



NARIMUNE

Narimune Manufacture Co.,Ltd.

Narimune Techno Engineering (Thailand) Co.,Ltd.



CORPORATE OUTLINE

Company name : NARIMUNE MANUFACTURE Co.,LTD.

Head Office: 1-26-8 Nishi-Narita Ku-Suginami TOKYO 166-0016

TEL/FAX: 03-3311-7175

email : honsha@narimune.co.jp

<https://www.narimune.co.jp>

Kawagoe Factory: 787 Nakakosaka Sakado-city Saitama 350-0206

TEL: 049-281-0481

FAX : 049-281-0475

email : saitama@narimune.co.jp

Established : 1, Jun, 1961

Capital : ¥10,000,000-

President : Yoshio Suzuki

Number of directors : Three directors





CORPORATE OUTLINE

Company name : Narimune Techno Engineering (Thailand) Co., Ltd.

Address : 252/449 , 21th floor, Muangthai Phatra Tower1
Ratchadapisek Rd.,Huaykwang Bangkok. Thailand

Tel. +66-2-693-4480-2 Fax. +66-2693-3398

Website : www.narimune.co.th

E-mail : info@narimune.co.th

Established : 26 January , 2001

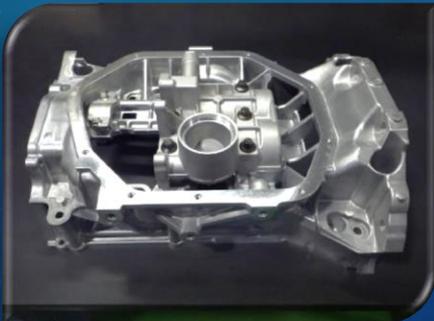
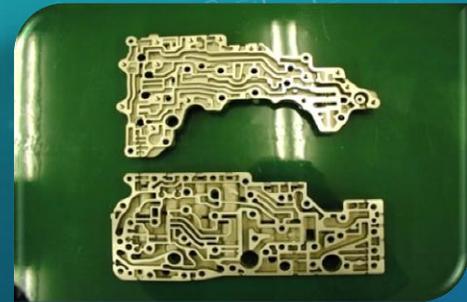
Capital : 4,000,000 Baht

Owner : Mr. Yoshio suzuki

Employee : 19 people (14 Engineers)



Sample Parts



MEASUREMENT EQUIPMENT LIST

▼ Coordinate Measuring Machine

- Crysta ApexC9106 Mitutoyo XYZ 900 × 1000 × 600 mm
 Probe system PH10MQ+TP200
- Crysta ApexS 121210 Mitutoyo XYZ 1200 × 1200 × 1000 mm
 Probe system PH10MQ+TP200+SurfaceMeasure 1010
- Falcio Apex 916 Mitutoyo XYZ 900 × 1600 × 600 mm
 Probe system PH10M+TP200+SP25M+SurfaceMeasure 610

▼ Colour Measurement Contracer

- CV-3100H4 Mitutoyo XZ 100 × 500 mm

▼ Surface Texture Measuring Instrument

- SURFCOM 130A TOKYO SEIMITSU

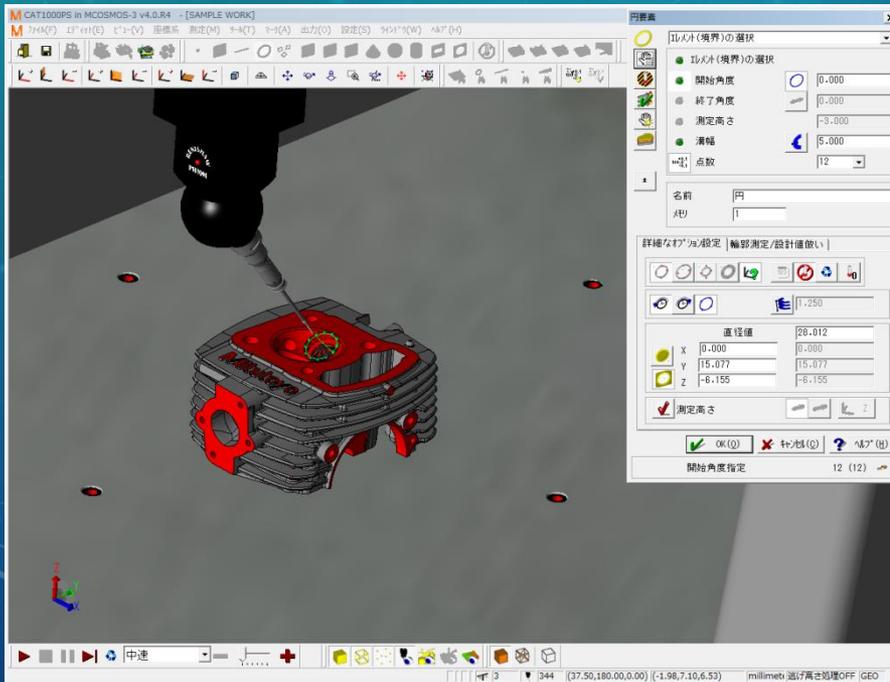
▼ OTHER

- Caliper, Micrometer, Height Gage, Bore Gage and etc.



