



TMC[®]

TAEYANG MECHATRONICS Co., Ltd.

|주| 태양기전

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I . 会社紹介

1. 概要



会社名	(株) 太陽機電 TAEYANG MECHATRONICS Co., Ltd.			代表	朴 石 培 SUK BAE PARK
所在地	釜山市 江西区 智士洞 1179-13 (本社 & 工場)			Phone	+82 51 974 0561
				Email	sales@worldtmc.com
				Web Site	www.worldtmc.com
敷地面積	3,303 m ² (1,000坪)			建坪	2,114 m ² (640坪)
創立日	1996. 03. 04	従業員	30人	主要製品	船用 Pneumatic/Electric 制御装置

2. 会社理念

私たちは
誠実と創意に基づいて
明るい未来と人間尊重を志向する
超一流企業になるために
情熱を持って責任を果たす。

"Always Moving, Always Best ...TMC®"

3. 主要沿革

2011 ~ 現在

- ◆ 2021 01 人材育成中小企業 選定 - 中小ベンチャー企業部
青年親和強小企業 選定 - 雇用労働部
- ◆ 2019 02 造船海洋機資材優秀企業 認定
— 韓国造船海洋機資材工業共同組合
- ◆ 2018 01 強小企業選定 - 雇用労働部
- ◆ 2016 06 輸出有望中小企業 選定 - 中小企業庁
- ◆ 2013 09 GWP(Great Work Place) 企業選定
- ◆ 2011 01 ISO 14001 認証

2001 ~ 2010

- ◆ 2009 11 Single PPM 品質認証 - 船舶エンジン制御装備部門
- ◆ 2007 02 地域先導企業選定 - 釜山市
- ◆ 2006 02 技術革新型中小企業 (INNO-BIZ)選定 - 中小企業庁
12 戦略産業先導企業選定 - 釜山市
- ◆ 2004 11 GL船級承認 - German船級協会
- ◆ 2002 11 CLEAN事業場認定 - 産業安全公団

1996 ~ 2000

- ◆ 1999 05 ABS船級承認 - America船級協会
- ◆ 1998 05 有望先進技術企業選定 - 中小企業庁
12 ISO 9001認証
- ◆ 1997 02 21C先導企業選定 - 中小企業庁
03 技術研究所新設
- ◆ 1996 03 太陽機電創立(船舶エンジン制御装備生産開始)

