

## ABOUT US

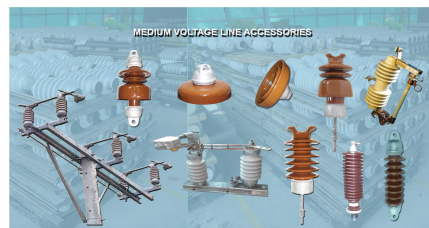
PT Twink Indonesia was established in the 1960s as a family trading business that caters the needs of PT PLN (PERSERO), the state-owned national electricity company in Indonesia. Since then, PT Twink Indonesia has grown constantly and become one of the market leaders in Indonesian electrical utilities industry. Current factories are located in Bogor, Cikarang, and Bandung.

As a PLN Partner, PT Twink Indonesia has successfully completed many important projects in electrical power industry. Current ongoing projects include High- and Extra-High Voltage transmission lines; High- and Extra-High Voltage Substations, both Gas- and Air-Insulated; and Power Generation projects. One notable milestone is the completion of PLTU Nusa Tenggara Barat 1x25 MW.

## 2019



Set up a new plant to manufacture High Voltage Switchgear in collaboration with Siemens AG, Germany to support government initiative to maximize local content in main equipment material.



## 1999

Utilized state-of-the-art CNC machines for steel fabrication. Expanded footprints on EPC projects for 150 kV, 275 kV, and 500 kV transmission lines; AIS and GIS substations all over Indonesia such as Java, Sumatra, and Kalimantan.

## 1991

Expanded insulator production by setting up a new manufacture in Cikarang with technical assistance from the Lapp Insulator Co., USA.

## 1979

PT Tonggak Ampuh pioneers the introduction of prestressed precast concrete electric poles in Indonesia. This subsidiary company of Twink today operates four factories located in Gunung Putri, Baturaja, Yogyakarta, and



## 1971

Started the production of Low Voltage insulators for PLN through PT Pabrik Keramik Bandung, followed closely with the production of 20 kV Medium Voltage Distribution Insulators.



## 1967

Started supplying various tools and equipment to the state-owned power company PLN.

## 1973

Started fabrication, erection, and stringing of steel towers for PLN's transmission line projects.





# TWINK - SIEMENS PARTNERSHIP




## FACTORY INFORMATION

- Name : PT Twink Indonesia
- Address : Kawasan Industri Wahyu Sejahtera, Jalan Narogong Raya KM. 28, Kembang Kuning, Kelapa Nunggal, Bogor, Jawa Barat, Indonesia
- Established on October 2018
- Located in one of our factory premises (~4ha)

## PRODUCTS

### 3AP1 FI Circuit Breaker & 3AP1 FG Circuit Breaker

Circuit breaker type	3AP1FI	3AP1FG
<b>SPECIFICATIONS</b>		
Type	3AP1FI	3AP1FG
Interrupter units	Single	Single
Rated voltage	170 kV	170 kV
Rated short-circuit breaking current	40 kA	40 kA
Rated normal current	up to 4000 A	up to 4000 A
Temperature range	-60 up to +55°C	-60 up to +55°C
Rated frequency	50 / 60 Hz	50 / 60 Hz
Maintenance after	25 years	25 years
<b>ADVANTAGES</b>	<ul style="list-style-type: none"><li>• Easy installation and commissioning</li><li>• Inspection after 12 years</li><li>• Maintenance after 25 years</li><li>• Service life up to 50 years</li><li>• Minimal transportation costs</li></ul>	
<b>REFERENCE</b>		



## 8DN9 GAS INSULATED SWITCHGEAR SPECIFICATIONS

Switchgear type	8DN9
Rated voltage	up to 245 kV
Rated frequency	56/60 Hz
Rated short-duration power-frequency withstand voltage (1 min)	up to 460 kV
Rated lightning impulse withstand voltage (1.2/50µs)	up to 1050 kV
Rated continuous current - busbar	up to 4000 A
Rated continuous current - feeder/ bus coupler	4000 A
Rated short-circuit breaking current (< 3 cycles)	up to 50 kA
Rated peak withstand current	up to 135 kA
Rated short-time withstand current (up to 3 s)	up to 50 kA
Leakage rate per year and gas compartment (type-tested)	< 0.1%
Driving mechanism of circuit-breaker	stored-energy spring
Rated operating sequence	O-0.3 s-CO-3 min-CO Co-15 s-CO
Interrupter technology	Self-compression principle
Insulation medium	SF <sub>6</sub>
Bay width	1500 mm
Bay height, depth (depending on bay arrangement)	3700 mm x 5100 mm
Bay weight (depending on bay arrangement)	7.5 t
Ambient temperature range	-25°C up to +55°C indoor
Installation	> 25 years
First major inspection	> 50 years
Expected lifetime	IEC/ IEEE/ GOST

Other values on request



### ADVANTAGES

- Passive busbar (no active devices, low losses)
- Compactness
- High mechanical endurance (M2-Class for disconnecter & earthing switch)
- High reliability
- High flexibility
- Less SF<sub>6</sub>, low leakage rate (<0.1%) (Global warming Potential: 22.800)
- Integrated control cubicle
- Extendable while in service
- Service friendliness







## **CONTACT US**

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