



We Power Up, We Protect

 www.tabantablo.com

No.9, Morrtaz Aley, Qaem Maqam-e-Farahani
Tehran, IRAN. Postal Code: 1589613748

Tel: +98 21 88846123
Fax: +98 21 88820497



LV & MV Power Panel Manufacturer
Driescher Co Germany Technology Partner

DRIESCHER
Moosburg • Eisleben 

2021 Brochure

PRODUCT PORTFOLIO We Power Up, We Protect





We Power Up
We Protect

About Us

With more than 30 years of experience, Taban Tablo company is one of the leading manufacturers of LV and MV switchgears in Iran.

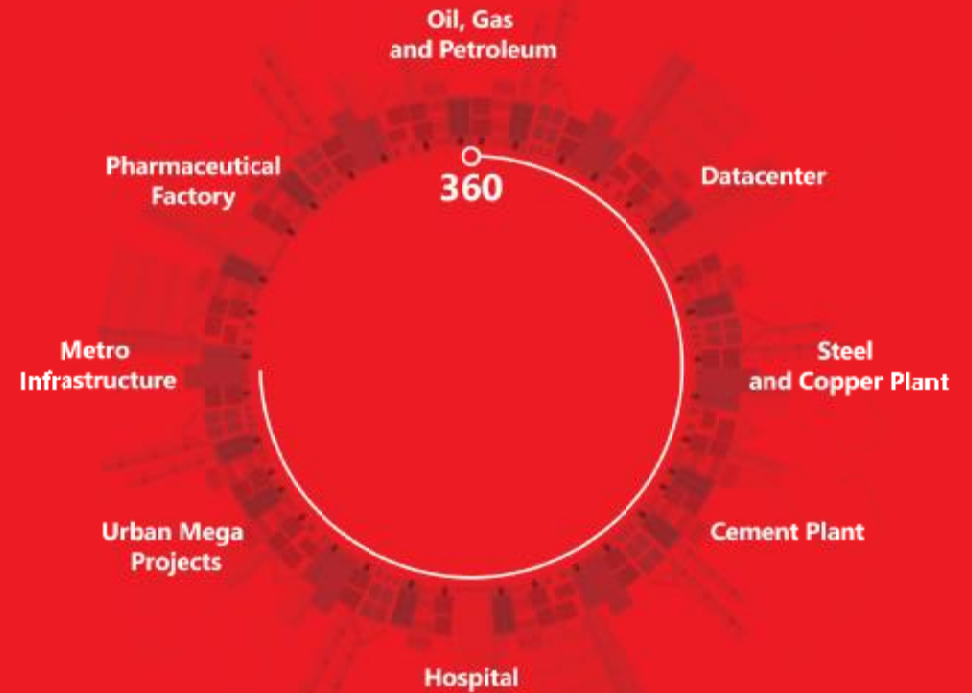
Together with our European technology partners and sister joint venture EPC contractor company, Taban Tablo offers various cutting-edge solutions in the fields of power distribution and industrial automation. Taban Tablo operates two manufacturing facilities which provide around 15,000 sqm of production space within 40,000 sqm of available ground floor.

With the help of high performance machinery and 150 expert staffs, our products meet the requirements of national and international standards and regulations.

Today, beside our technology partner, Driescher, Taban Tablo provides high end top quality solutions to the various customers and infrastructures throughout the whole country. Driescher is one of the leading suppliers of medium voltage switchgears up to 38.5 kV/52 kV and Taban Tablo manufactures MV switchgears under exclusive license of Driescher.