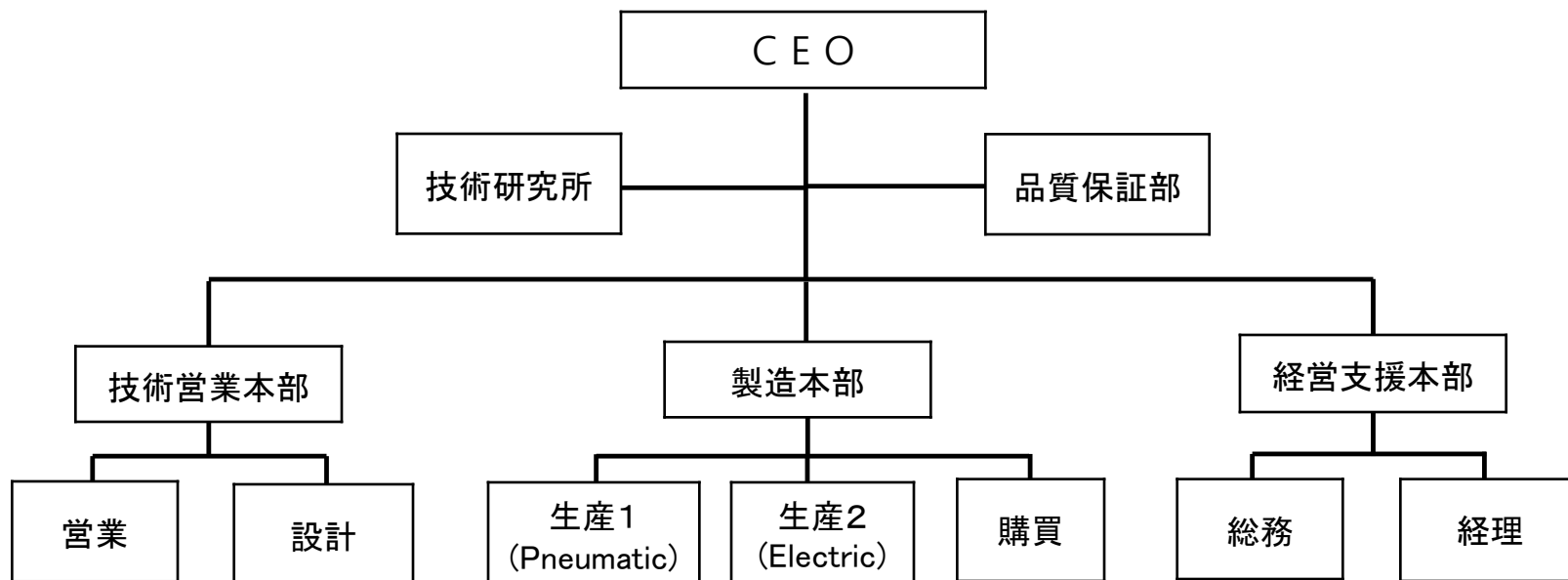
4. 受賞歴

- ❖ 2019 05 : 大統領表彰
- ❖ 2017 12 : 100万ドル輸出の塔 受賞－韓国貿易協会
- ❖ 2016 05 : 優秀中小企業 表彰－釜山市
- ❖ 2014 07 : 優秀中小企業 表彰－中小企業中央会
- ❖ 2012 04 : Single PPM 品質革新－国家産業褒章
- ❖ 2011 04 : Single PPM 品質革新－国務総理賞
- ❖ 2005 07 : 優秀中小企業人 大賞－釜山市
- ❖ 2003 04 : 優秀中小企業 表彰－科学技術部長官

5. 主要顧客



6. 組織図



区分	技 術 職 (8)			技 能 職 (11)		事 務 職 (9)			合 計
	設 計	技 術	品 証	生産 1	生産 2	営 業	購 買	支 援	
男	3	2	3	4	7	6	0	1	26
女	0	0	0	0	0	2	1	1	4
計	3	2	3	4	7	8	1	2	30

7. 品質認証及び船級証書保有現況

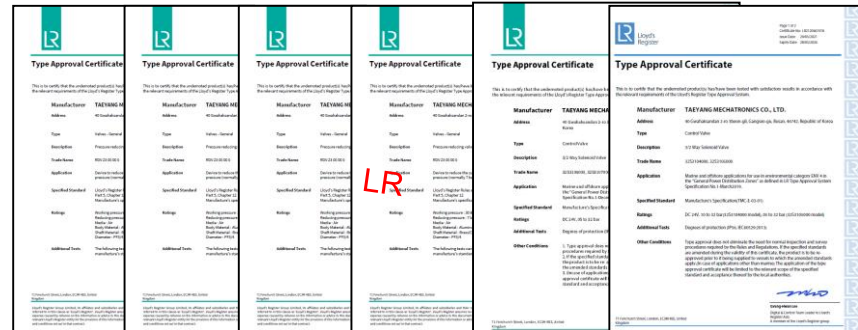
品質 認証

ISO 9001 :2015	2016. 01
ISO 14001	2011. 01



船級 認証

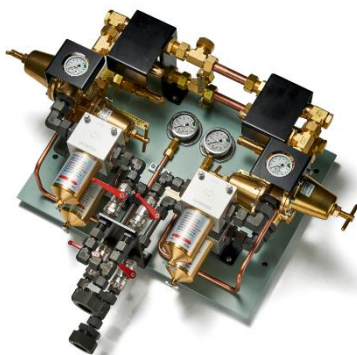
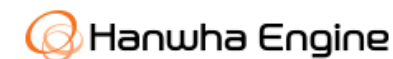
LR	6
KR	1
ABS	2
DNV	2



