

PHROCESSOR PK

A modular assembly of processing units all fully pre-piped, pre-wired and workshop tested prior to despatch. The advantages are:

- (a) Reduced pipelines between process stages. This can be critical in achieving a good quality crystallised
- (b) Minimum installation time and hence avoidance of delays often caused by minor technical problems only realised during commissioning.
- (c) Minimal wastage or reprocessing of margarine and spread produced during commissioning.
- (d) Very considerable floor space reduction.

A typical PHROCESSOR PK for the manufacture of margarine, spread and shortening would comprise:

- Emulsion Feed and Hot Water Vessel
- High pressure triplex piston pump with hygienic pulsation damper
- PHROGAS Model PG nitrogen gas injection unit.
- PHROTATOR Model PK units scraped surface heat exchangers.
- PHROTEX Model ISC units crystal dispersion units.
- PHROTEX Model PT unit heat release and texturising unit.
- Auto-Blow System for incorporation where frequent power loss is anticipated.
- Process control and instrument panel.
- Set of pipes and valves water, emulsion and refrigerant.

GROUP ACTIVITIES

Chris James Consultants - CJC

Food process designers, project managers and contractors operating principally in the edible oils and fats business, CJC have developed processes and equipment to suit both developing and developed markets. CJC are able to offer product formulation technology and also independent survey and cost effective analysis of existing operations.

Phropines Manufacturing Ltd - PML

Manufacturers of the PHROPINES range of production, packaging and service equipment for the margarine, dairy, spread and shortening industries. CJC & PML have a combined resource backed by over 30 years of first hand operational experience and hence offer a complete plant

supply service to the industry.

Containerised Process Plant Ltd - CPP

A specialist contractor to the food industry operating in collaboration with one of the UK's leading international process equipment suppliers and a team of technical experts. CPP have recently developed a fully containerised edible oil refining plant of both "alkali" and "physical" capability, capacity range 10 -200 tonnes/day. This patent registered scheme utilises standard profile sea/land transport containers fully pre-assembled and requiring only site assembly, weather cladding and the supply of locally manufactured storage tanks to complete a comprehensive

JLJ Engineering Services Ltd - ESL

The UK's leading design, supply and installation contractor to the paper corrugating industry. In this niche market ESL provide steam raising plants with fully enclosed condensate recovery systems, starch units encompassing receipt, storage, make-up and handling and a wide range of ancillaries. ESL are also able to offer developing markets fully reconditioned modern plant of relatively low to medium output.

JLJ Effluent Engineering Ltd - EEL

A manufacturer under exclusive European licence of the world renowned Alar waste water treatment system. This system has been adapted by EEL to the requirements of the corrugated board industry. As this brochure goes to print, CJC & EEL are collaborating in a similar development specific to the food and edible oil/fat



Complete Margarine & Spread **Processing Plant**

Reference Plant Listings

JLJ Operations

Abbey Corrugated Ltd

Amcor Packaging Group A.S.S.I. Dorman Ltd David S.Smith Group Granada Television Hiang Seng Bangkok - Thailand Laporte Industries Ltd Longulf Trading Ltd - UK & Yemen Model Board Ltd Rexam Corrugated Ltd S.C.A. Packaging Ltd S.H.S. Container Ltd Smurfit Corrugated Group - UK & NI Socar - France T.B.A. Belting Ltd

CJC + PML Operations

Ahmed Vegetable Oil & Ghee Mills - Pakistan Armaghdown Creameries Ltd - NI N.Z. Bakels - Malaysia Bodfari Producers Ltd Bakels Group - UK, SA & Malaysia British Arkady Ltd De Mulder Group Eilers & Wheelers Group Fresco Oils and Fats Ltd Giloil Ltd - Kenya Guan Soon Heng Edible Oil Sdn Bhd - Malaysia Milk Marketing Board - R & D Norbury Ltd Pedigree Petfoods Ltd Pura Foods Ltd United Biscuits Ltd W & R Barnett (Precision Liquids) - NI

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CJC + **JLJ** Operations

Anchor Foods Ltd - UK & NZ Anglia Oils Ltd Bidco Oil Refineries Ltd - Kenya Britannia Refining Co Ltd Express Dairy Creamery Milk Marketing Board

PHROPINES

Manufacturing Ltd

