



Mitsui E&S Machinery Co., Ltd.

Technoservice Div.

Diesel Engine Service Dept.

Products & Services

*Abridged Edition. As relevant letter numbers are indicated in () if any, please refer to those for details.

Saving
Training
Measure
-ment
Improve
-ment
Digitali
-zation
Environ
-ment

~ Make with Heart ~

Products

Saving

Alpha Lubricator (TN029) , Eco Cam (TDP-042), Eco Nozzle (MPI0046), E-VIT (TDP-041), N2 Gas Booster (TN106), VTA P.3

COL (TN066), Derating, Slide Fuel Valve (TN037) P.4

Environment

ACOM (OWN0356), EPL (MPI0041), Main Engine Conversion, Modifications for SOx Scrubber (TN099), P.5

Improvement

DLF & Jet Assist (TN105), New Exhaust Valve Spindle/Seat (MPI0026 TN100 / TN096), Redundancy Filter (TN094) P.6

Adaptive Sea-Condition Control, Anti-loosening Function for Camshaft Coupling (TN076), Back Seat Type Indicator Valve (TN102), Crank Pin Bearing Cap Lifting Tool (TN110), Speed Control Dial Upgrade (BMS News 2015-01) P.7

Digitalization

CMAXS e-GICSX, e-GICS Advance (TN097), e-GICS (TN081) P.8

Bearing Condition Monitoring (TN080), PMI Auto-tuning (TDP-070), WIO P.9

Measurement

Digital Cylinder Gauge (TN084), MES-EPOCH (TN053), Piston Inspection Gauge (TN063), Ultrasonic Thickness Checker (TN111) P.10

Training

Maintenance DVD (MPI0039), Training Course P.11

Services

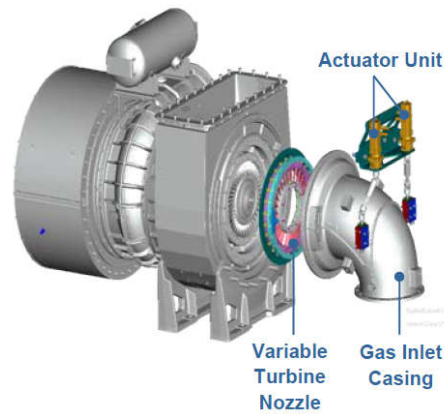
Hydraulic Oil Analysis (MPI0040), ME type Engine Maintenance Service & Onboard Training (TN089) P.12

Exhaust Valve Spindle Recondition (MPI0037), FIVA/ELFI Valve Recondition (TN095), HPS Pump Recondition, PMI Offline Sensor Calibration (TN104) P.13

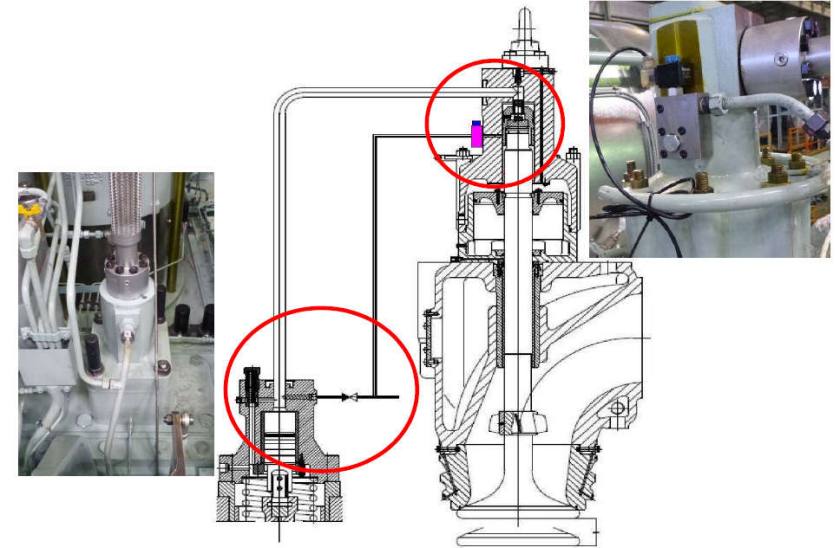
Saving



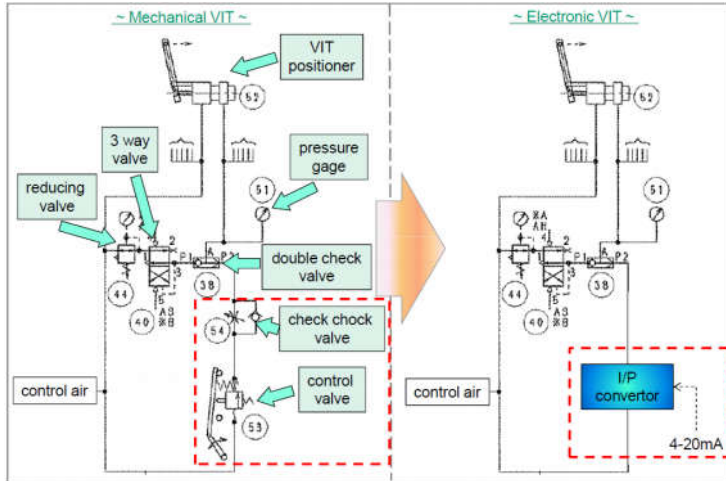
Eco Nozzle (MPI0046)



