



[www.heartman.co.kr](http://www.heartman.co.kr)

Since  
1999



**HEARTMAN**

**본 사 • 공 장**

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# FUEL INJ ECTION ENGINE PARTS

**HEARTMAN**



# customer First

Prioritize customer's satisfaction  
through the assurance of  
the highest quality.



PERSON

FUTURE

TRUST

VALUE



# ABOUT US

HEARTMAN Co., Ltd. was established as a company manufacturing the injection equipment for marine diesel engine in November 1999. Our company had took over craftsmanship of SHINSUNG DIESEL KIKI Co that established at 1965. Our company also has accumulated the precision processing technology and implemented advanced production facilities for more than 20 years.

With such technology and facilities, we have provided essential parts of small, medium(4-stroke), and low(2-stroke) speed marine diesel engine, including nozzle, plunger assy, F.O. exhaust & intake cam, and fuel valve & pump assy to domestic and foreign fisheries, shipping companies, power plants, and others.

Through such achievement, we have been recognized as a leading company providing high quality products.

# HISTORY

1999

November 24

**Establishment of HEARTMAN Co., Ltd.**

주식회사하트만 설립

2000

May

**Supplied Assy for High speed turbo engine MTU 20V 538 to Korea coast guard**

고속엔진용 MTU 20V 538 플란저 조립체 해군에 373세트 납품 (STX Engine)