WE POWER YOUR PROJECTS

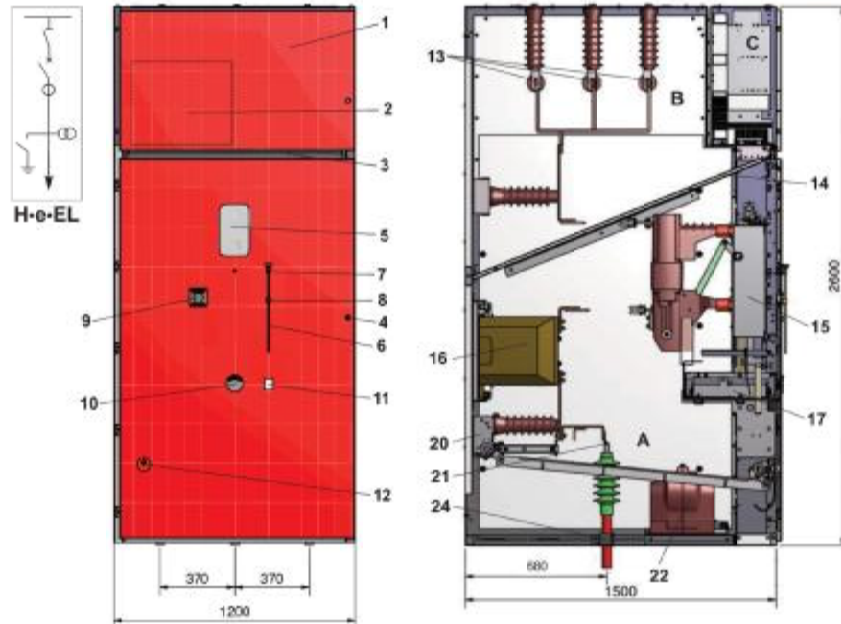
Taban Tablo is proud to have many successfully finished projects in different industries and harsh environments.



PRO-AIR H Series

Withdrawable medium voltage panels, Pro-Air H Series, up to 36 kV
Driescher Technology

Switchgear design



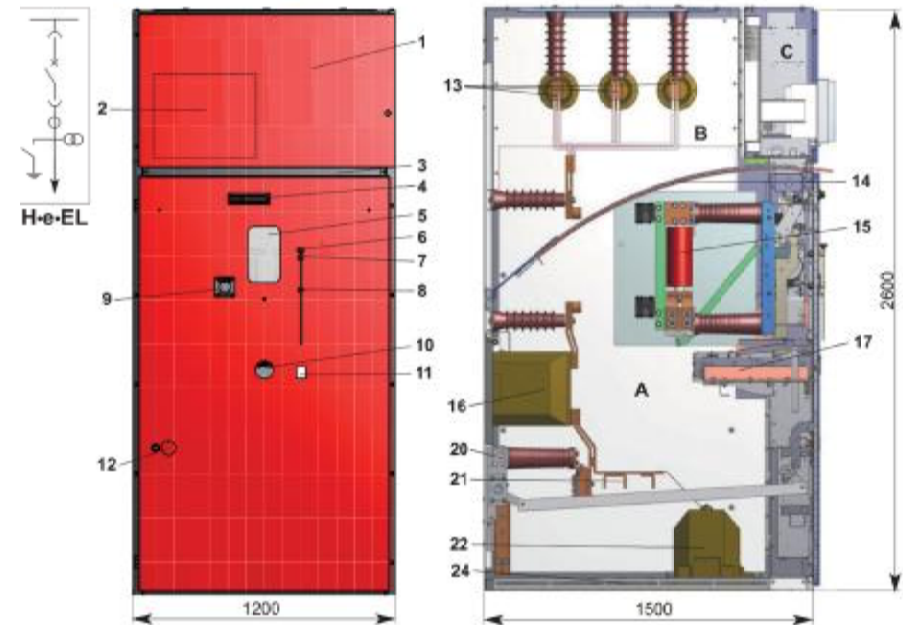
PRO-AIR H-e-EL, Type Circuit breaker in withdrawable unit design 20 kA, 630 A busbar