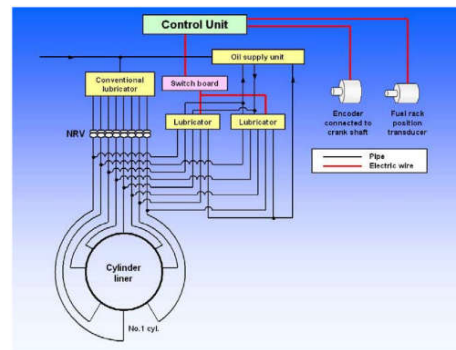
Variable Turbine Area



Eco Cam (TDP-042)



Electronic control VIT (TDP-041)

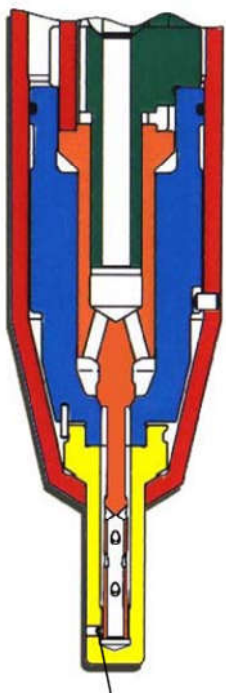


Alpha Lubricator System (TN029) *LO saving

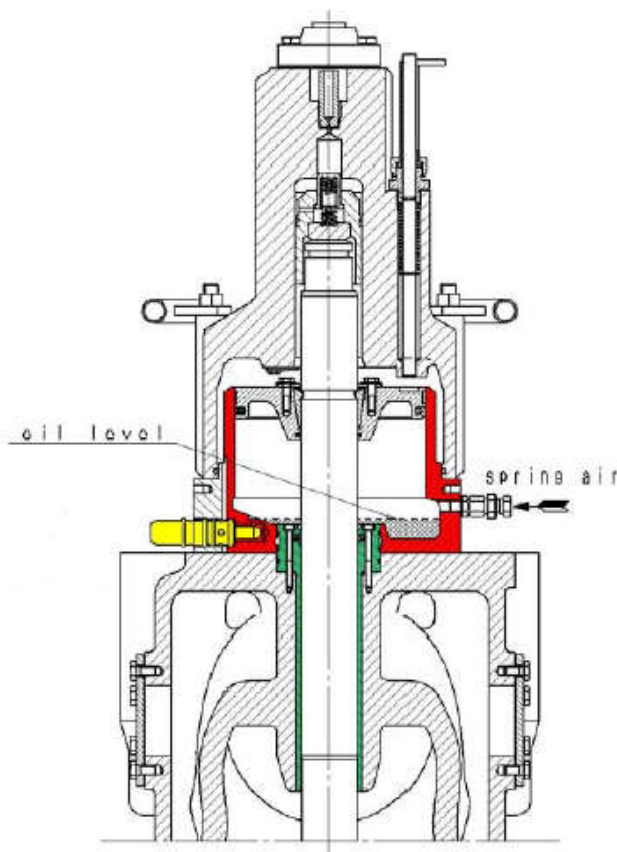
Automatic type MPI0042	Assembly type MPI0048

**N2 Gas Booster (TN106)
*Gas Cylinder saving**

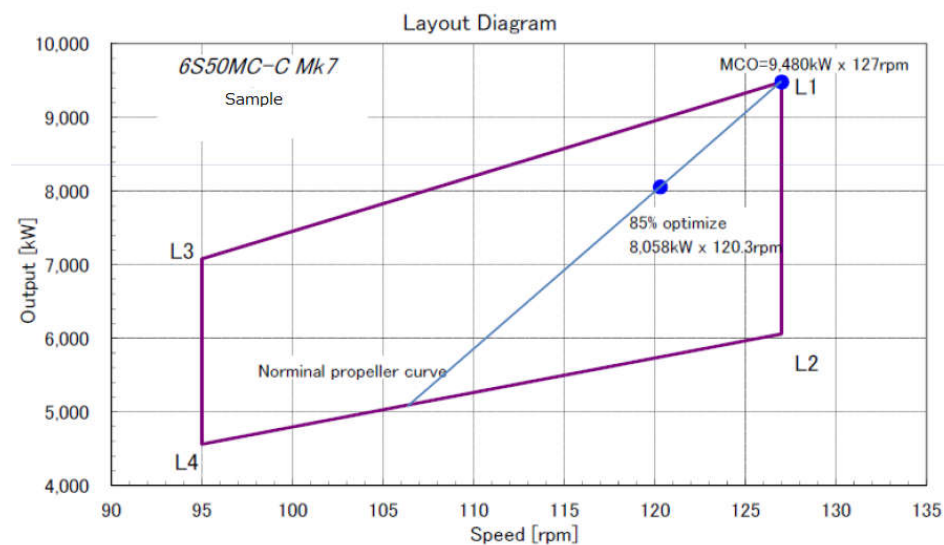
Saving (esp. Low Load Operation)



