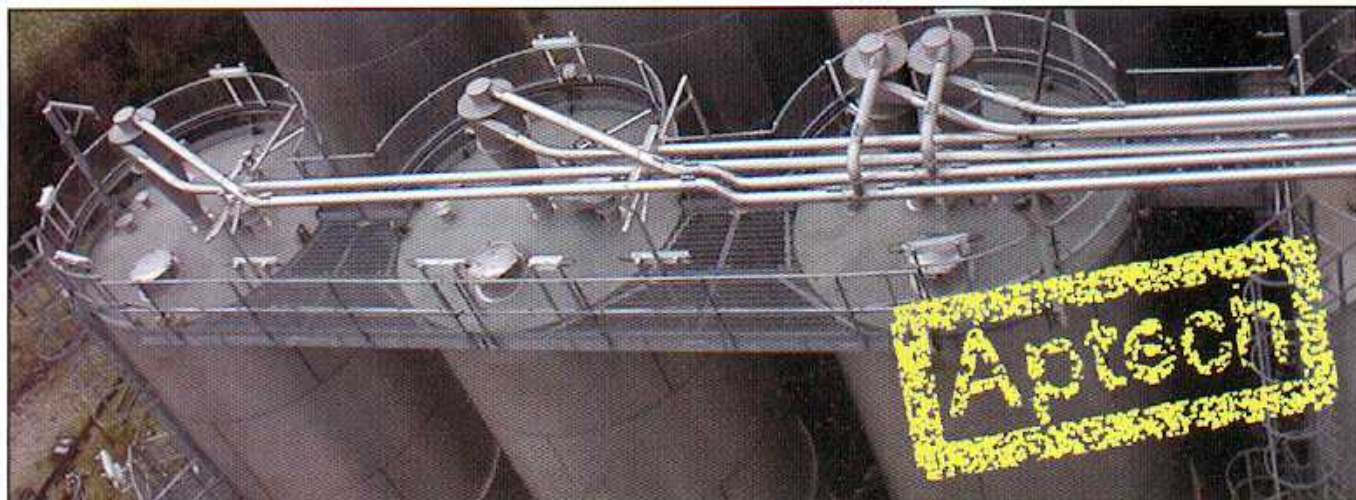


MAKING A MARK

Three systems
to suit your
needs

Airson

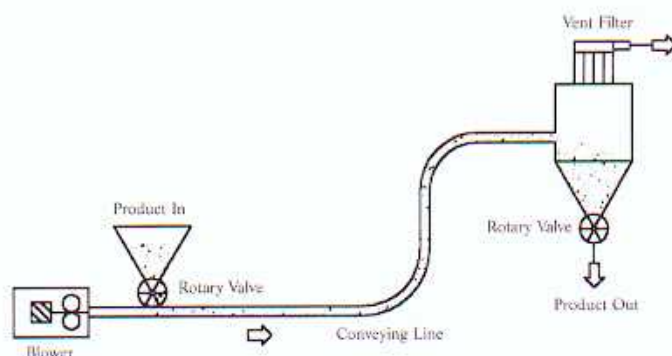
IN PNEUMATIC CONVEYING



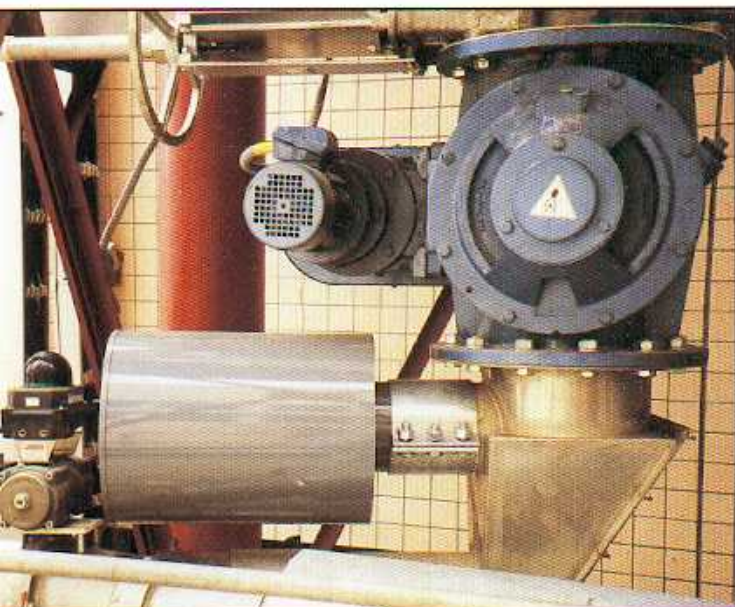
MAKING A MARK IN PRESSURE CONVEYING

Pressure Conveying

The conventional lean phase pneumatic conveying system employing a blower, metering valve, conveying pipeline, receiver and vent filter. Can operate at higher pressures than vacuum, resulting in higher conveying rates for each pipe size. Air is usually compressed using a positive displacement or "Rootes" type blower for pressures up to about 1 BarG.

