

PRODUCT CATALOGUE

- Switchgear
 - Transformers
 - Switch Cubicles
 - Automation Products
 - Other Products
- 
- The background of the page is a vibrant orange. On the left side, there is a vertical blue band. The orange area is decorated with a complex pattern of white and yellow lines, including circuitry, hexagons, and various sized gears, creating a technical and industrial aesthetic.

SWITCHGEAR - Circuit Breakers



Dead Tank Circuit Breaker & Live Tank Circuit Breaker

Product Name	Unit	Annual output	Lead Time (month)	Amount in service*
72.5-550 kV LTCB	set	2000	1-2	16520
72.5kV DTCB	set	500	2	2100
145/126kV DTCB	set	500	2	1750
252kV DTCB	set	360	2	271
550kV DTCB	set	120	2	61
800kV DTCB	set	72	3	26

*By the end of 2017



- Designed & Type Tested per ANSI & IEC standards
- High breaking capacity up to 63kA
- Service temperature range: -55°C - +50°C
- Complies with UL, NEMA, CSL standards
- Control Cubicle tested based on IP55 and IK10
- 10,000+ switching operations



SWITCHGEAR - Gas Insulated Switchgear (GIS & HGIS)



1100kV GIS



800kV GIS



550kV GIS



252kV GIS



38-72.5-126kV GIS



126kV HGIS

Features

- Fully in compliance with IEC 62271
- SF6 Gas Leakage <0.1%
- Mechanical endurance - Class M2
- Longer maintenance cycle than industry average
- Compact enough for easy installation

Gas Insulated Switchgear (GIS)

Product Name	Unit	Annual output	Lead Time (month)	Amount in service*
126/72.5kV	Bay	2500	2	18411
252kV	Bay	1300	2	6664
330kV	Bay	500	2	89
420kV	Bay	360	3	30
550kV	Bay	360	3	327
800kV	Bay	120	3	6
1100kV	Design completed & prototype successfully tested			

*By the end of 2017

SWITCHGEAR – Disconnect Switches



GW23A-550 type
for North Green
River Station in
Brazil



GW7F-363 type
for Xingren Station
in Gansu



GW4-72.5 Type
for ITER project
in France



GW7F-1100 type
for Nanyang
1000kV
EHV Station



GW6A-420 type
for Jeradal x
350MW
Project in Morocco



GW23A-252 type
for Datka-Keming
500kV Project
in Kyrgyzstan



- Main supplier for State Grid Power of China and China Southern Power Grid
- Provide device for the first $\pm 1000\text{kV}$ DC transmission project in the world
- Recently qualified as a global supplier to ENEL
- Products operated in over 20 countries
- Fast delivery with reliable quality

Transformers - Power Transformers & Reactors

FACILITY

- 39m Ceiling height & 600T crane capacity
- 45T Vertical winding machine for 1100kV coils
- 4800kV Impulse Voltage Generator



Power and Distribution transformers

- Oil-immersed up to 1100kV / 1000MVA
- Dry type up to 35kV / 25MVA

Special transformers

- Traction
- Arc Furnace
- Rectifier

Shunt reactors

- Oil-immersed 6kV – 800kV; 90MVar

TYPE TEST & CERTIFICATES

- KEMA certificate for 500kV - 334MVA
- CESI certificate for 500kV - 167MVA
- ASTA certificate for 220kV - 240MVA
- KEMA certificate for 110kV - 80MVA
- China CTQC certificate for various transformer
- ISO 9001, ISO14001, OHSAS 18001 certificate
- WEGAI Seismic qualification certificate according to IEEE

Transformers - Instrument Transformers



Minimum oil CT (top core design)	Capacitive VT	Minimum oil CT (hair pin design)	SF6 CT	Resin casting CT/PT	Lightning arrestor
Voltage: 35-500 kV	Voltage: 35-500 kV	Voltage: 35-220 kV	Voltage: 35-500 kV	Voltage: 0.66-35 kV	Voltage: 10-550 kV
Current: 100-4000A		Current: 100-4000A	Current: 100-4000A	Current: 5-5000A	
Capacity: 3500 sets	Capacity: 4500 sets	Capacity: 3000 sets	Capacity: 5000 sets	Capacity: 20000 sets	Capacity: 2500 sets



SWITCH CUBICLES

Top 3 in 12-40.5kV Metal Clad Switchgear in China

Product	Annual Output
40.5kV Switch	3000
27.5 KV Switch	10000
10kV Switch	12000
12-40.5kV Outdoor prefabricated substation	340
400V switch	



AUTOMATION PRODUCTS

Features

- >10 automatic winding machines & welding machines
- Stainless steel tank & hermetically sealed bushings
- Oil & Vacuum treatment facilities
- Fully automated HV test lab/hall



Shunt Banks



SVC (TRC type)