Product quality guarantee system.

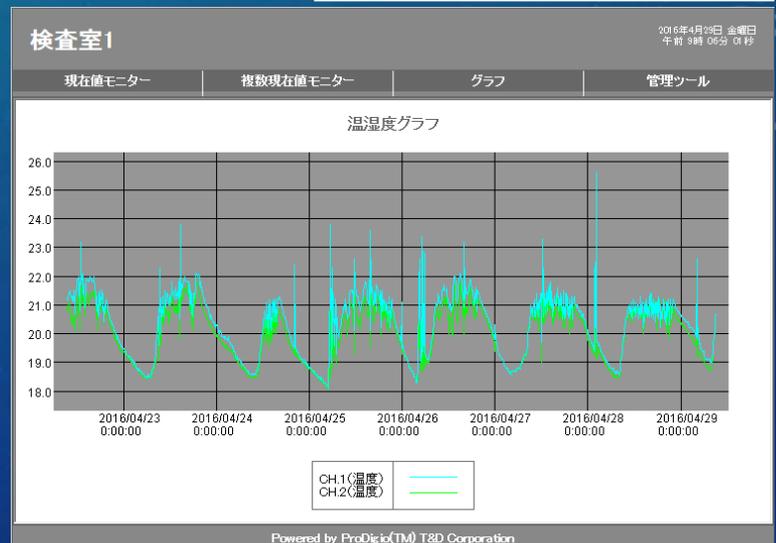
- 3D model data check
- Comparing 3D models with 2D blueprints
- Preparing the automatic measuring program from 3D models beforehand
- 24 hour temperature monitoring system
- Intra-company 3D measurement standards
- Automatic assessment system for data inspection (independent development))



2-4: 三次元測定ポイント

三次元測定における測定ポイントの決定方法は、図1-1の順序により図2-4の順序で決定される。図2-4の順序は、図1-1の順序に従って決定される。

測定項目	測定条件	測定方法	測定結果
点測定	1点 2点 3点	1点 2点 3点	1点、2点、3点の位置を測定する。図2-4-1の順序に従って測定する。
線測定	1線以下 2線以上	1線 2線以上	1線、2線以上の位置を測定する。図2-4-2の順序に従って測定する。
円測定	1円以下 2円以上	1円 2円以上	1円、2円以上の位置を測定する。図2-4-3の順序に従って測定する。
面測定	1面以下 2面以上	1面 2面以上	1面、2面以上の位置を測定する。図2-4-4の順序に従って測定する。
体測定	1体以下 2体以上	1体 2体以上	1体、2体以上の位置を測定する。図2-4-5の順序に従って測定する。



Installing the modeling probes.

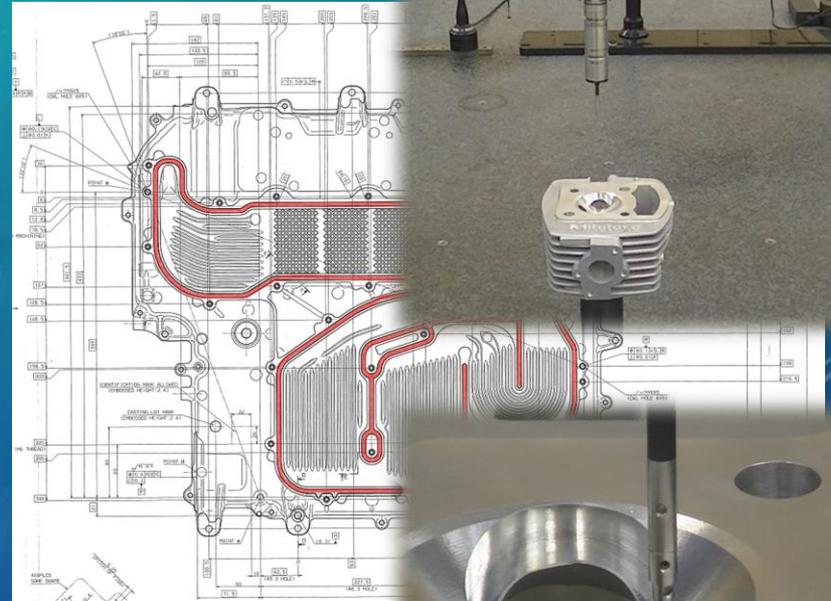
Before to installation

- There are a lot of geometric tolerances on the contours.
- Much workload is needed for program making and measuring.
- Could not assess as contours.