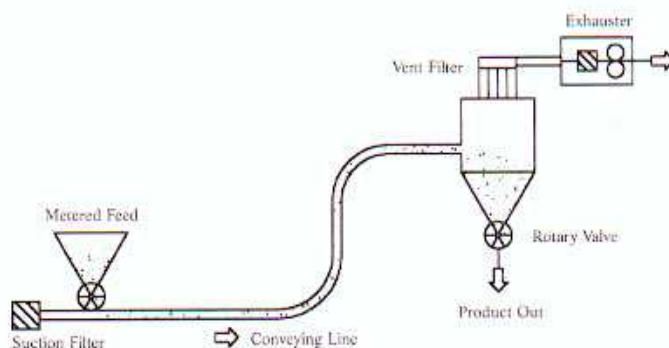


- Multiple pick up and delivery points.
- Weighing control - hoppers and receivers mounted on load cells.
- Air speed control system - convey fragile products gently at low velocity.
- Abrasive products - conveyed using abrasion resistant bends.
- Dust explosion - protection by venting, suppression or containment.

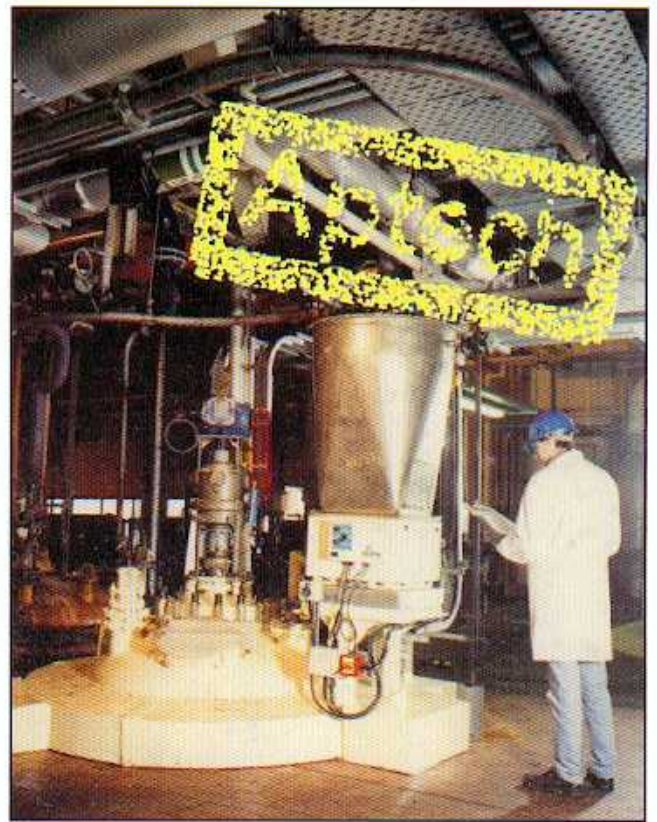


Vacuum Conveying

Uses a metering device at the inlet, a pipeline receiver, vent filter and exhauster. Large particles can be fed into the system without damage. Under negative pressure; potential leakage of toxic or hazardous products is prevented.



MAKING A MARK IN VACUUM CONVEYING



MAKING A MARK IN CLOSED LOOP CONVEYING

Closed Loop Conveying

Conveying in a sealed circuit of pipe and re-circulating the conveying air has many advantages. The technical and economic advantages of closed loop conveying and storage have benefited many diverse companies. Aptech have designed and installed more than 200 closed loop conveying systems to become market leaders in this technology.