Auto Winding



STATCOM



Air Core Reactors



FC Filters

Capacitor Unit	Internally Fused/Fuseless	30 - 600kVAR 1 - 24KV
Reactor	Air Core	Up to 800kV /40 MVar
Capacitor Bank	Fixed/Shunt	
SVC	TCR/MCR	6 - 210MVar, 6 - 69kV 6 -110kV (MCR)
STATCOM		0.5-200MVar 6 - 35kV
Arc Suppression Coil		6 - 66kV DC Capacity as required
High Frequency Converter		280-5000kVA 6kV or 10kV 50/60 Hz
Dry-type Transformer	Epoxy Cast Resin	50-25000kVA 10kV or 35kV 50/60 Hz

OTHER PRODUCTS – Substation



Rated voltage
 Rated current
 Power frequency withstand voltage
 Rated impulse withstand voltage
 Rated short circuit breaking current
 Rated capacity
 Cooling method
 Operating frequency
 Vector group
 Voltage ratio

24/38kV
 630A
 50kV
 125kV
 20kA
 2500/3000/6000/6250kVA@45°C
 ONAN (Oil Natural Air Natural)
 50/60Hz (3 Phase)
 Dy11 or Dy11y11
 20/22/30/33/34.5kV-0.6/0.8kV or
 0.6-0.6/0.8-0.8kV

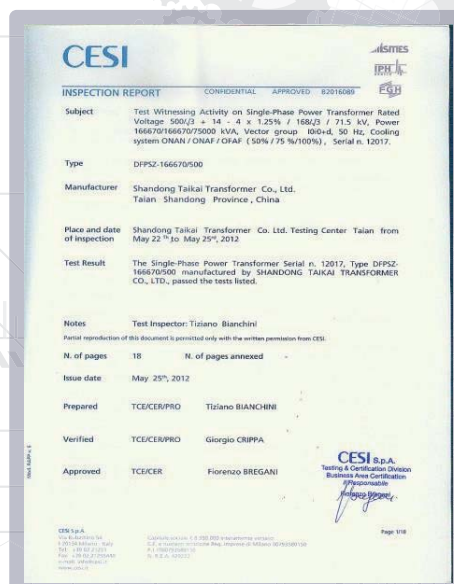
OTHER PRODUCTS - Service Parts

All critical parts and components 90% + self-manufactured
leading Cost-Effective production



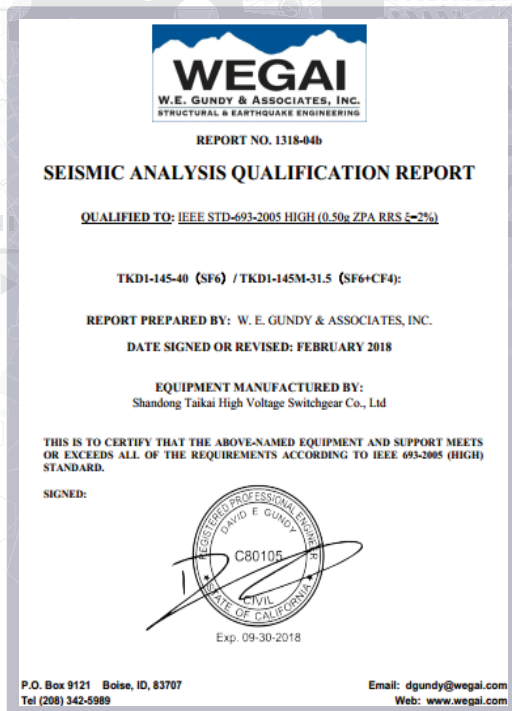
INTERNATIONAL CERTIFICATES

- KEMA certificate
- CESI certificate
- ASTA certificate
- A series of China CTQC certificate
- ISO 9001, ISO14001, OHSAS 18001 certificate
- WEGAI Seismic certificate according to IEEE 693-2005



RESEARCH & DEVELOPMENTS

High Seismic Design



High seismic design which meets all the requirements of IEEE 693-2005 (High) Standard with issued certificates by WEGAI

ZF16-252 GIS

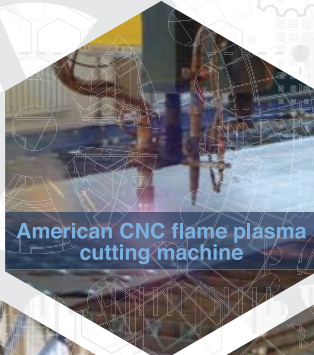


after the 8.2 Richter scale earthquake hit on 12th May, 2008.

MANUFACTURING SYSTEMS



German Hedrich epoxy vacuum casting equipment



American CNC flame plasma cutting machine



America Thermadyne



Finland KEMPPi



CNC floor boring machine



silver plating automatic line



South Korean Doosan processing center



ultrasonic cleaning machine



600Kg/h Aluminum Melting Furnace



126kV GIS Assembly Section



550kV and Above GIS Assembly Section

Dust Controlled Environment

Temperature Control: 18~25°C

Humidity Control: 50%~65%

Traveling crane: 600T

Illumination intensity: 320 lumens or more

MANUFACTURING SYSTEMS



Create and sustain world class manufacturing excellence.

- 9000+ manufacturing equipment
- 7000+ line workers
- 43 workshops
- 3,950,000 M2 Covering area

QUALITY MANAGEMENT

IEC60300-1 : 2003

ISO9001 : 2015



ISO14001 : 2015

OHSAS 18001 : 2017