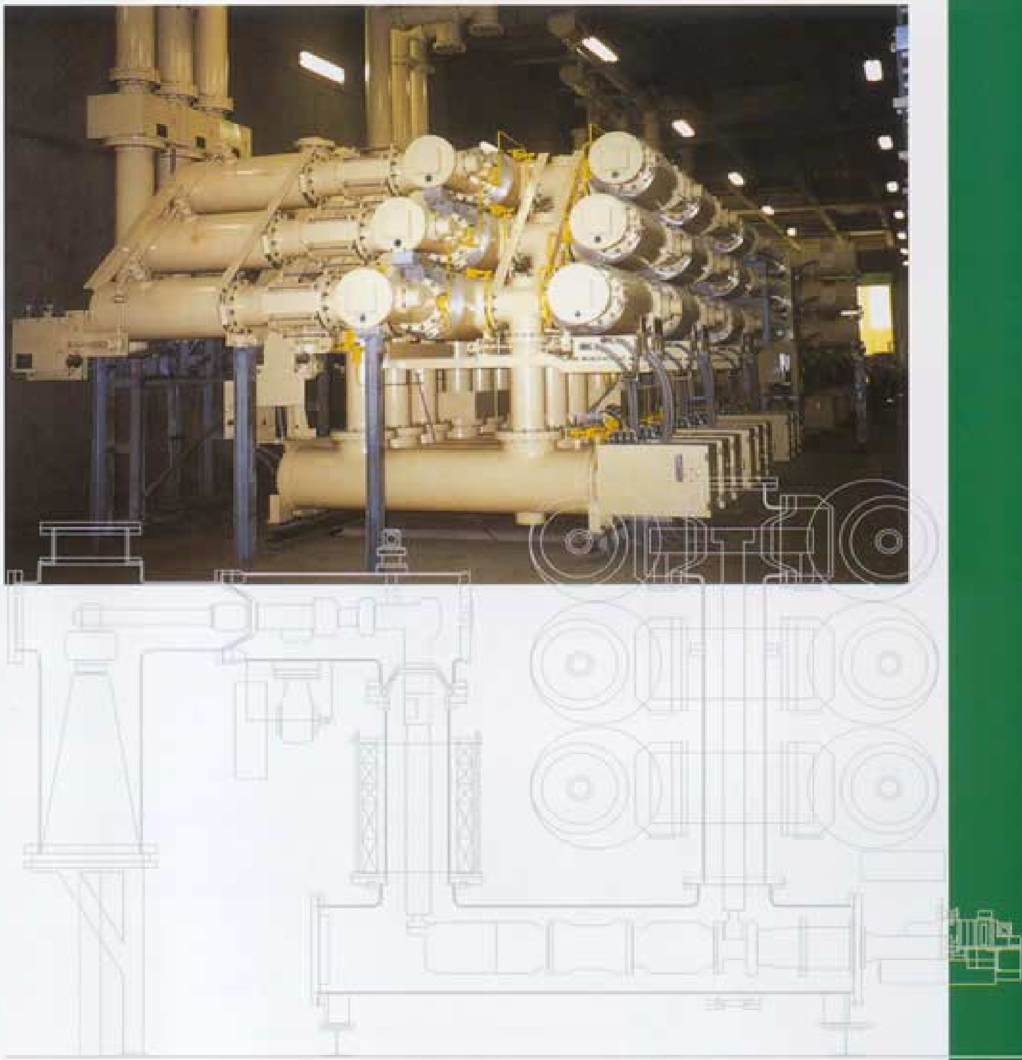
TOSHIBA

G1B

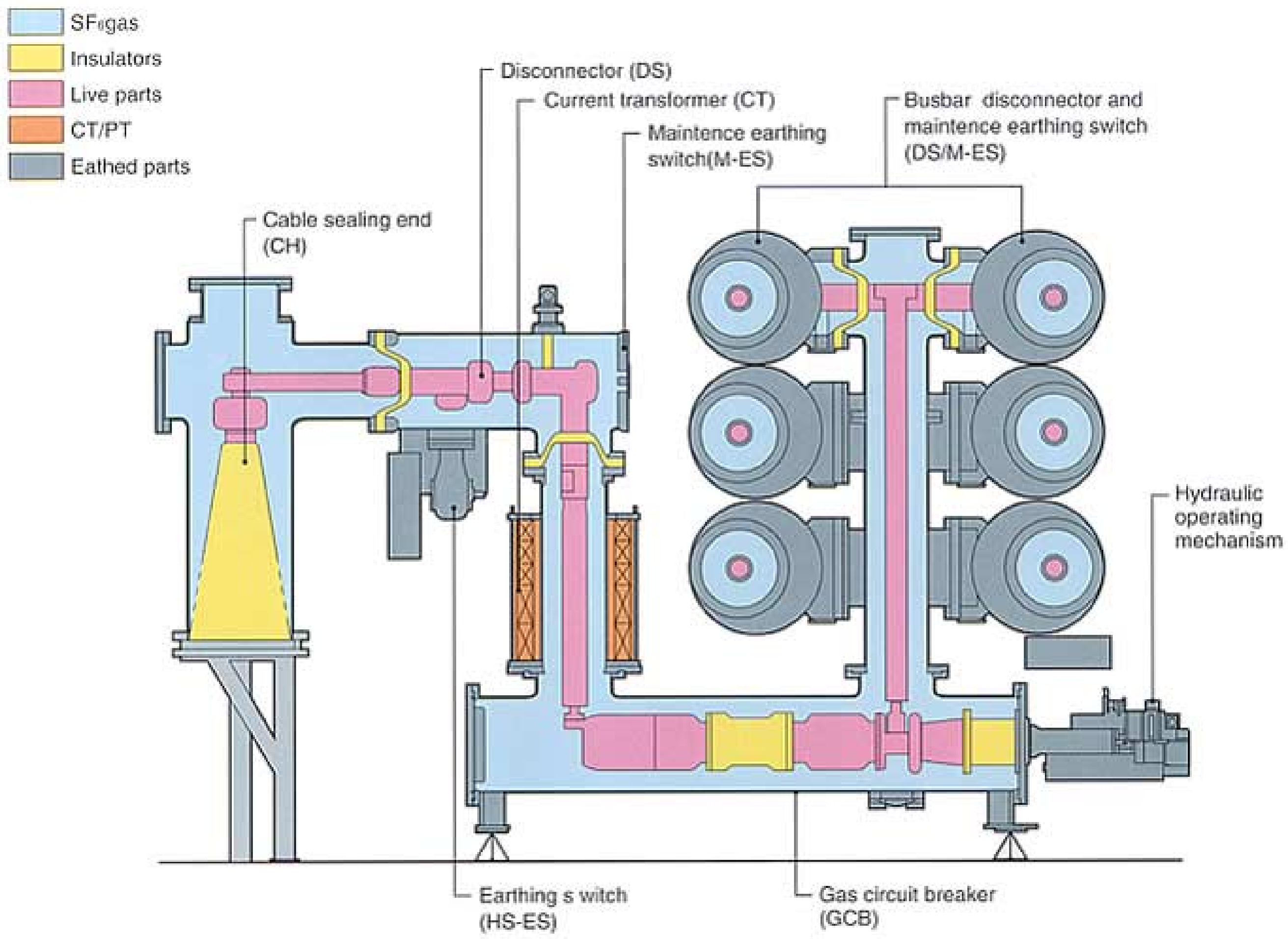
169~252kV Gas Insulated Switchgear



Ratings

Type	G1B
Rated voltage	169/252kV
Rated lightning impulse withstand voltage	750/1050kV
Rated power frequency withstand voltage	365/460kV
Rated frequency	50/60Hz
Rated current	2000/3150/4000 A
Rated short time withstand current	40/50kA-3sec.
Rated gas pressure (abs.)	0.7 MPa(GCB)/0.5 MPa(GIS)
Applied standards	IEC