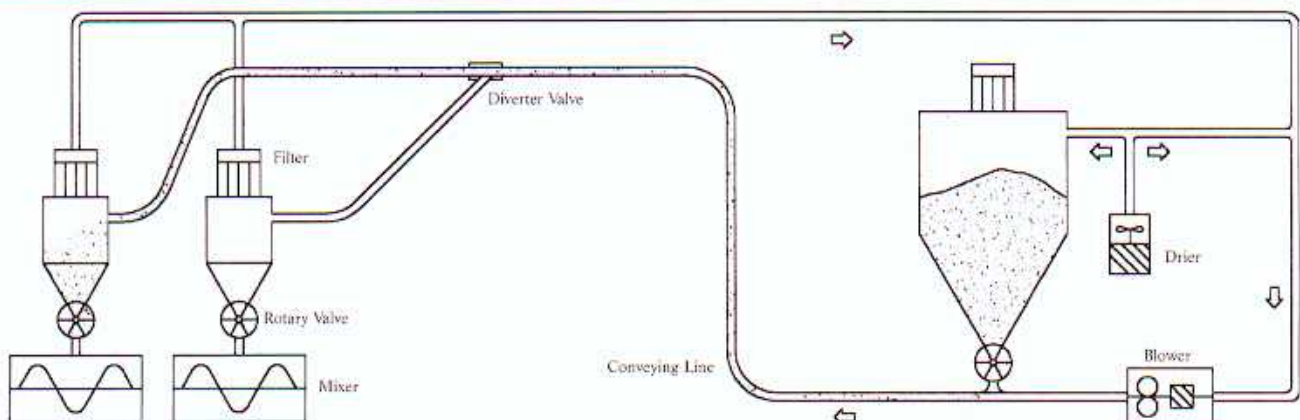


DRY AIR CONVEYING

- Conveying of hygroscopic and perishable products in a dry sealed system.
- No caking or agglomerating, product stays in good condition and free flowing.
- Micro-biological growth inhibited.
- No need to lag pipework, vessels or silos to prevent condensation.
- Improved performance, economic use of dried air, low maintenance and cleaning.
- Sealed system - emissions contained.

NITROGEN CONVEYING

- Ideal for hazardous products - transported safely.
- Explosion panels and venting eliminated.
- Economic conveying by re-circulating gas.



MAKING A MARK



MAKING A MARK IN TEST & DESIGN FACILITIES

- Aptech have extensive test and design facilities.
- Product characteristics and data are obtained using our test rig which can be configured to pressure, vacuum and closed loop conveying and up to 80m conveying length.
- With over 20 years of experience we have a large database of product knowledge and information.
- Customers are welcome to trial products, witness tests and inspect our facility.
- Each system is designed using our in house computer modelling programme.

Aptech specialise in powder handling systems for the process industry including: Pneumatic Conveying, Powder Storage & Discharge, Weighing & Feeding, Big Bag Discharge & Filling.

Aptech design, supply, install and commission complete turnkey systems.



APTECH (POWDER SYSTEMS) LTD.

Unit 1, Sutton Court, Bath Street, Market Harborough, Leicestershire LE16 9EW, England
Tel: +44 (0)1858 410737 Fax: +44 (0)1858 434273