- | | | |
|--|--|--|
| 1 Door secondary cabinet | 10 Operation for WC ¹ | 21 Cable connection |
| 2 Area for Protective relay ² , Operation elements ² , Voltage detection system ² | 11 Position indication for WC ¹ | 22 Voltage transformer |
| 3 Opening for insulating protective barrier | 12 Operation and Position indication ES ¹ | 24 Crossbar, adjustable |
| 4 Door Central lock | 13 Busbar | 30 Service truck, service for fork lift ² |
| 5 Inspection window for indication VCB ¹ | 14 Insulating Protective barrier | |
| 6 Manual operation stick VCB ¹ | 15 Vacuum circuit breaker | A Cable connection- and switch-gear area |
| 7 Manual operation stick VCB ¹ ON | 16 Current transformer | B Busbar area |
| 8 Manual operation stick VCB ¹ OFF | 17 Withdrawable cassette for VCB ¹ | C Secondary cabinet |
| 9 Hand-wound mechanism VBC ¹ | 20 Earthing switch | |

¹ VCB=Vacuum circuit breaker, ES=Earthing switch, WC=Withdrawable cassette ² as option

Switchgear design

Pro-Air H.e.EL 31.5 kA



PRO-AIR H-e-EL, Type circuit breaker in withdrawable unit design 31,5 kA, 2000 A busbar

- | | | |
|--|--|--|
| 1 Door secondary cabinet | 10 Operation for WC ¹ | 21 Cable connection |
| 2 Area for Protective relay ² , Operation elements ² , Voltage detection system ² | 11 Position indication for WC ¹ | 22 Voltage transformer |
| 3 Opening for insulating protective barrier | 12 Operation and Position indication ES ¹ | 24 Crossbar, adjustable |
| 4 Door Central lock | 13 Busbar | 30 Service truck, service for fork lift ² |
| 5 Inspection window for indication VCB ¹ | 14 Insulating Protective barrier | |
| 6 Manual operation stick VCB ¹ | 15 Vacuum circuit breaker | A Cable connection- and switch-gear area |
| 7 Manual operation stick VCB ¹ ON | 16 Current transformer | B Busbar area |
| 8 Manual operation stick VCB ¹ OFF | 17 Withdrawable cassette for VCB ¹ | C Secondary cabinet |
| 9 Hand-wound mechanism VBC ¹ | 20 Earthing switch | |

¹ VCB=Vacuum circuit breaker, ES=Earthing switch, WC=Withdrawable cassette ² as option

Advantages:

- Easy access
- Simple operation
- Air insulated, SF6 free
- Minimal maintenance requirement
- Maximum safety and reliability

Features:

- Type tested according to IEC 62271-200
- Air insulated and metal enclosed
- Rated voltage 36 kV
- Rated current up to 2500 A
- Rated short time current up to 31.5 kA-3 s
- Degree of protection IP 3X
- Loss of service continuity class LSC2, PI
- Internal arc classification (IAC A FLIR) 31.5 kA-1 s

Advantages:

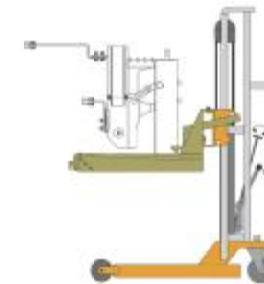
- Easy access
- Simple operation
- Air insulated, SF6 free
- Minimal maintenance requirement
- Maximum safety and reliability
- High operating safety

Features:

- Type tested according to IEC 62271-200
- Air insulated, metal clad construction
- Rated voltage up to 24 kV
- Rated current up to 2500 A
- Rated short time withstand current up to 31.5 kA 3 s
- Degree of protection IP 4X
- Loss of service continuity class LSC2B
- Internal arc classification IAC AFLR 31.5 kA 1 s



- * = Rated short-circuit duration under arcing influence 1 s.
 1) higher currents upon request
 2) max. rated current of the HV-HBC fuse
 3) in accordance with the attached HV-HBC fuses



