### IT WAS MANUFACTURED IN 2023 AND IS NEW AND UNUSED. OUR PRODUCTS ARE MANUFACTURED IN CE STANDARDS

PAYMENT

: %50 WITH ORDER, %50 BEFORE SHIPPING

PRICES

: TL V.A.T. IS NOT INCLUDED

BRAND

: IESMAK

COMPANY NAME : İESMAK DIŞ TİCARET ANONİM ŞİRKETİ

BANK

: HALK BANKASI

ACCOUNT (USD)

: 53000638

BRANCH

: 9647 SULTANBEYLI BRANCH, ISTANBUL / TURKIYE

IBAN NO

: TR 4600 0120 0964 7000 5300 0638

SWIFT

Scheduling, manufacturing and installation will be handled by Seller company. Shipping of the system will be handled by buyer company. Seller company will provide an after Sales service (onside and offside), spare parts, installation, company personal training and guaranteeing the quality of products and installed production line supports.

## IESMAK DIŞ TİCARET ANONİM ŞİRKETİ

ist. Deri Org. San. Böl. Yan San. Gelişme Alan YB19 Parsel No. 26 Yuzla İstahbut / TÜRKİYE P: +90 444 86 28 - F: +90 216 504 27 86 Web: www.iesmak.com.tr TAX Office & NO : TUZLA/4701/348089 1-0

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### DIŞ TİCARET ANONİM ŞİRKETİ

#### 2.. IRON PHOSPHATE SPRAY SYSTEM SURFACE TREATMENT CLEANING LINE

#### 2.1TECHNICAL DAT

TUNNEL WIDTH : 3.900 mm

TANK WIDTH : 3.900 mm

TOTAL WIDTH : 3.900 mm

TUNNEL HEIGHT : 3.850 mm

TANK HEIGHT : 1.800 mm

TOTAL HEIGHT : 6.700 mm

TOTAL LENGTH : 33.800 mm

STEAM SUCTION FAN : 2,500 m3/h

NOZZLE PRESSURE : 1.0-1.5 bar

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE ANGLE : 60°

BUILDING MATERIAL : AISI 304 2mm stainless sheet

#### 2.2.1. TUNNEL ENTRANCE HALL

EXHAUST ASPIRATOR : 7.000 m3/h

BUILDING MATERIAL : AISI 304 2mm stainless sheet

#### 2.2.2. PRE- DEGREASING+IRON PHOSPHATE

PROCESS TIME : 3 MINUTES

PART LENGTH : 4.000 mm

NUMBER OF RINGS : 9 PCS X 2 (1 % 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m³/h — 1500 d/min SUCKING PUMP OR STANDARD PUMP

TYPE OF SEAL : MECHANICAL SEAL





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### DIŞ TİCARET ANONİM ŞİRKETİ

TANK MATERIAL : AISI 304 QUALITY 2 mm CHROME NICKEL

PROCESSING OPERATION TEMPERATURE: 50 -60°C

TYPE OF HEATING : 120.000 kcal/h "ECOFLAM" GAS BURNER WITH THERMOBLOCK SYSTEM

HEATING UNIT STRUCTURE : 2.5mm 304 chrome, Ø60x3mm

TUNNEL BUILDING MATERIAL : AISI 304 QUALITY 2 mm CHROME NICKEL

ENGINES USED IN PLANT: GAMAK or WAT TANK ISOLATION: TANK 5 cm ROCK WOOL,

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : Rubber-covered butterfly valve

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve adjusted system for recovery between boilers

#### 2.2.3 DEGREASING+IRON PHOSPHATE

PROCESS TIME : 3 MINUTES

PART LENGTH : 4.000 mm

NUMBER OF RINGS : 9 PCS X 2 (1 % 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m<sup>3</sup>/h — 1500 d/min SUCKING PUMP OR STANDARD PUMP

TYPE OF SEAL : MECHANICAL SEAL

TANK MATERIAL : AISI 304 QUALITY 2 mm CHROME NICKEL

PROCESSING OPERATION TEMPERATURE: 50 -60°C

TYPE OF HEATING : 120.000 kcal/h "ECOFLAM" GAS BURNER WITH THERMOBLOCK SYSTEM

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### DIŞ TİCARET ANONİM ŞİRKETİ