**Slide Fuel Valve
(TN037)**

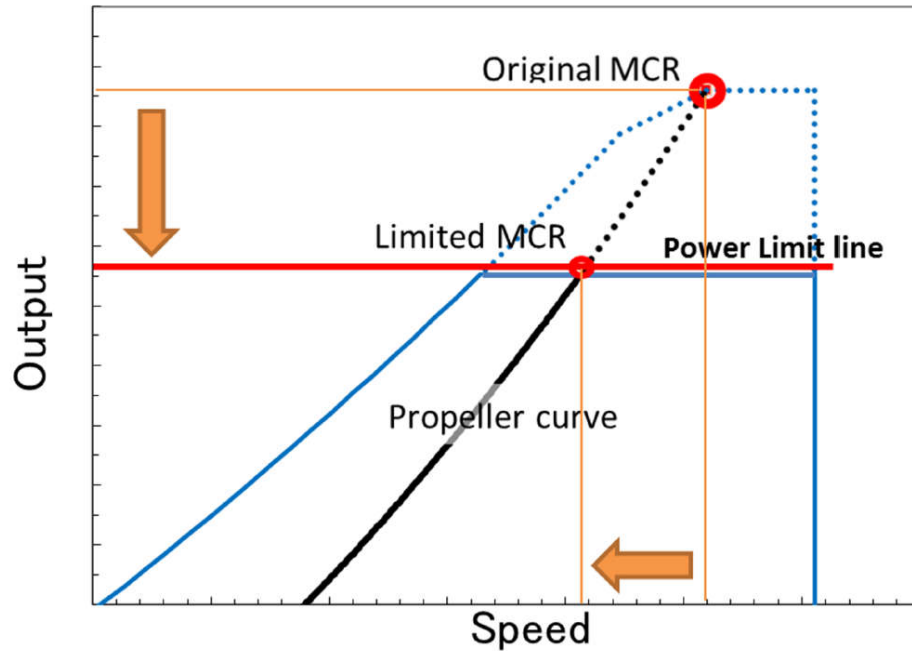


**Controlled Oil Level
sealing system (TN066)**

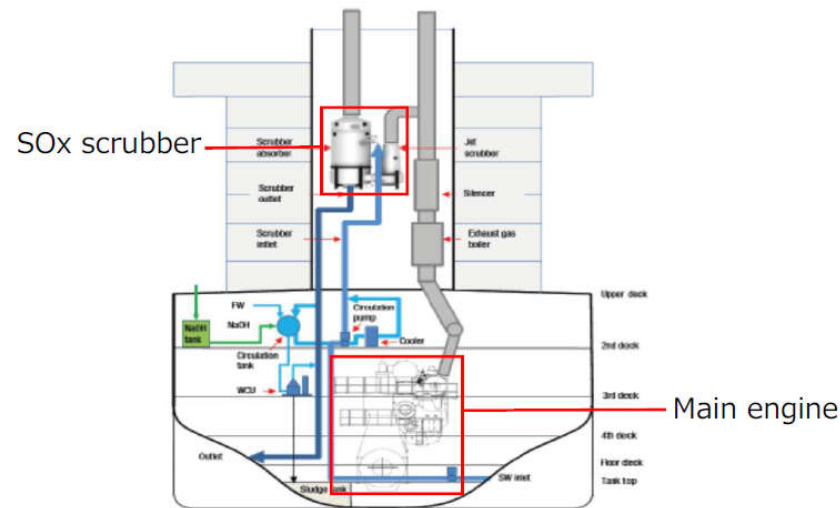


Derating

Environment



**Engine Power Limitation
(MPI0041)**



**Signal / TC modification
for SOx Scrubber (TN099)**

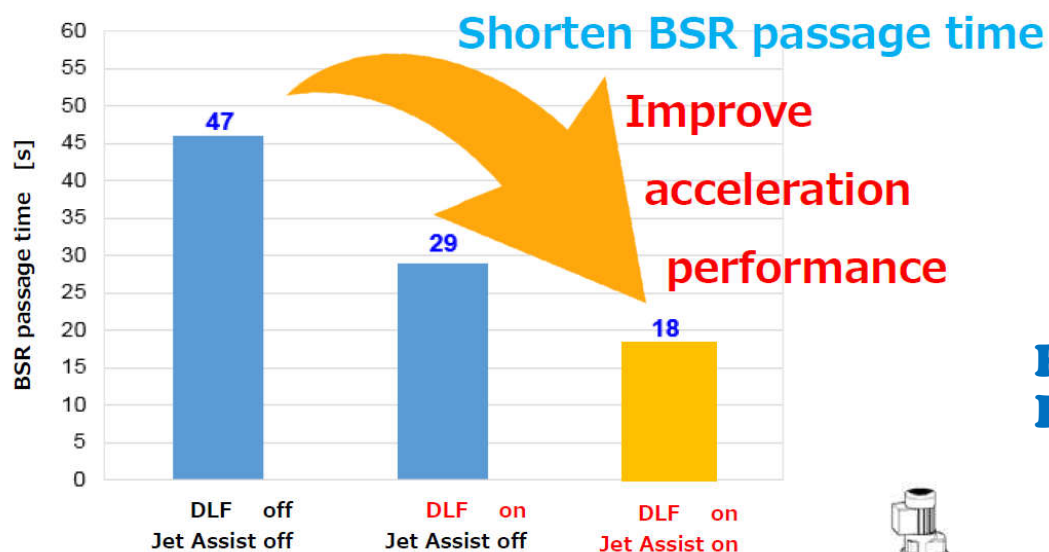
Main Engine Conversion

- From Tier I to Tier II
- From Mark 7 to Mark 8
- to Dual Fuel
- etc.



**Automated
Cylinder Oil
Mixing
(OWN0356)**