2001

October

**Acquired quality management system as per ISO 9001:2009 certification.**

ISO 9001 품질경영시스템 인증

2006

June

**Acquired environmental management system as per ISO 14001:2004 certification.**

ISO 14001 환경경영시스템 인증

2008

December

**Approval of Corporate R&D Center by KOITA (Korea Industrial Technology Association)**

부설기술연구소 인정

2012

March

**Supplied STX NIIGATA 34HLX Engine Plunger Assembly 600 sets to NIP (Nico Presision) for IRAQ power plant**

이라크 발전용 STX NIIGATA 34HLX 플란저 조립체를 일본 NIP 업체에 600세트 납품

2012

July

**Purchasing agreement with Robert Bosch GmbH**

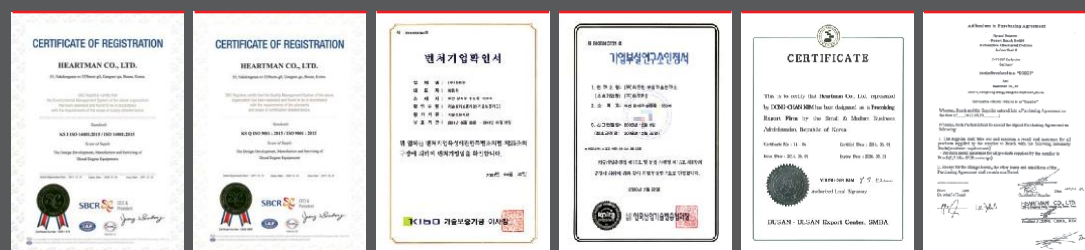
로버트보쉬 협력업체 등록

2015

November

**Relocation for expansion of HEARTMAN Co., Ltd.**

**(55, Nakdongnam-ro 533beon-gil, Gangseo-gu, Busan, Korea)**  
주식회사하트만 본사 및 공장 확장이전 (부산시 강서구 낙동남로 533번길 55)



ISO 14001:2004  
인증서

ISO 9001:2008  
인증서

벤처기업확인서

기업부설연구소  
인정서

수출유망중소기업  
지정증

BOSCH PURCHASING  
AGREEMENT

# SMART FACTORY SYSTEM

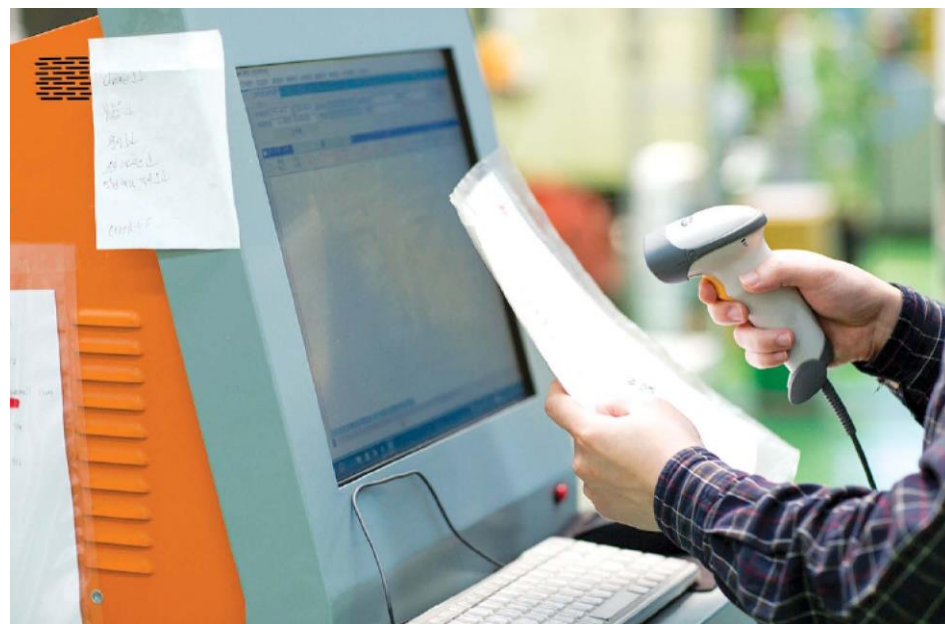


## Point 1 The Paperless factory

The Barcode system greatly facilitates an easier and more efficient way of checking status of work, making changes immediately, and managing production schedules.

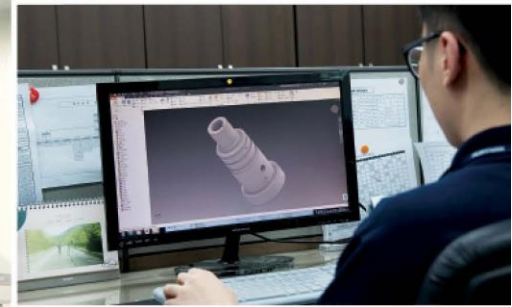
## Point 2 The Systematic management of BOM (Bill Of Material)

By giving authentication number to all materials, work-in-process, and production process, we can not only check the progress of the production at a glance but also manage and control the optimum inventory.



# QUALITY CONTROL

With skilled personnel, state-of-the-art precision measurement equipment, and ISO quality management system, He artman always provides the highest quality product.



# QUALITY TEST

To ensure the perfect quality of products, we are fully equipped with inspection facilities and produce our products with integrity.



Heartman has produced diesel engine parts with a technical know-how accumulated over 20 years. We are dedicated to creating products that always satisfy our customers.

\*Note : Heartman products have no concern with Genuine engine parts and not certified by IMO



Machining  
(CNC Lathe+MCT+Drilling)

## ENGINE TYPE

Fuel Injection engine parts suitable for **MAN L+V 27/38 & L+V 32/40 type**

\*Note : Heartman products have no concern with Genuine engine parts and not certified by IMO



## ENGINE TYPE

Fuel Injection engine parts suitable for **MAN L+V 48/60 type**

\*Note : Heartman products have no concern with Genuine engine parts and not certified by IMO



## PROCESSING

Heat Treatment

# PRODUCT

PRODUCT

## ENGINE TYPE

Fuel Injection engine parts suitable for **MAN L+V58/64type**

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## ENGINE TYPE

Spindle Guide Assembly suitable for **Man B&W MC/MC-C 2-Stroke Engine**

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## New Version (Slide Type)



26/35/42MC

50/60/70MC

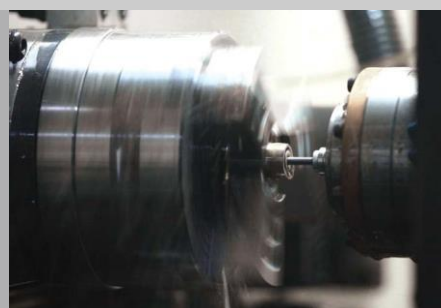
80/90MC

## Old Version (Conventional Type)



26/35/42MC




45GFCAI 50/60/70MC MARK(I, II, III)