Typical Construction of 169~252kV GIS



Certificate of KEMA

63–99

KEMA

STLA

TYPE TEST CERTIFICATE OF SHORT–CIRCUIT PERFORMANCE

APPARATUS

DESIGNATION

MANUFACTURER

TESTED FOR

TESTED BY

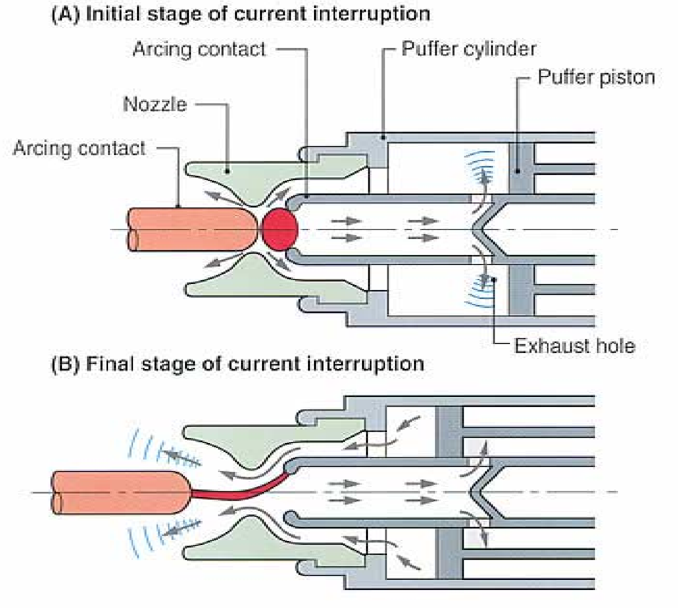
KEMA HIGH–POWER LABORATORY

DATE OF TESTS

IEC 60056

Gas Circuit Breaker

Principle of advanced hybrid puffer



Design phyrosophy for interrupting chanber

Effective are energy transfer to pressure rise

↓

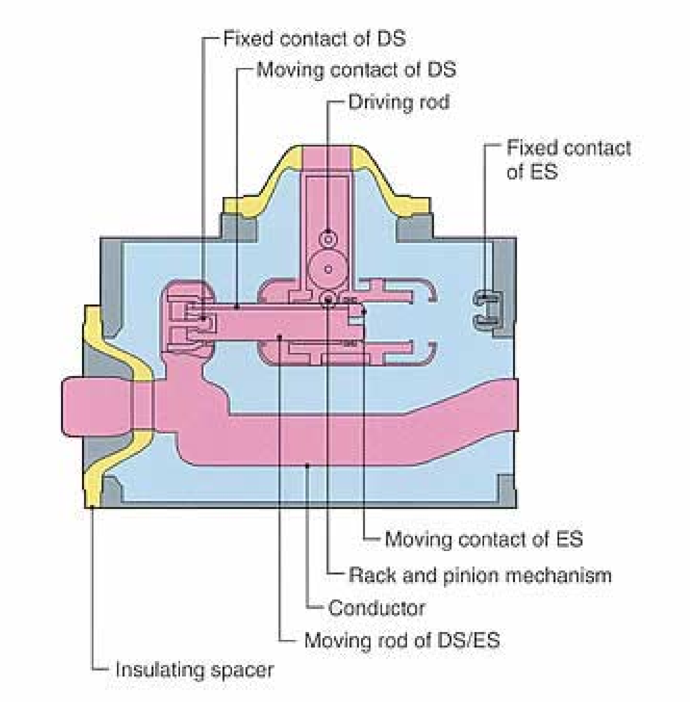