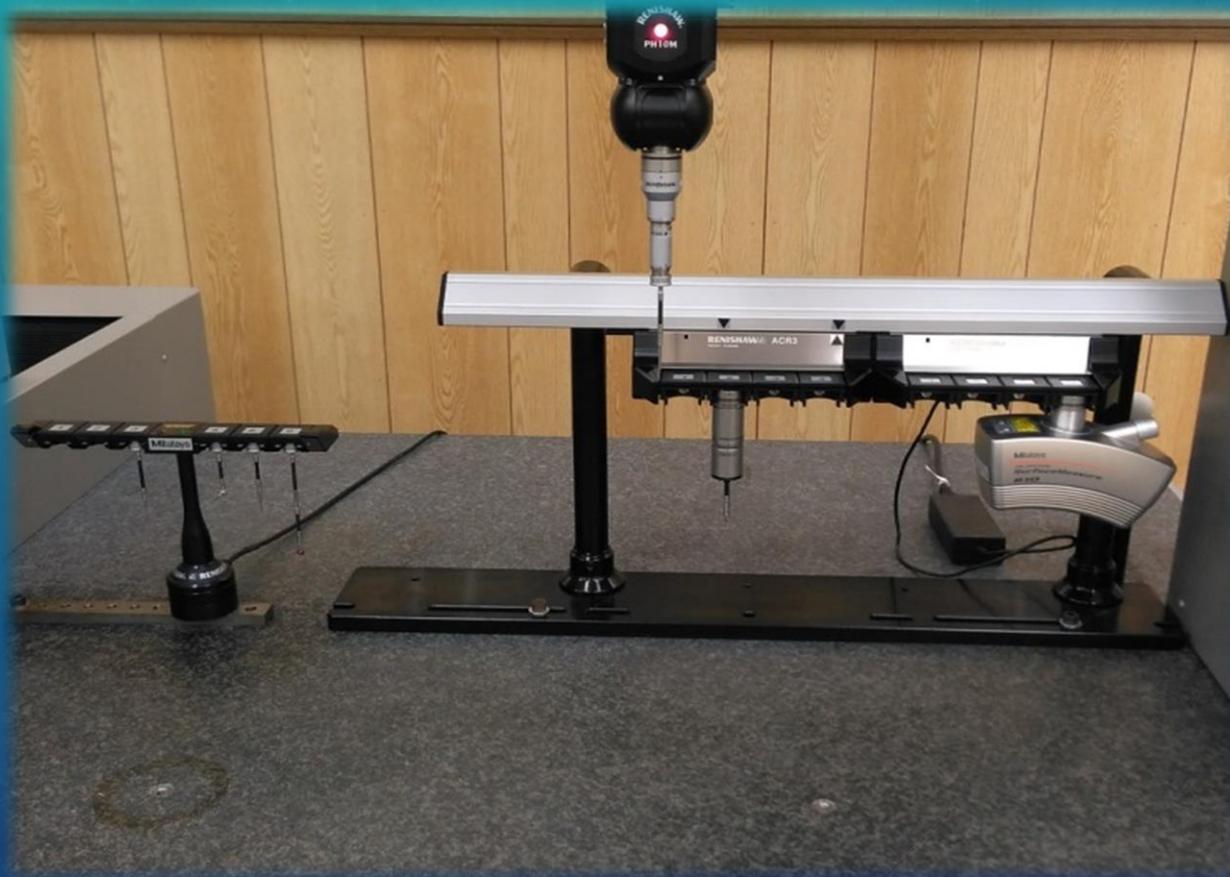
After the installation

- Simplification of program making.
- Huge reduction in workload of measurement.
- Comparison with 3D models and assessment.