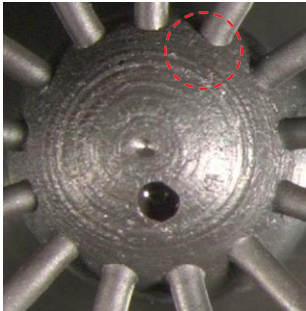
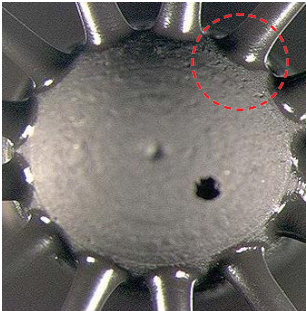
## PROCESSING

Grinding & Honing

PROPERTIES OF SPECIAL COATINGS

Coating Material	Titanium (TiN)	Tungsten(WCC)	Diamond(DLC)
Microhardness (HV 0.05)	2,300	1,500 / 1,000	2,500
Friction coefficient against steel (dry)	0.4	0.1 - 0.2	0.10 - 0.20
Max. service temperature (°C/ °F)	600 / 1,100	300 / 570	350 / 650
Coating colour	gold-yellow	anthracite	black
Photo			
depends on application and test conditions	The titanium nitride coating is where it all started - and it remains a proven and versatile standard coating. It provides effective protection against abrasive and adhesive wear. It is often applied for its decorative effect or as a wear indicator.	Tungsten Coating, with its low coefficient of friction and good sliding properties, is deployed mainly to reduce adhesive wear (scuffing, seizing, cold-welding) and can also withstand high loads at deficient lubrication or dry running. Surface fatigue(pitting) and tribo-oxidation (fretting corrosion) are largely prevented. Expensive base materials can often be replaced with less expensive steel. WCC Coating is bio-compatible and foodstuff-neutral.	DLC Coating is a carbon coating (diamond-like carbon) with an unusually dense structure. It combines high hardness with an extremely low frictional coefficient and thus gives particularly good protection against abrasive and adhesive wear, even with minimal quantity lubrication or dry working. The compact coating also improves corrosion resistance. DLC Coating is certified for use in the food processing industry.

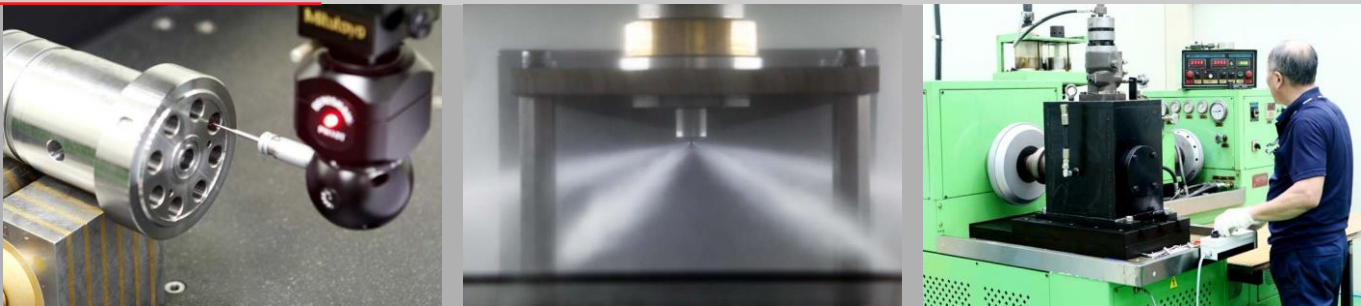
FLUID GRINDING & FLOW VOLUME TEST FOR NOZZLE SPRAY HOLE

	Before Grinding	After Grinding	Result
Picture (B&W L32/40 type)			Edge"R" Creation
Flow Volume (Spec:12,920 ~ 13,720ml/min)	9,500 ~ 10300ml/min	13,290 ~ 13,350ml/min	Flow increases by 30-40%
Grinding Time	250sec/ea		
Effect of Fluid Grinding	The deviation of flow decreases [Spec: 13,290 ~ 13,350ml/min]		

PROCESSING Fluid grinding & Flow test



PROCESSING Test





20년을 넘어서 50년의 역사를 향해 나아가고 있는 하트만(Heart+Man)은

정밀부품제작의 기술력으로 탄탄하게 다져진 기업이며, 수출 법인 브랜드로서 made in korea의 품질을  
세계속에 확인시킨 기업입니다.



#### IMPORTANT NOTICE

The products reported in this catalogue are not the genuine parts.  
The items mentioned in this catalogue are of our own brand and they are interchangeable  
with the genuine parts. The genuine codes are exclusively reported for cross reference only.