Improvement



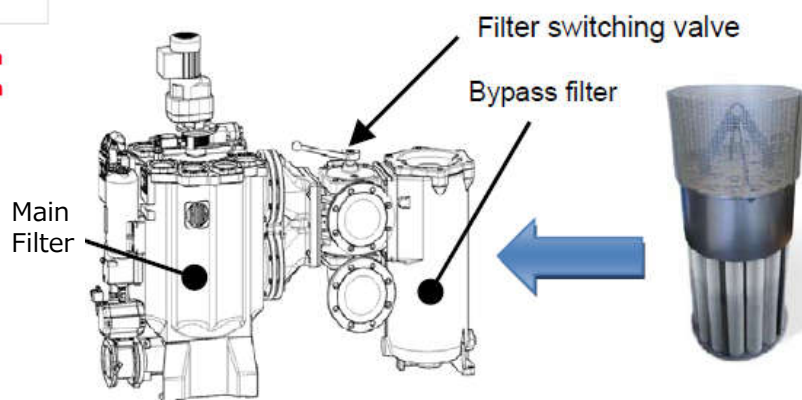
Dynamic Limiter Function & Jet Assist (TN105)

DLF standard for ME-C & ME-B

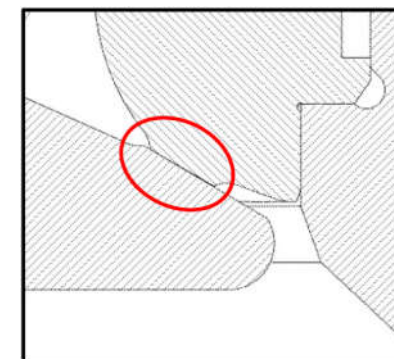
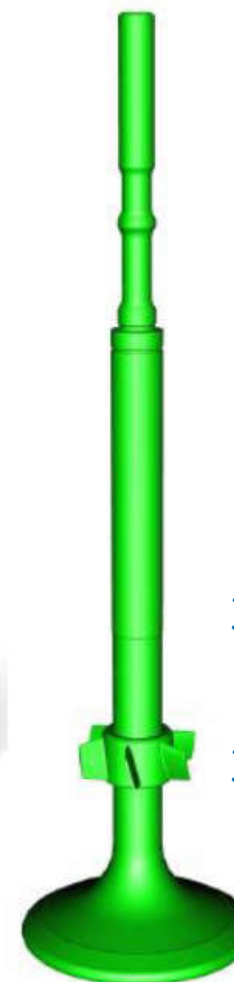
DLF Full for ME-C

DLF standard + Jet Assist for ME-B

Redundancy Filter (TN094)



New Exhaust Valve Spindle/Seat

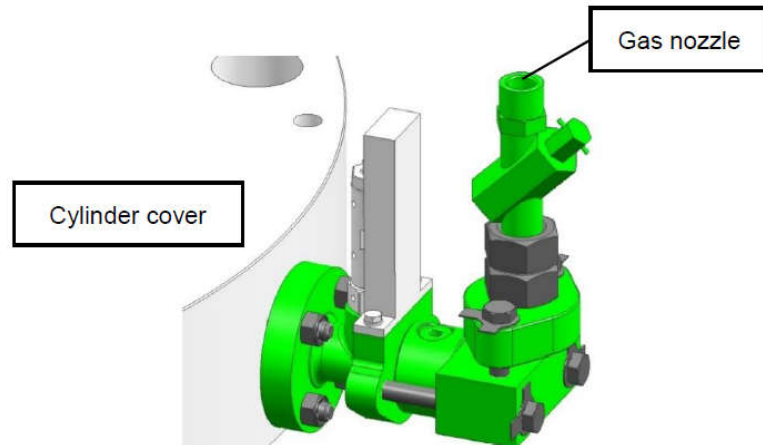


Wide-Seat (TN096)

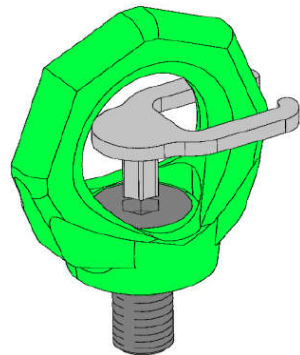
Dura Spindle (MPI0026)

