



Servicing Job Without Boundaries

We provide experienced supervisors and well-trained men power to dismantle the jumbo size of PHE such as UX-90 and UX-100 models in petrochemical plants, power plants, HVAC, marine and shipyards and many more.

Our core maintenance program, provides multifaceted support to achieve optimum conditioning of the units at site. We can offer the maintenance program to match various operating condition, enabling operation to be sustained in many processes.



Offshore (Platform)



Petrochemical



Power Plant



Marine



HVAC



About Us

WORKS S.E.A. SDN. BHD., a joint venture company in Malaysia, was established in 2004. To expand our plate heat exchanger business in the ASEAN region, where a high level of economic growth is expected in the future.

There is an inventory of spare parts and a well-trained team of service technicians to provide after-sales-service to our present and future customers. There is a Plate Heat Exchanger "Full Service Package" to offer a comprehensive maintenance program to restore the Hisaka plate heat exchanger to its original and quality performance at our service centre.

This program which is closely supervised by Hisaka engineers, consists of plate-cleaning, chemical-cleaning, visual inspection, original gasket replacement, dye penetration test, re-assemble and final inspection before returning the overhauled unit or plate pack.



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Servicing and Genuine Spare Parts

PLATE HEAT EXCHANGER



誠心

... WITH OUR SINCERITY
"MAGOKORO"



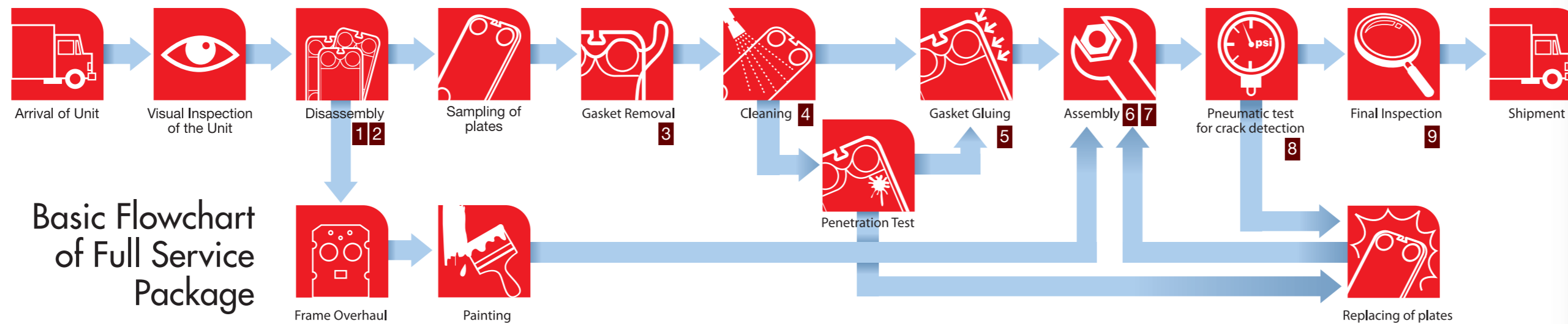
FULL SERVICE PACKAGE

As a leading supplier of Plate Heat Exchanger (PHEs) in the world, HISAKA offers professional maintenance service program that maintains the PHE performance over the product's life cycle ensuring the satisfaction of our customers. Our core maintenance program, "Full Service Package", provides multifaceted support to achieve optimum condition of the units at site.

"Full Service Package" offers a comprehensive maintenance program to restore the original performance at HISAKA authorized service facilities. This program consists of plate cleaning, gasket replacement, dye penetration test, re-assembly and final inspection before shipping. We can offer the maintenance program to match various operating conditions, enabling operation to be sustained in many processes.



Basic Flowchart of Full Service Package



Basic Flowchart of Full Service Package



1 Disassembly
Starting of "Full Service package" After visual inspection of the Plate Heat Exchanger, the plates and frames are disassembled; this is followed by the cleaning process of the plates while the frames are given an overhaul.