TUNNEL BUILDING MATERIAL : AISI 304 QUALITY 2 mm CHROME NICKEL

ENGINES USED IN PLANT: GAMAK or WAT TANK ISOLATION: TANK 5 cm ROCK WOOL,

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : Rubber-covered butterfly valve

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve adjusted system for recovery between boilers

2.2.3 RINSING 1

PROCESS TIME : 1 MINUTES

PART LENGTH : 4.000 mm

NUMBER OF RINGS : 9 PCS X 2 (1 1/4 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m³/h — 1500 d/min STANDARD OR SUCKING PUMP

TYPE OF SEAL : MECHANICAL SEAL

TANK MATERIAL : AISI 304 QUALITY 2mm CHROME NICKEL

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : 3 Inches Rubber-covered butterfly valve

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve-adjusted system for recovery between boilers

2.2.4 RINSING 2

PROCESS TIME : 1 MINUTES

PART LENGTH : 4.000 mm

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### DIS TICARET ANONIM SIRKETI

NUMBER OF RINGS : 9 PCS X 2 (1 1/4 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m<sup>3</sup>/h — 1500 d/min STANDARD OR SUCKING PUMP

TYPE OF SEAL : MECHANICAL SEAL

TANK MATERIAL : AISI 304 QUALITY 2mm CHROME NICKEL

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : 3 Inches Rubber-covered butterfly valve

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve-adjusted system for recovery between boilers

2.2.4 PHOSPHATING

PROCESS TIME : 3 MINUTES

PART LENGTH : 4.000 mm

NUMBER OF RINGS : 9 PCS X 2 (1 % 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m³/h — 1500 d/min STANDARD OR SUCKING PUMP

TYPE OF SEAL : MECHANICAL SEAL

TANK MATERIAL : AISI 304 QUALITY 2mm CHROME NICKEL

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : 3 Inches Rubber-covered butterfly valve

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### DIŞ TİCARET ANONİM ŞİRKETİ

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve-adjusted system for recovery between boilers

2.2.4 RINSING 3

PROCESS TIME : 1 MINUTES

PART LENGTH : 4.000 mm

NUMBER OF RINGS : 9 PCS X 2 (1 % 304 chrome)

RING AXIS RANGE : 350 mm

NOZZLE AXIS RANGE : 350 mm

NUMBER OF NOZLES IN RING : 15 PCS

TOTAL NUMBER OF NOZZLES : 270 PCS

NOZZLE FLOW RATE : 15 Lt/min

NOZZLE TYPE : BODY PLASTIC-SPRINKLER MINE

SPRAY PUMP : 240 m³/h — 1500 d/min STANDARD OR SUCKING PUMP

TYPE OF SEAL : MECHANICAL SEAL

TANK MATERIAL : AISI 304 QUALITY 2mm CHROME NICKEL

SHEETING : AISI 304 STAINLESS SHEET

PUMP PRESSURES : INDICATORS FROM BAR 1 TO 3 BAR ARE AVAILABLE

VALVES : 3 Inches Rubber-covered butterfly valve

AUTOMATIC FILLING : Automatic level controlled by float

CASCADE SYSTEM : Valve-adjusted system for recovery between boilers

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### DIS TICARET ANONIM SIRKETI

#### 9. AUTOMATION CONTROL PANEL WITH PLC CONTROL

The electrical control panel will be installed in the area suitable for transportation at the powder coating facility and complete installation wiring operations will be operated including signaling installations.

PLC control and electrical materials used in the control panel will be Schneider, Siemens and Ls. There is a sensor in the system that adjusts the automatic vertical strokes and horizontal positions with Z-Vertical and Y-Horizontal axis reading and activates and deactivates the guns. Company officials will authorize the facility control unit and prevent access with the passwords designated by themselves so that speeds and values are not changed.

With the real-time clock system, it offers the possibility of furnaces to be operated at any time before working hours and ready for the facility before the start of work. Apart from the main thermostat of the furnaces, there is also a safety thermostat to protect the combustion chamber and to control the temperature coming out of the chimney.

The automatic lubrication station located on the conveyor line is activated as specified during certain periods of time without leaving the control to the human and lubricates the conveyor automatically. It notifies the problems that may occur in the conveyor line to the system at the moment of jamming or snagging and shows it on the main screen.