DSA Spindle (TN100)

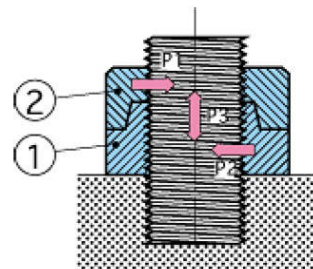
Improvement



Back Seat Type Indicator Valve (TN102)

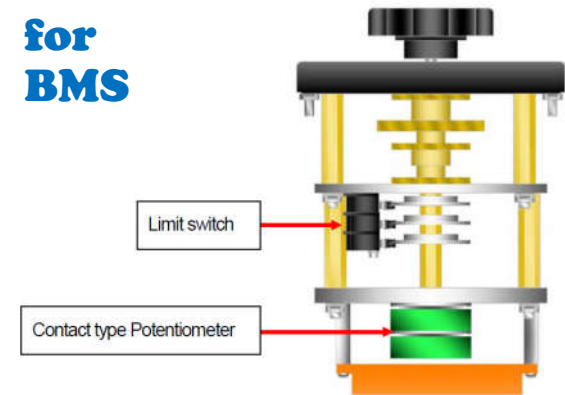


Crank Pin Bearing Cap Lifting Tool (TN110)

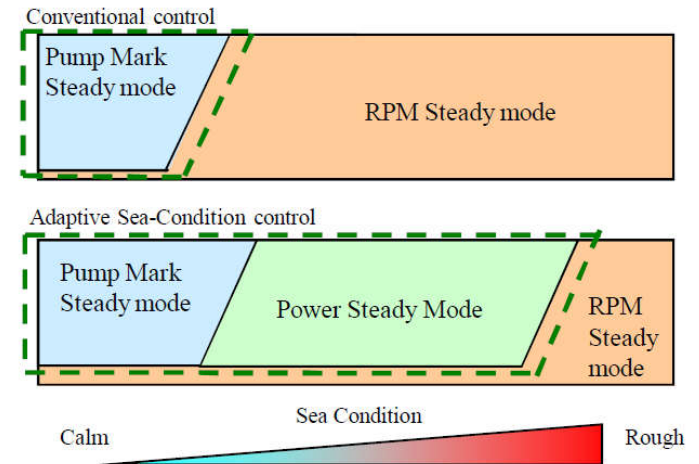


Anti-loosening Function for Camshaft Coupling (TN076)