Optimum puffer cylinder dimensions

↓

Reduce the driving energy

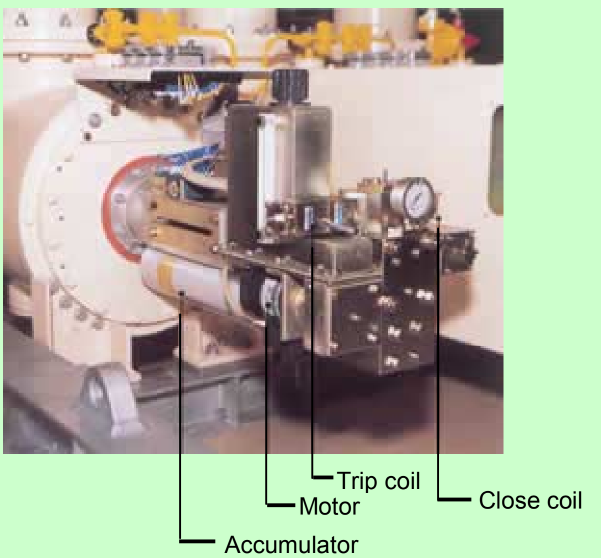
Feature of 3 Position Type for Busbar DS/M-ES

Reduced number of parts
Only one driving mechanism
Compactness
Physically mechanical interlock system

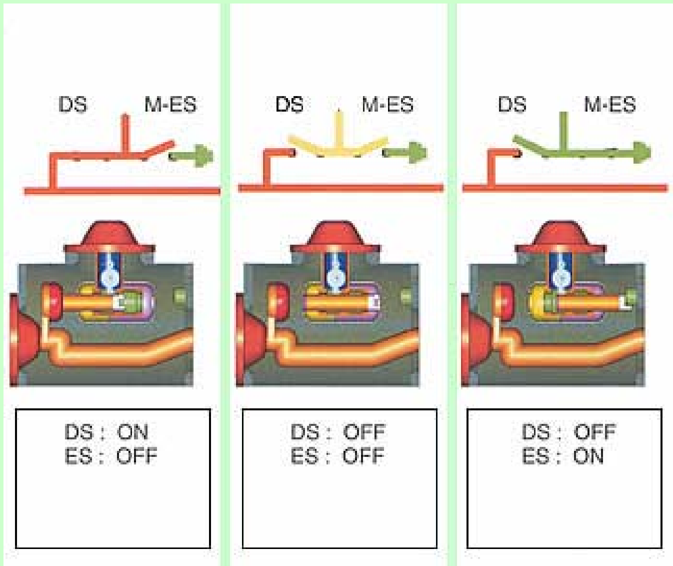


Hydraulic Operating Mechanism of GCB

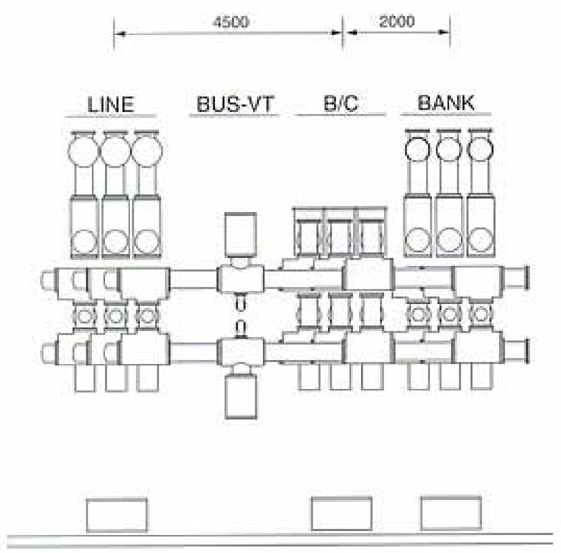
Piping-less
Reduction of sealing points and parts
Small quantity of oil
High reliability