Withdrawable medium voltage panels, E3K Series, up to 24 kV
 Driescher Technology

E3K Series

DRIESCHER
 Moosburg · Eisleben


**Technical data of switchpanel**

Rated voltage	U_r	12 kV	12 kV
Lightning impulse withstand voltage	U_p	75 kV	75 kV
Rated short-duration power-frequency withstand voltage	U_d	28 kV	28 kV
Rated current	I_r	630 A / 1250 A ¹⁾	630 A / 1250 A ¹⁾
Rated short-time current	I_k	up to 31.5 kV	up to 31.5 kV
Rated short-circuit duration	t_k	3 s*	3 s*
Rated peak short-circuit current	I_p	up to 80 kV	up to 80 kV
Rated frequency	f_r	50 Hz	50 Hz

Technical data of switches**Vacuum Circuit-Breaker**

Rated voltage	U_r	12 kV	12 kV
Rated current	I_r	up to 1250 A ¹⁾	up to 1250 A ¹⁾
Rated short-time current	I_k	up to 31.5 kA ¹⁾	up to 31.5 kA ¹⁾
Rated peak short-circuit current	I_p	up to 80 kA	up to 80 kA

Switch-disconnector H27

Rated voltage	U_r	12 kV	12 kV
Rated current	I_r	630 A	630 A
Rated short-time current	I_k	20 kA	20 kA
Rated peak short-circuit current	I_p	50 kA	50 kA

Switch-fuse combination H27

Rated voltage	U_r	12 kV	12 kV
Rated current	I_r	125 A ²⁾	125 A ²⁾
Rated short-time current	I_k	25 kA ³⁾	25 kA ³⁾
Rated peak short-circuit current	I_p	63 kA	63 kA

Power Prime 24 kV Series

PowerPrime 12/24 medium voltage series up to 24 kV
Type tested by international reference laboratories



Advantages:

- Simple operation
- Air insulated, SF6 free
- Minimal maintenance requirement
- Maximum safety and reliability
- High operating safety

Features:

- Type tested according to IEC 62271-200
- Air insulated, metal clad construction
- Rated voltage up to 24 kV
- Rated current up to 2500 A
- Rated short time current up to 31.5 kA-1 s
- Degree of protection IP 4X
- Loss of service continuity class LSC2B

General electrical characteristics

Switchboard		12 kV	17.5 kV	24 kV
Rated voltage	kV	12	17.5	24
Rated insulation voltage	kV	12	17.5	24
Rated power frequency with stand voltage	kV (1 min)	23 ^(*)	38	50
Rated lightning impulse with stand voltage	kV	75	95	125
Rated short-time with stand current	kA (3s)	31.5	31.5	25
Peak current	kA	50	80	63
Internal arc with stand current	kA (1s)	31.5	31.5	25
Branch connectors rated currents	A	1250	1250	1250
		1600	1600	1600
		2000	2000	2000
		2500	2500	-
Main bus bars rated currents	A	630	630	630
		1250	1250	1250
		1600	1600	1600
		2000	2000	2000
		2500	2500	-

(*) Also available at 42 kV (1 min).

Earthing switch electrical characteristics

Earthing switch with making capacity		12 kV	17.5 kV	24 kV
Rated short-time with stand current	kA (3s)	25	25	25
	kA (1s)	31.5	31.5	-
Making capacity	kAp	60	80	63



Power Prime 40.5 kV Series

PowerPrime 36/40.5 medium voltage series up to 40.5 kV
Type tested by international reference laboratories

Advantages:

- Simple operation
- Air insulated, SF6 free
- Minimal maintenance requirement
- Maximum safety and reliability
- High operating safety

Features:

- Type tested according to IEC 62271-200
- Air insulated, metal clad construction
- Rated voltage up to 40.5 kV
- Rated current up to 3150 A
- Rated short time current up to 31.5 kA 1 s
- Degree of protection IP 4X
- Loss of service continuity class LSC2B