**for
BMS**

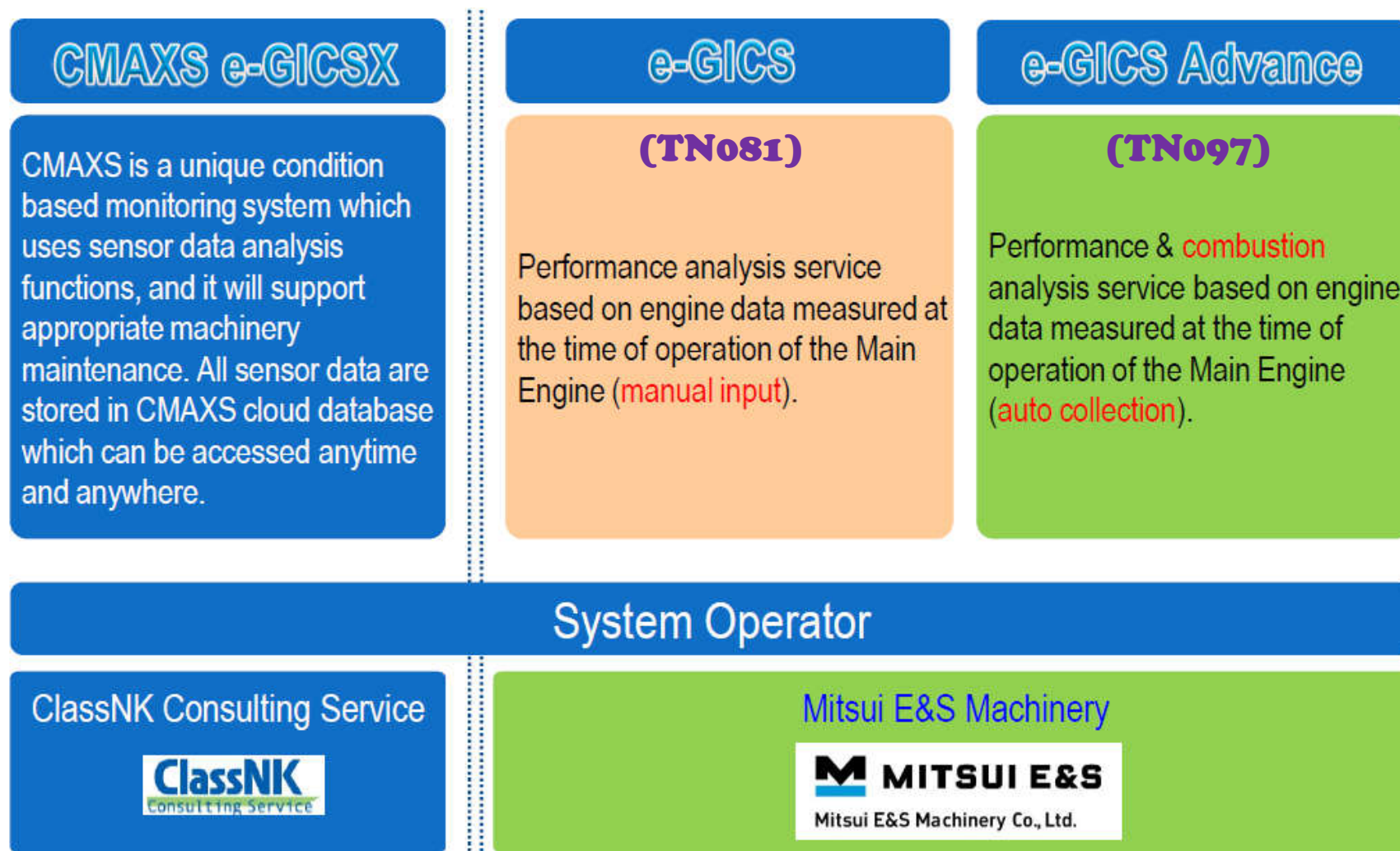


Speed Control Dial Upgrade (BMS News 2015-01)