Ⅱ. 製品紹介

1. Pneumatic Control Systems

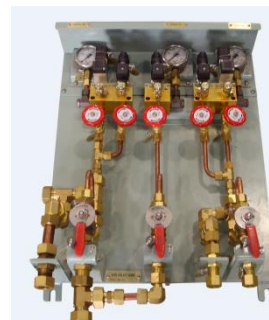
- Pneumatic Maneuvering System for MAN Engine (ME Engine)



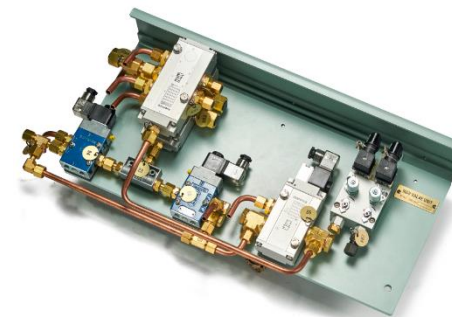
Press. Reducing Unit
(ME-C / ME-B)



PMS Unit (ME-B)



Air Supply unit (ME)



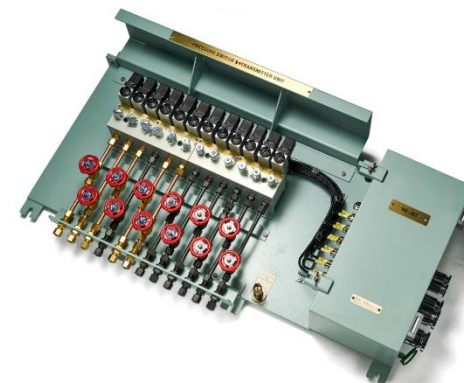
MSV Panel (ME-C)



Emergency Console (ME-B)



MSV Unit (ME-B)



PT&PS Sensor unit (ME / MC)
(Sensor Maker : Danfoss)

1. Pneumatic Control Systems

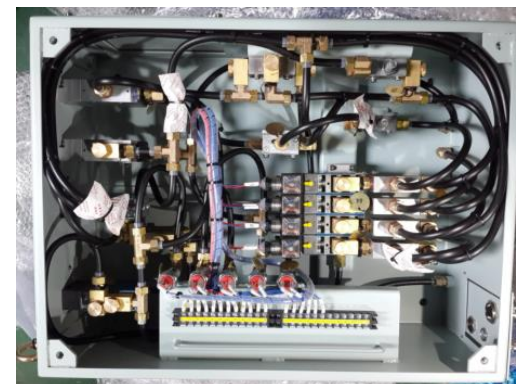
- Pneumatic Maneuvering System for MITSUI E&S (ME-C & ME-B)



PANEL-1 (ME-C / ME-B)



STARTING PANEL (ME-C)



UNIT BOX (ME-B)

1. Pneumatic Control System

▲ Pneumatic Maneuvering System For WIN GD

 **HD** HYUNDAI
HEAVY INDUSTRIES

 Hanwha Engine



Air Supply unit (RTF)



Press. Sensor Unit (RTA)



Press. Gauge Unit

2. Electric Control Systems

- 消火装備 System



Water Mist Local Pump Starter Panel

2. Electric Control Systems

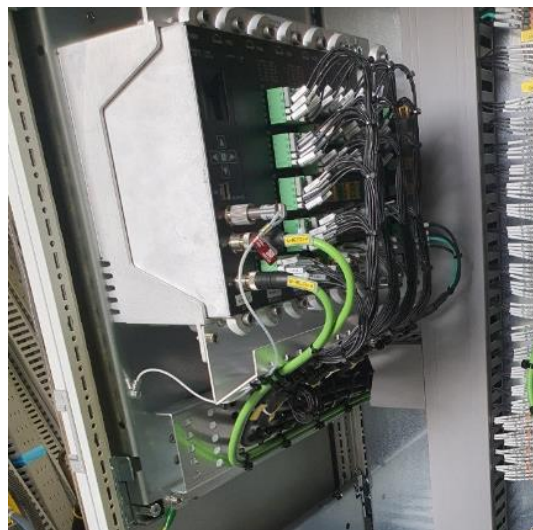
- Engine Control Cabinet for Triton [ECC1/ECC2]