General electrical characteristics

Switchboard		36 kV	40.5 kV
Rated voltage	kV	36	40.5
Rated insulation voltage	kV	36	40.5
Rated power frequency with stand voltage	kV (1 min)	80	95
Rated lightning impulse with stand voltage	kV	170	185
Rated short-time with stand current	kA (3s)	31.5 (1)	31.5
Peak current	kA	80 (2)	80
Internal arc with stand current	kA (1s)	31.5	31.5
Branch connectors rated currents	A	1250	1250
		1600	1600
		2000	2000
		2500	2500
		3150	3150
Main bus bars rated currents	A	630	630
		1250	1250
		1600	1600
		2000	2000
		2500	2500
	3150	3150	

(1) Also available at 40 kA

(2) Also available at 100 kA





Withdrawable Series

Low voltage panel

Advantages:

- Safety and proven quality for every system
- High flexibility for economical solutions

Features:

- Type-tested standard modules (TTA)
- Standardized busbar position at top of the cubicle
- 3- and 4-pole busbar system up to 7400 A
- Rated peak withstand current Ipk up to 375 kA
- Deep switchgear compartment for universal installation
- Modular structure of device compartments
- Single-front and back-to-back installation
- Cable lead-in from above or below
- Cable connection from front or rear





Fixed-Mounted Series

Low voltage panel

Advantages:

- Efficient installation
- Economic, reliable and flexible

Features:

- Molded-case circuit breakers or fuse-switch disconnectors can be fitted as required
- Free combination of cable feeders within one cubicle
- Continuously adjustable mounting plates for a standard front plane
- Cable feeders with and without current measurement



PFC Series

Low voltage panel

Advantages:

- Modular design
- Flexible and reliable

Features:

PFC modules are available up to 600 kVAR in a single cubicle design.

The cubicles for central reactive power compensation ease the load on transformers and cables, reduce transmission losses and save current costs. Depending on the load characteristics and harmonic content of the system, detune reactors could be utilized for harmonic current suppression.





AUTOMATION

Taban Tablo manufactures adaptable solutions for different industries and applications. We provide automation and control panels for

- Industrial Automations
- BMS
- Smart Home Systems (KNX Protocol Panels)



 **TABAN
TABLO**

OUR PROJECTS

Urban Mega Projects



Iran Mall Electrical Substations MV & LV Panels



International Olympics Stadium
Karbala, Iraq



Mobin Hotel Karbala

Hospitals



Institute for Research Education and Treatment of Cancer



Mahdi Clinic 1000 Bed hospital



Hakimieh Hospital

OUR PROJECTS

Oil, Gas & Petroleum



Shazand Petrochemical Complex



Noor Abad Gas Compression Station



Mahshahr - Torbat Heidarieh
Gas Transfer Pipes



Takht-E Jamshid Petrochemical Complex



Zagros Petrochemical Complex

OUR PROJECTS

Industrial and Datacenter



Mellat Bank Main Datacenter 1 MW IT Load



Gotvand Dam and Hydroelectricity Power Plant



Kerman Combined Cycle Power Plant



Damavand Power Plant



Shoosh 230 kV Substation



Iran Mall Substation Automation



Abhar Cable Manufacturing Co



Zahedan Combined Cycle Power Plant



Shazand Power Plant



Zagros Daroo Parsian Pharmaceutical Factory

OUR PROJECTS

Steel



Bootia Steel Plant



Ghaenat Steel Plant



Sangan Steel Plant



Esfahan Steel Company

OUR CUSTOMERS

Based on our commitment to production of high quality products, Taban Tablo has been approved in Vendor List of the following Companies.



National Iranian Oil Company

National Iranian Oil Company



Tehran Urban 7 Suburban
Railway Operation Co.



Iranian Gas Engineering
And Development Co.



Iran Mall

Iran Mall



National Iranian Steel Co.

National Iranian Steel Co.