Adaptive Sea-Condition Control

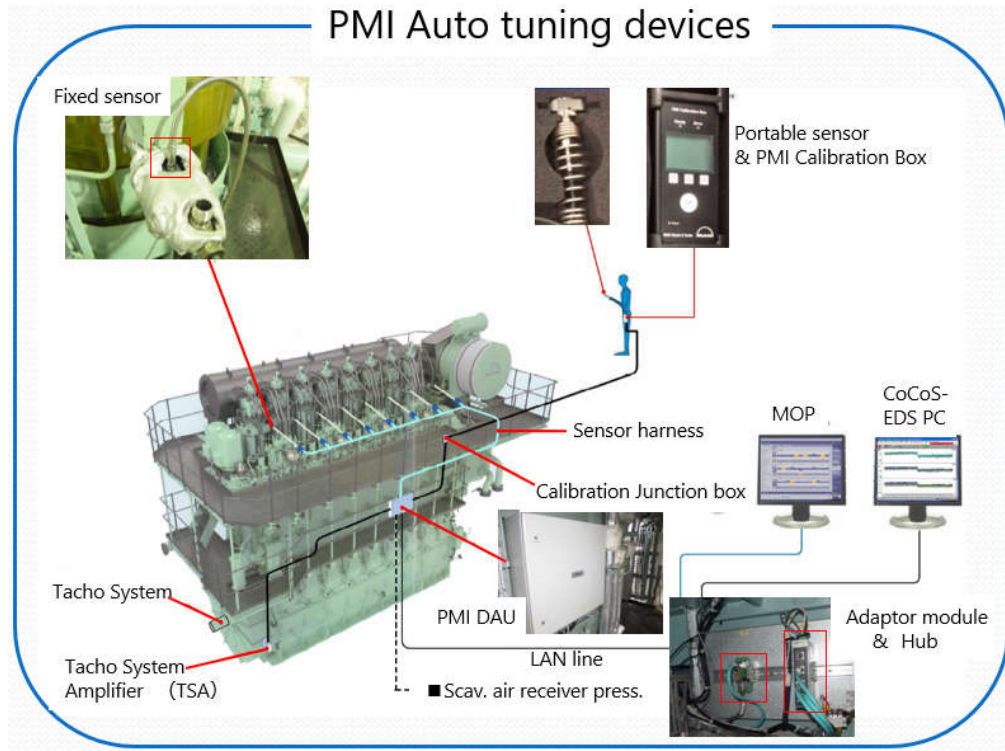
Digitalization



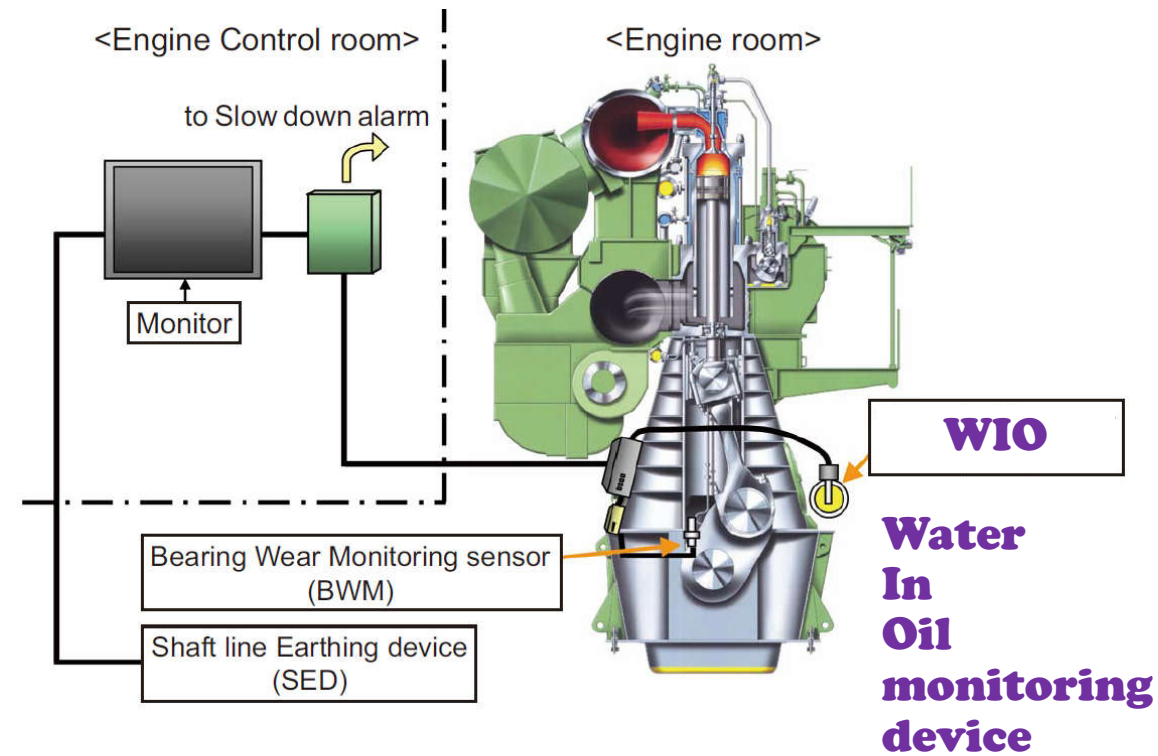
Digitalization (related products)

PMI Auto-tuning (TDP-070)

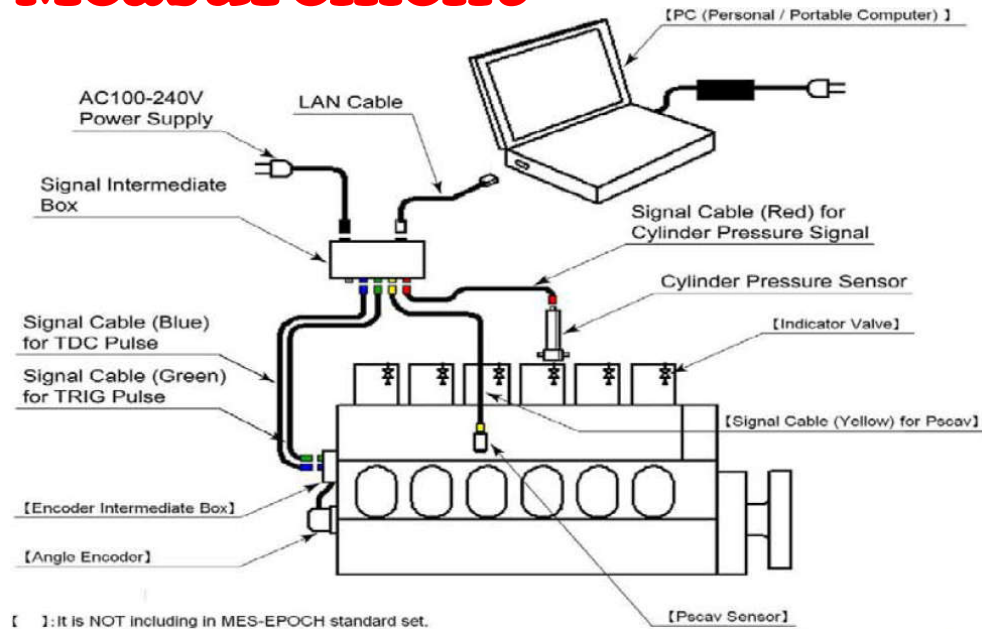
PMI Auto tuning devices



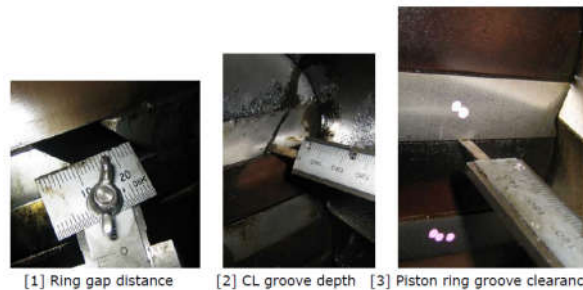
Bearing Condition Monitoring System (TN080)



Measurement

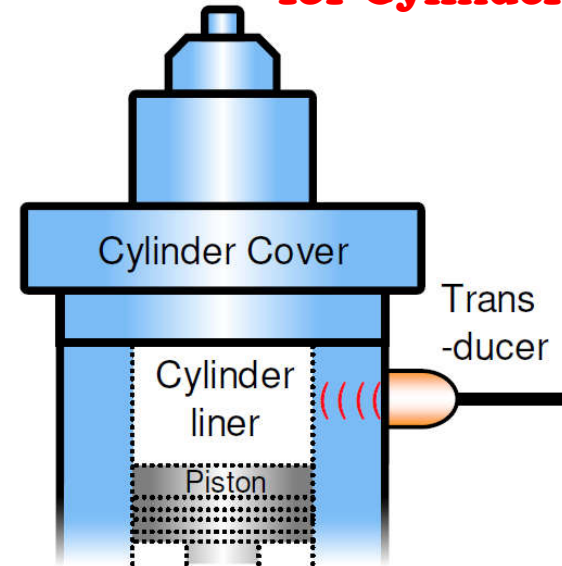


MES-EPOCH (TN053)