2 Disassembly
The overhaul of frame is an important operation to secure the plates firmly. Frame overhaul include task such as inspecting the connection parts and replacing the stud bolt nut, etc., if they are deteriorated.



3 Immersion in degreasing tank
The old gasket and adhesive residue remaining on the seal lie are removed by immersing the plates in the degreasing tank.



4 Cleaning
The plates are immersed in a cleaning chemical tank to remove the old and stubborn dirt on the plate surface and finally washed away with water jet.



5 Gluing the gaskets
After the plates have been cleaned and old gaskets are removed, new gaskets are glued to the plates. At the same time, we ensure the new gaskets are firmly adhering to the groove in the right position.



10 Certificate sticker for "Full Service Package"

After completion of "Full Service Package" the certified sticker is put on the unit. Data on the maintenance are saved in the Hisaka Works database by the serial number on the sticker.

Test report: At the end of "Full Service Package", a set of maintenance report is sent to the owner.



9 Final Inspection

Upon completion of all the above maintenance processes, the assembled unit is pressure tested hydraulically to ensure no leakage. After the final inspection, a certified sticker is fixed on the unit.



8 Leak test

After tightening, the unit is pressure tested using air to ensure that all plates in the unit are defect free. This leak test confirms all plates are defect free. (DPT inspection is an option)



7 Tightening the plates

Using a specially designed tightening device for Plate Heat Exchangers, the plates are tightened to the prescribed dimension. The dedicated tightening device can handle large number of plates very quickly.



6 Assembly

Now that the cleaning maintenance is complete, the plates are mounted loosely onto the frames, which have been overhauled separately. Foreign material trapped between the gasket surface as well as the final plate arrangement is carefully checked.

CLEANING SERVICE

Maintenance service for plates

In the event that "Full Service Package" is not applicable, we can offer plates cleaning and reassemble service to our customer.

Periodic inspection service by contract

We can offer periodic maintenance service contract to customers. Through such inspections, defects can be detected earlier. Therefore, accidents and unscheduled production stoppage for the customers can be avoided.

Plate rotation

The plate rotations service replaces used plates with new plates kept in our factory. This reduces downtime and quick restart of production due to shorter time required for disassembly and assembly of the unit.

UPGRADE SERVICE

"Slit-in" gasket

There are two types of gaskets, i.e. glued type and glue-free type. Although the glued type provides robust adhesion strength but the "Slit-in" glue-free type is easier to install/remove, thus preferable for easy maintenance. Replacing "Slit-in" gasket type or slits can be made to the existing plates.

Monitoring of plates and gaskets

Although our plates are made of corrosion resistant materials, defect such as pin-hole or stress corrosion crack may occur on the plates depending on the operating conditions and period of use. Through our "Full Service Package", any defects such as plate corrosion, changes in plate thickness and gasket deterioration can be detected and reported.

Welded Plate Heat Exchangers

Welded Plate Heat Exchangers consists of laser-welded "cassettes". It is made by welding two plates together by laser and there would be one normal gasket channel for each "cassette". This reduces the replacement cost of expensive gaskets such as fluorocarbon rubber or fluorocarbon resin cushion gasket type.

OPTIONS

Spare parts stock

A comprehensive list of spare parts such as plate, gasket, tightening bolt & nut, rubber boot, nozzle, etc. are available for maintenance work on site.

Automatic tightening device

In order to carry out the opening and tightening work of larger units in a faster and safer manner, a dedicated pneumatic tightening device shall be used. Uniform tightening of plate pack protects the Plate Heat Exchanger frame and prolongs the Plate Heat Exchanger life span.

Cleaning-in place (CIP) Unit

Mobile CIP unit is available for Plate Heat Exchanger. By circulating the cleaning chemicals through the unit, the deposit on the plate surface can be removed. Without dismantling the unit.



We provide customers 3 types of chemical cleaning

HISCHEM 270

HISCHEM 304

HISCHEM DEG