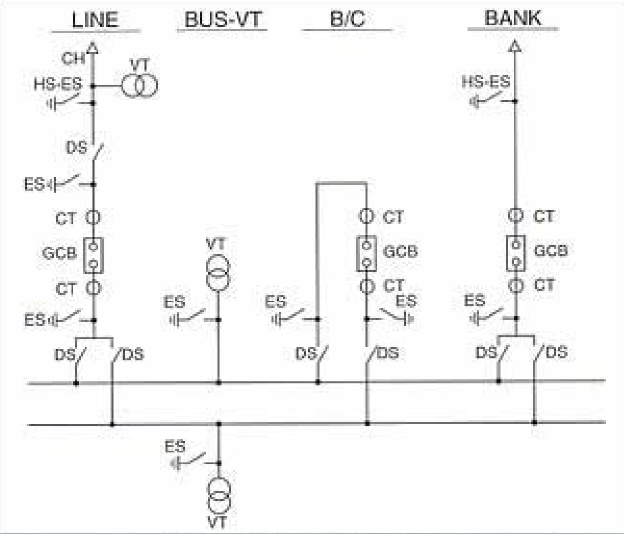


Operating Mechanism of 3 Position Type DS/M-ES

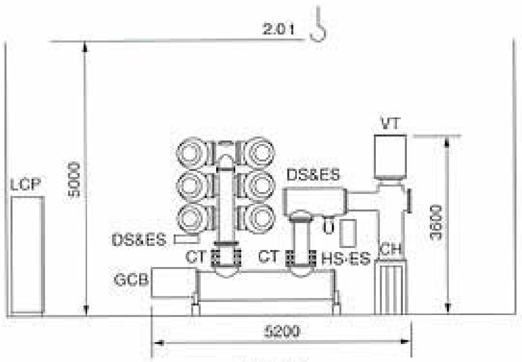


Typical Arrangement (Double Busbar System)

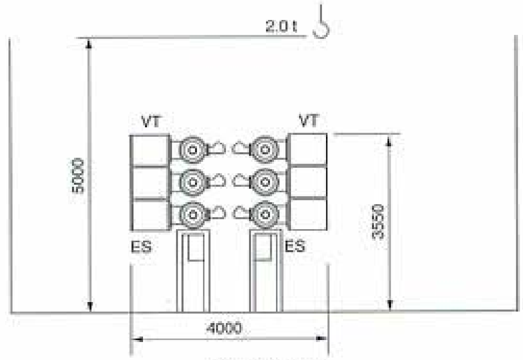




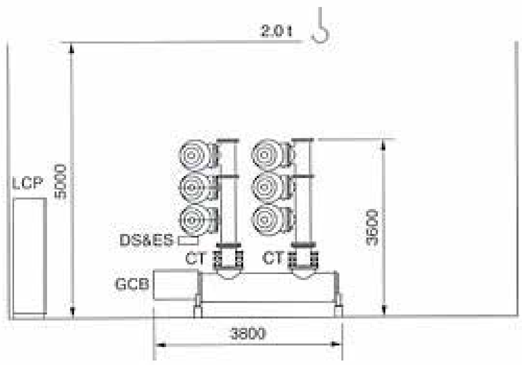
Single Line Diagram



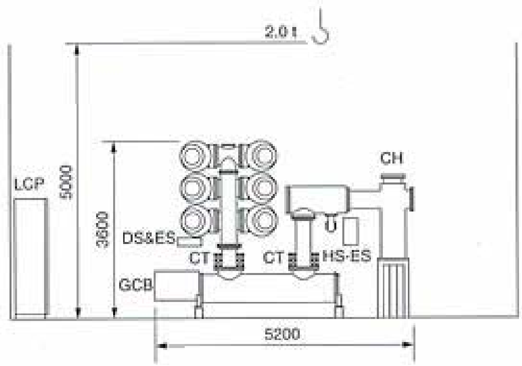
LINE



BUS-VT



B/C



BANK

Double Busbar System

TOSHIBA

TOSHIBA CORPORATION

POWER SYSTEM & SERVICES COMPANY
1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan
Tel. 03-3457-3770   Fax. 03-5444-9184

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