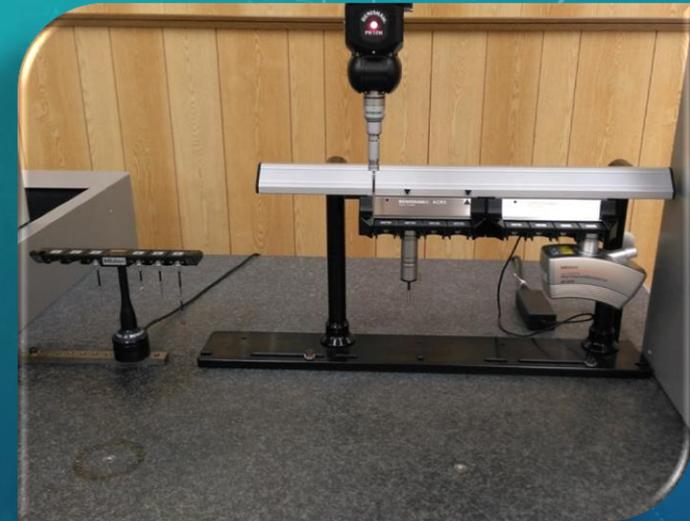
Probe Automatic Exchange System

- No need for probe exchange processes.
- Enabling dimensional/shape measurement in one chuck.
- Measurement and assessment that utilizes specialties of each probes.



Complex measurement system

- No need for probe exchange processes.
- Enabling dimensional/shape measurement in one chuck.
- Measurement and assessment that utilizes specialties of each probes.



Product quality could be achieved at production site.

	2011	2012	2013	2014	2015
Number of inspections	595	849	711	680	833
Passing	321	493	361	436	496
Failing	274	356	350	244	337
Reject ratio	46%	42%	49%	36%	40%
Number of items	164	223	228	238	244
Number of total processings	3896	4855	4092	4267	5924



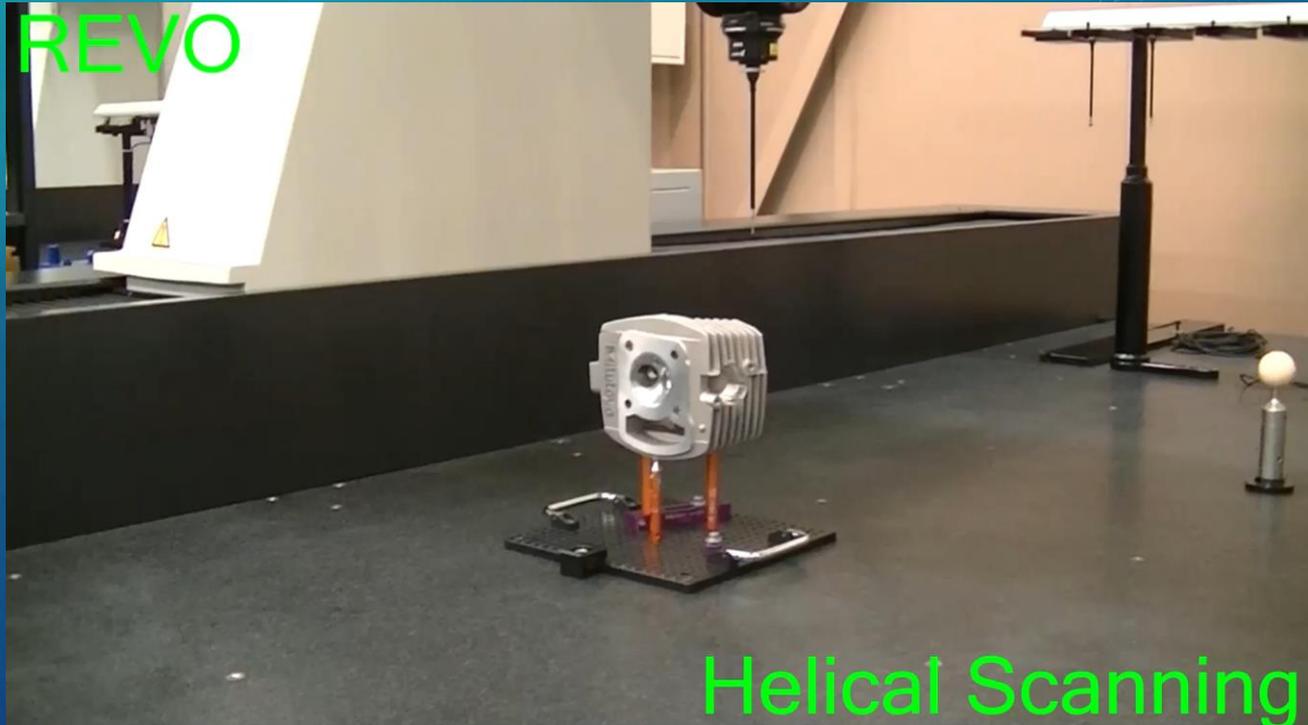
Strict self-inspection at production site

Aiming for zero fail rate!