2. Electric Control Systems

- Engine Interface Control Cabinet for Triton [EICC]

 Hanwha Engine



[Triton]



[Ethernet Switch]

2. Electric Control Systems

- Vibration Monitoring System [VMS]

SKF

2. Electric Control Systems

- Maneuvering Handle



TM-MN-150E-5R1

- 1) Working Temp.
: -20 ~ 70°C
- 2) Operating Voltage
: DC24V
- 3) Output
: 0~5KΩ / 4~20mA



TM-MN-150E-5R1N

- 1) Working Temp.
: -20 ~ 70°C
- 2) Operating Voltage
: DC24V
- 3) Output
: 0~5KΩ



TM-MN-150E-7N

- 1) Working Temp.
: -20 ~ 70°C
- 2) Operating Voltage
: DC24V
- 3) Output
: 4 ~ 20mA

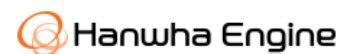


TM-MN-TB-1

- 1) Working Temp.
: -20 ~ 70°C
- 2) Operating Voltage
: DC24V
- 3) Output
: 0 ~ 10V DC

4. PNEUMATIC VALVE

- 3/2 Way Solenoid valve for Starting Air Valve (ME Eng. Ver.10.5/9.6~)



1) 60~95ME Type (32S 31 04 00 0)



2) 50ME Type (32S 31 05 00 0)



DECLARATION OF CONFORMITY	
■ MANUFACTURER : We, Taeyang Mechatronics Co., Ltd. 40, Gwahaksandan 2-ro 3beon-gil, Gangseo-gu, Busan 46742 REPUBLIC OF KOREA	
■ Product : 3/2 Way Solenoid Valve ■ Model/Type : 32S3104000, ■ Tested Standard : EN 61010-1 EN 61010-2	
2014/35/EU LOW	
We hereby declare that the above max Voltage Directive 2014/35/EU for electrical equipment is retained under the premise	
■ NOTIFIED BODY : TÜV SÜD Pro	
The CE marking may be used if all relevant and	
Page 1 of 2 Certificate No: 1821266741A Issue Date: 29/05/2021 Expiry Date: 28/05/2026	
Type Approval Certificate	
This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.	
Manufacturer	TAEYANG MECHATRONICS CO., LTD.
Address	40 Gwahaksandan 2-ro 3beon-gil, Gangseo-gu, Busan, 46742, Republic of Korea
Type	Control Valve
Description	3/2 Way Solenoid Valve
Trade Name	32S3104000, 32S3105000
Application	Marine and offshore applications for use in environmental category EN4 in the "General Power Distribution Zones" as defined in LR Type Approval System Specification No.1-March2019.
Specified Standard	Manufacturer's Specification(TMC-E-03-01)
Ratings	DC 24V, 10 to 32 bar(32S3104000 model), 05 to 32 bar (32S3105000 model)
Additional Tests	Degrees of protection (IP56, IEC60529:2013)
Other Conditions	Type approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply (in case of applications other than marine). The application of the type approval certificate will be limited to the relevant scope of the specified standard and acceptance thereof by the local authorities.
71 Fenchurch Street, London, EC3M 4BS, United Kingdom	
Granting Member Name Digital & Control Team Leader to Lloyd's Register Asia A member of the Lloyd's Register group	
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4. PNEUMATIC VALVE

- 3/2 Way Solenoid valve (WinGD Engine)



1) x52 Type
(32S 31 06 00 0)



2) x62 and above Type
(32S 31 07 00 0)



5. Agency

Danfoss



明陽電機株式会社
MEIYO ELECTRIC Co., Ltd.



ご清聴ありがとうございました。

TAEYANG MECHATRONICS CO.,LTD

ON THE FOUNDATION HONESTY AND CREATIVITY,
WE HAVE PASSIONS AND RESPONSIBILITY TO ACHIEVE THE WORLD BEST COMPANY
THAT SEEKS A BRIGHT FUTURE AND RESPECT FOR HUMAN LIFE AND DIGITY

TMC