In the event of a possible malfunction of all electrical and electronic equipment used on the facility, the contractor firm will provide a solution by the technical service unit from the IESMAK Factory as soon as possible with remote access permission.

Phone: 444 86 28

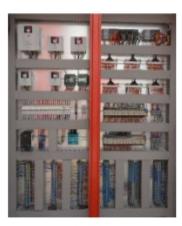
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Fax:0216 504 27 85





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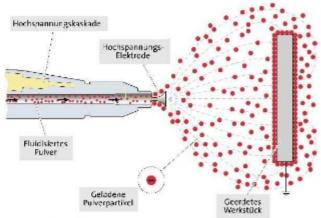




### DIS TICARET ANONIM SIRKETI

#### 10.WAGNER ELECTROSTATIC POWDER COATING SYSTEM

The powder coating gun and electrostatic power unit to be used in the system are systems manufactured with the latest technology. The power units used in electrostatic powder coating loading have the ability to be operated in accordance with both the CORONA system and the TRIBO system. Today, powder coating production suitable for corona system is predominant in Turkey. However, in the coming years, paint production suitable for the TRIBO system will be started and powder coating systems with TRIBO properties will be on the agenda for the disposal of these paints. In this awareness, we, as a company, would like to offer you a power unit that can be adapted to both systems.



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Another important point that should be noted is that the protection class of the power units we offer you has IP 64 class. The biggest advantage of having this protection class is that in case of any voltage rise and decrease, the machine protects itself and automatically saves the system from damage.

The gun and power unit used in this new system, which is produced with the latest technology of the Wagner group, also adjusts the distance between the gun and the workpiece in direct proportion and automatically detects the amperage and voltage according to the distance and ensures that the paint adheres to the surface of the part at the maximum level.

#### 10.1. WAGNER ELECTROSTATIC GUN MODEL PEM X1



It is the latest technology pistol of the Wagner group.

All high tension operated gun parts are thin and low connected from the end of this pistol.

It is connected to the control module by voltage cable. Therefore, the powder coating cloud can be easily adjusted from the steering wheel with modular technique. The electro-pneumatic control module can easily regulate powder powder transfer, paint dosing and vortex air.



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### DIŞ TİCARET ANONİM ŞİRKETİ

The most important characteristics of these pistols are:

- The high-voltage cascade is integrated into the gun.
- The pistol body has the property of high resistance.
- 3. The nozzle, which can be sprayed uniformly, can be used both manually and automatically.
- Best powder coating atomizability
- 5. Optimal loading
- 6. Ability to wish control with the latest module technique.
- 7. This is because it has compact dimensions that can be used in all robots.

#### 10.2.TECHNICAL SPECIFICATIONS

Dimensions (length x width): 410 x 85 mm.

Weight (without feed line): 535 gr.

Style of construction: Accord.EN 50177

Protection class: IP 54

Air inlet pressure: Max.3 bar.43.5 psi

Air consumption: Max 10 Nm3/hour

Powder coating output amount: Max. 450 g/min

Loading: Negative

Output voltage: Max.100 kV DC

Output current: Max.200 micro A DC

Input voltage: Max.22 Vpp

Input current: Max.0.9 A

Frequency: 19...30 kHz



## **İFSMAK**



### DIS TICARET ANONIM SIRKETI

#### 10.3. NEW MODEL EPG PRIMA SPRINT POWER PACK POWER BOX



EPG SPRINT electrostatic power unit is a unit that provides air control of the powder coating spray system and steplessly regulated voltage to the gun. This unit is a device used in both manual guns and automatic units called ECOTECH.

The power unit has the ability to work with both TRIBO and CORONA systems. Whether you are working with a tribo or corona, it is possible to read and adjust all voltage values from the control panel on the front surface of the module. It is also possible to adjust the dosing air and the supply air from here. The protection class is manufactured as IP 64 unlike other systems. Thanks to the memory cards and programmable memory on the digital module used in the system, it has the ability to store the desired parts by adjusting the voltage and amperage and to recall these settings. Painting of flat surfaces, painting of indented protruding parts and painting at the desired level, re-coating the parts that are in question with a second powder coating coating are available in memory on the module, and since these programs are set, it is possible to call them up without the need for re-adjustment and to paint without losing time with this device.