Piston Inspection Gauge (TN063)

for Cylinder Liner



Ultrasonic Thickness Checker (TN111)



Digital Cylinder Gauge (TN084)

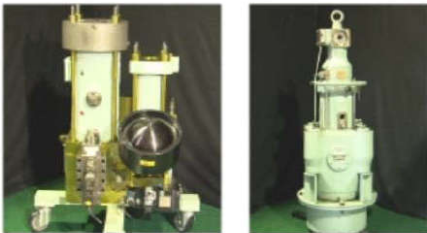
Training

Maintenance DVD for ME Components (MPI0039)

MITSUI-MAN B&W

ME-C engines

Practical Training Course



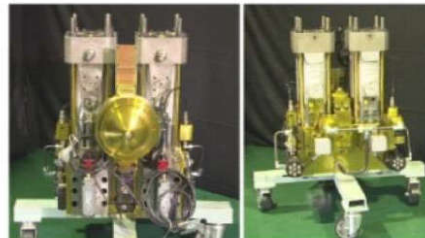
MITSUI E&S

Mitsui E&S Machinery Co., Ltd.

MITSUI-MAN B&W

ME-B engines

Practical Training Course



MITSUI E&S

Mitsui E&S Machinery Co., Ltd.

Basic Course

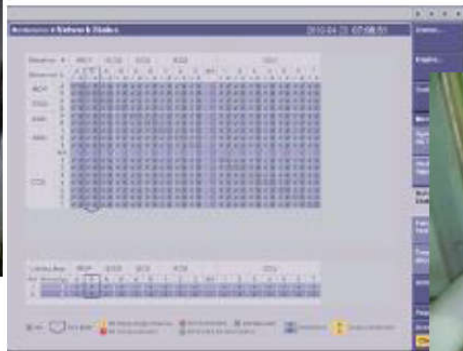


Practical Course



**And of course the practical training at our training center in Tamano Japan.
*Now ME-GI course available.**

Services

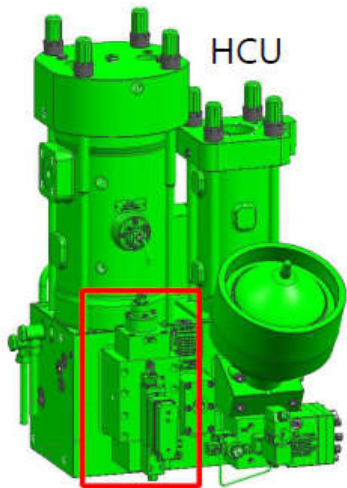


Hydraulic Oil Analysis (MPI0040)

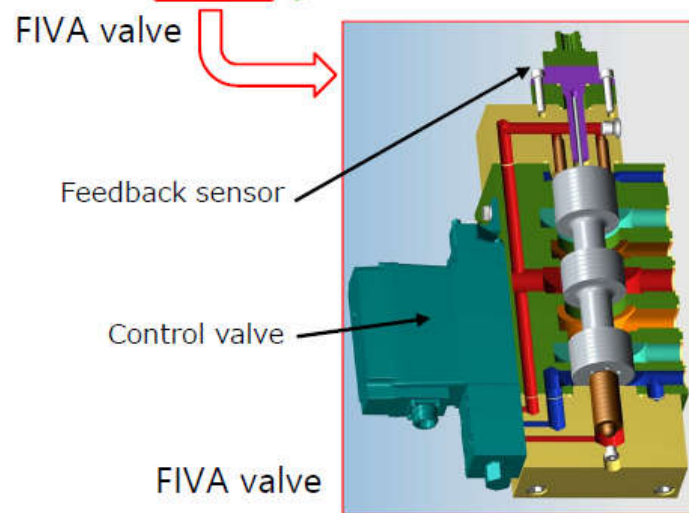


ME type Engine Maintenance Service & Onboard Training (TN089)

Services



FIVA/ELFI Valve Recondition (TN095)



PMI Offline Sensor Calibration (TN104)



Portable sensor

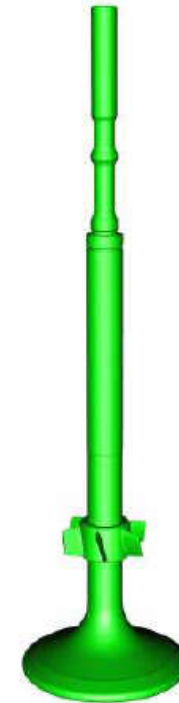


Calibration Box



HPS Pump Recondition

Exhaust Valve Spindle Recondition (MPI0037)



High Force type



Low Force type

... and more!