

Manufactured by: A & S Thai Works Co., Ltd.
 98/7 Theparak Rd., Km.22, Bangsaothong, Samutprakarn 10540 THAILAND
 Office: astw@ksc.th.com | Managing Director: sgolten@ksc.th.com |
 Sales & Marketing: wichaik@ksc.th.com | Service Manger: p_sarot@ksc.th.com |
 Website: www.fishmealmachine.com
 Phone: (662) 313 1540 | Fax: (662) 313 1550 | Managing Director: +66 81 825 7104 |
 Service Manager: +66 81 810 2283 | Spare parts: +66 89 813 0182

A & S Thai Works Co., Ltd. (ASTW)
 Page URL: <http://www.fishmealmachine.com>

ASTW Fishmeal Plants and Machinery

Fishmeal plants for Lean or Oily Fish, especially developed and manufactured for operation in Asia by A & S Thai Works Co., Ltd. per September 2009, 195 plants have been delivered since 1986.

Based on technology from the world's largest supplier of advanced fishmeal plants in Denmark and Norway.

Using the famous "Rotating Disc" steam heated drier of which more than 1,500 units have been delivered.

3 years warranty for Rotating disc drier, gear and motor*
 24 hours/day on-call service available
 * Valid for South East Asia only.

Advantages:
 Absolutely the best quality fishmeal machinery on the market today.

- Process raw fish, fish waste and tuna-waste.
- Single steam heated Rotating disc drier, normal or heavy- duty version.
- Easy to operate and maintain by semi-skilled operators.
- Uncompromised quality and reliability, which ensures continuous and profitable operation for many years with only a minimum of maintenance.
- Produces high-quality fishmeal and fish oil (OFP), and does not burn and destroy the protein like driers heater with "hot oil".

(Photo: QL Fishmeal Sdn. Bhd., Malaysia, June 2009)



LFP = LEAN FISH PLANTS

For trawler fish and fish waste with less than 3% oil content. The plant can process almost all kinds of raw materials. The heavy duty version can withstand wear from sand, shell and stone in the fish.

Simple design and very easy operation; mainly a single "Rotating disc" drier and accessories like feeding unit, meal cooler, hammer mill, bagging unit and scrubber deodorizer.

Technical Specification: Lean Fish Plants (LFP)

Plant size	Capacity ton input / 24 hrs.	Steam Consumption ton/hr.	Recommended Boiler-size ton/hr. at 10 bar	Electric Consumption in kW. Installed/load 70%
LFP 24/C 24	24-30	0.8	1.2	39/27
LFP 55/C 55	55-60	1.9	2.5	93/65
LFP 90	90-100	3.2	4.0	123/86
LFP 120	120-130	4.8	6.0	172/120
LFP 160	160-180	6.4	8.5	200/140

Installation of ASTW direct condensate return system reduces fuel oil consumption by 10-12%

(Photo: Vinh Hoan Corp., Vietnam, February 2008)



OFP = OILY FISH PLANTS

For fish, fish waste and tuna waste with more than 3% oil content.

Same components like the LFP plant but with addition cooker and press, solid/liquid decanter and oil separator plus pumps and tanks.

Simplified version with less automation and more use of manual labour. Automation can later be added if required.

WHE = Waste Heat Evaporator can be added later to save 40% steam.

Technical Specification: Oily Fish Plants (OFP) without use of evaporator

Plant size	Capacity with stick water in drier ton input /24 hrs.	Steam Consumption ton/hr.	Capacity without stick water in drier ton input / 24 hrs.	Steam Consumption ton / hr.	Electric Consumption in kW. Installed/load
OFP 24/C 24	24-30	0.8	28-35	0.4	55/38
OFP 55/C 55	55-60	1.9	60-70	2.5	123/86
OFP 90	90-100	3.2	100-120	1.8	150/105
OFP 120	120-140	4.8	130-150	2.9	230/160
OFP 160	160-190	6.4	180-220	3.9	305/213

Installation of ASTW direct condensate return system reduces fuel oil consumption by 10-12%
 OFP Plants are LFP Plants with added Cooker, Press and equipment for oil extraction and separation.

*specifications are subject to change without obligation or notice