NATIONAL IRANIAN
COPPER INDUSTRIES CO.

National Iranian Copper
Industries Co.



IRITEC



Iranian Offshore Engineering
and Construction Company

Iranian Offshore Engineering
and Construction Company

BEYOND LIMITS

Our R&D section is proud to develop new products based on client request.

- Compact Substation
- Electrical Substation Charger Panel
- Power Management System (PMS)
- Wall Mounted IP 66 Panel
- Isolated Power Panel Solution
- Power Panels for Harsh Environments
- MV Capacitor Bank
- Data Rack



CERTIFICATES

DRIESCHER
Moosburg • Eisleben

CERTIFICATE

Wir, Elektrotechnische Werke Fritz Driescher & Söhne GmbH, registered under the law of Germany,

hereby certify that

that **TABAN TABLO**, registered under the law of the Islamic Republic of Iran is authorized and owner of our exclusive license to manufacture and sell D24-6011111 series switchgear in Iran.

(Christoph Driescher)
Managing Director

Moosburg 27.08.2019

Elektrotechnische Werke Fritz Driescher & Söhne GmbH • Driescherstr. 1 • 02469 Moosburg
Management Board: Gunn Christian Christoffer Driescher and Ulf
Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher
www.driescher.de • Tel. +49 3701 951-1 • Fax. +49 3701 951-107

DRIESCHER
Moosburg • Eisleben

CERTIFICATE

Wir, Elektrotechnische Werke Fritz Driescher & Söhne GmbH in Moosburg, Germany registered under the law of Germany,

hereby certify that

TABAN TABLO, registered under the law of the Islamic Republic of Iran is authorized to produce and sell our

36 kV type-tested Primary Distribution switchgear PRO-AR II in the Islamic Republic of Iran.

To ensure the highest quality specifications, Taban Tablo is regularly trained and audited by Driescher. Taban Tablo maintains a quality system according to ISO 9001. This certificate is valid till 27.08.2021.

(Christoph Driescher)
Managing Director

Moosburg 27.08.2019

Elektrotechnische Werke Fritz Driescher & Söhne GmbH • Driescherstr. 1 • 02469 Moosburg
Management Board: Gunn Christian Christoffer Driescher and Ulf
Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher
www.driescher.de • Phone: +49 3701 951-1 • Fax: +49 3701 951-107

DRIESCHER
Moosburg • Eisleben

CERTIFICATE

Wir, Elektrotechnische Werke Fritz Driescher & Söhne GmbH in Moosburg, Germany registered under the law of Germany,

hereby certify that

TABAN TABLO, registered under the law of the Islamic Republic of Iran is authorized to produce and sell our

42 kV and 36 kV type-tested Primary Distribution switchgear R1X in the Islamic Republic of Iran.

To ensure the highest quality specifications, Taban Tablo is regularly trained and audited by Driescher. Taban Tablo maintains a quality system according to ISO 9001. This certificate is valid till 27.08.2021.

(Christoph Driescher)
Managing Director

Moosburg 27.08.2019

Elektrotechnische Werke Fritz Driescher & Söhne GmbH • Driescherstr. 1 • 02469 Moosburg
Management Board: Gunn Christian Christoffer Driescher and Ulf
Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher • Ulf Christoffer Driescher
www.driescher.de • Phone: +49 3701 951-1 • Fax: +49 3701 951-107

DRIESCHER
Moosburg • Eisleben

**TABAN
TABLO**

We Power Up, We Protect



power prime icmet
mechanical type tests



power prime icmet
electrical type tests



LV PANEL IP TEST 1



LV PANEL IP TEST 2



Power Prime IP



Power Prime Temperature Rise



LV PANEL IP TEST 3



LV PANEL IP TEST 4



Power Prime



ISOLATED PANEL



ISO

DRIESCHER
Moosburg • Eisleben



**TABAN
TABLO**

We Power Up, We Protect