In addition, there are 50 different program memories on the module and it is possible to re-set all air and electrical settings by means of these programs.

The paint and air percentage can be automatically adjusted via loop. The air dosage adjustment and the auxiliary supply air are adjusted through this loop, set to the desired program memory and can be called up digitally according to the program number again via the display together with the voltage-amperage values entered.

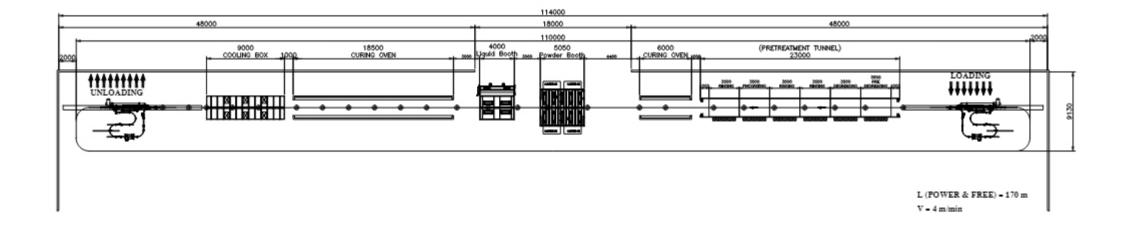
In addition, the cascade, which performs electrostatic charging accordingly, can be monitored from the device in 3 stages of the characteristic adjustment.

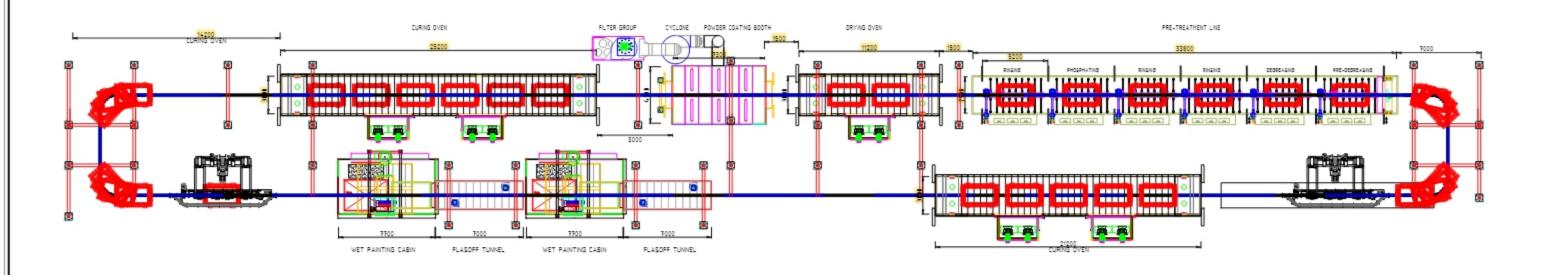
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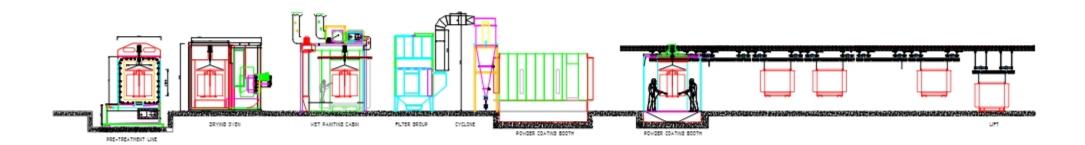
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Fax:0216 504 27 85

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DATE	24 / 10 / 2022 ENG.KUDRET CELENK								
PROJECT				$\sqrt{2}$	Γ	$1/\Omega \cap D$	7		
DRAWING	ENG.KUDI	RET ÇELENK		PAV.	Ί	V A V A	1		
CONTROL	ENG.KUD	RET ÇELENK	Manager Commence						
PRODUCT	POWDER COATING LINE		10969: ISTOERI ORG BUNBÖL YAN SUN GEUIGNE ULUN YENE PURBE, NOOS SISSE ORKUNU TUELI ISTUMBUL. TELEFON: (-40016) EN 27 80 FURS: (-40016) EN 27 86 ENUL: Integlesmikkoom						
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