It is important to increase consciousness on product quality.



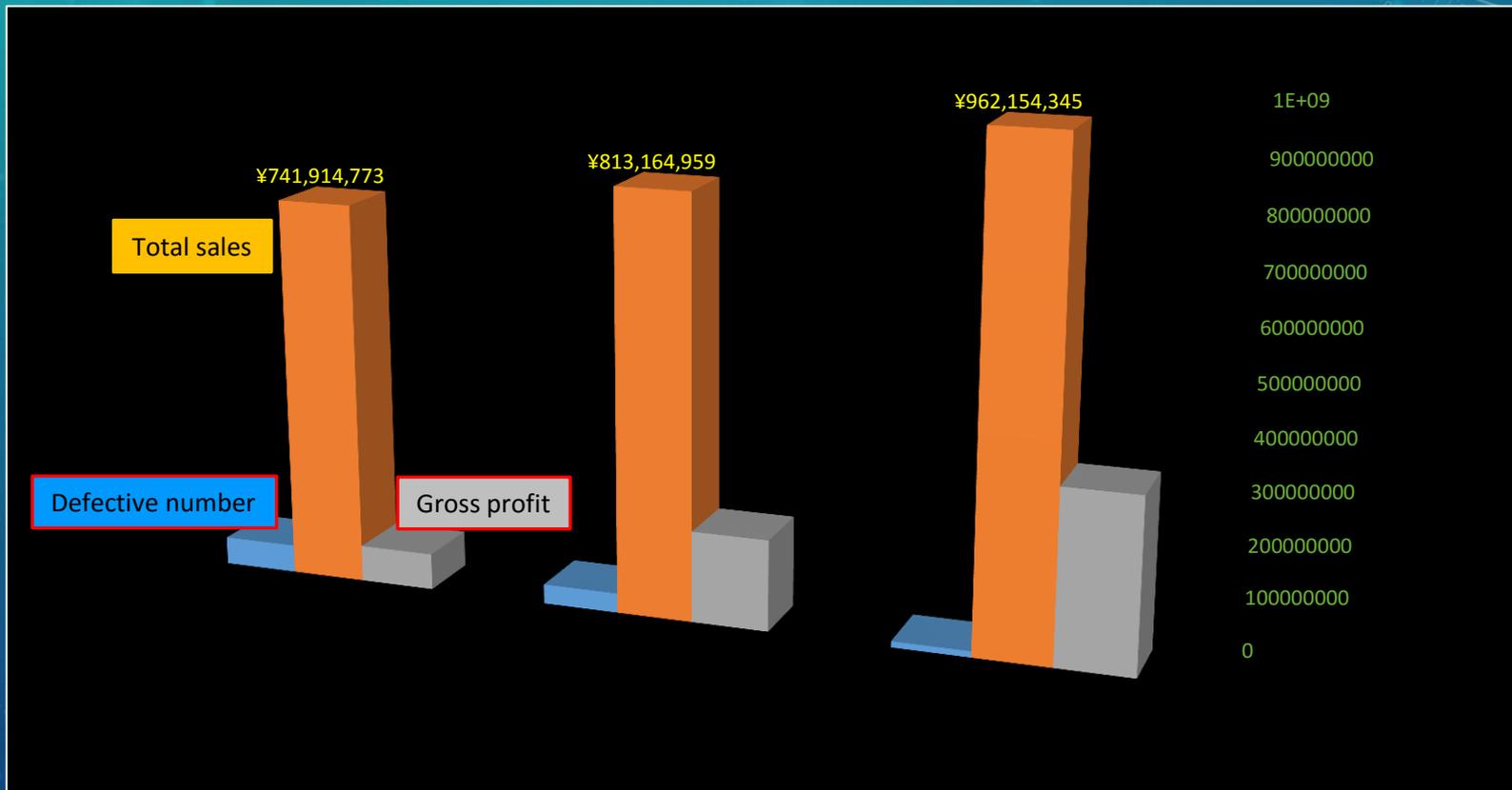
Measurement plan for the future



Helical Scanning

Measurements will increase profits!

	Number of items	Defective number	Total sales	Gross profit
2013	228	12	¥741,914,773	¥7,038,175
2014	238	5	¥813,164,959	¥17,717,789
2015	253	3	¥962,154,345	¥33,755,114



Thank you for your favor



Narimune Manufacture Company Limited



Narimune Techno Engineering (Thailand)