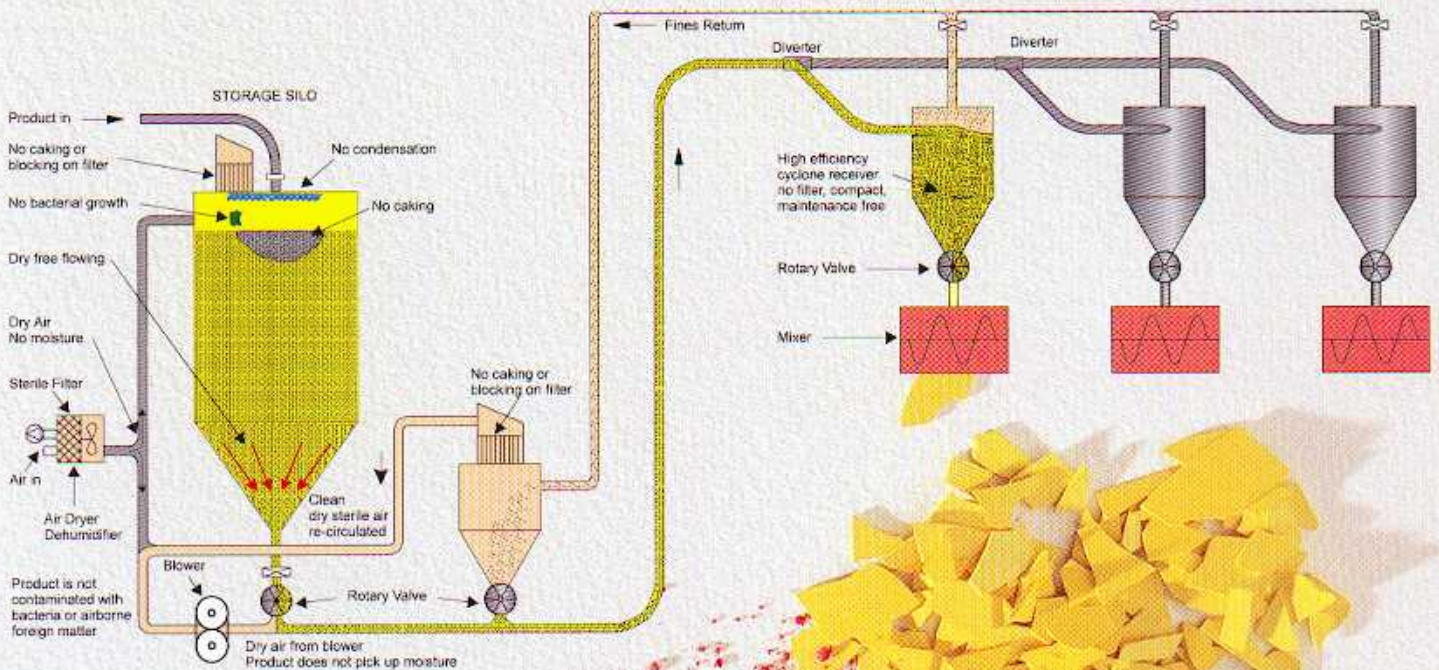
IN PNEUMATIC CONVEYING



CLOSED LOOP CONVEYING

The Clean Enclosed Method of Pneumatically Conveying Hygroscopic, Friable and Hazardous Products

A BRIEF LOOK AT THE BENEFITS



Storage & transportation of hygroscopic & perishable products in a dry, sealed system

DRY AIR =

- no caking
- mould growth inhibited
- product stays in good condition
- reduced maintenance & cleaning

SEALED SYSTEM =

- no airborne contaminants
- contained emissions

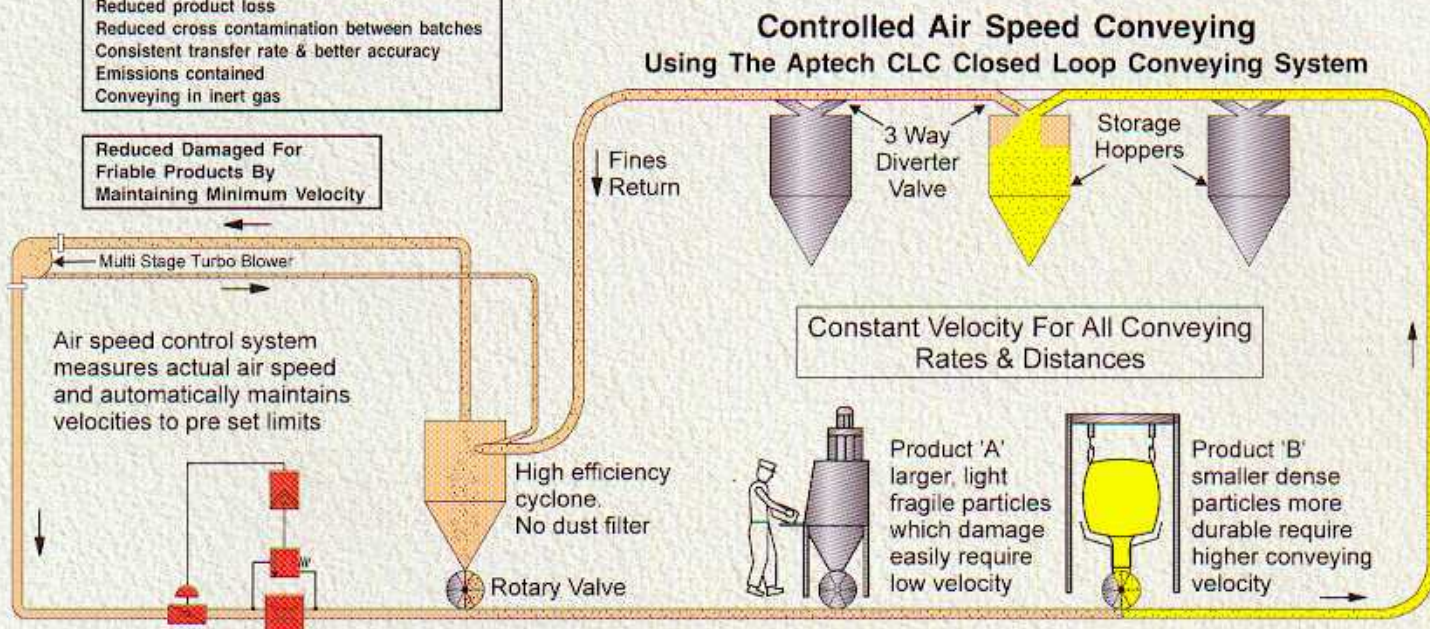


CLOSED LOOP CONVEYING

- ★ Ideal for hygroscopic materials, same air continually circulates thus avoiding the introduction of moist air
- ★ Sealed system means clean enclosed method of conveying
- ★ Hygienic – prevents bugs and micro organisms entering system – suitable for food quality powders and granules

No dust filters
No dumping of product off filter bags
Reduced product loss
Reduced cross contamination between batches
Consistent transfer rate & better accuracy
Emissions contained
Conveying in inert gas

Reduced Damaged For Friable Products By Maintaining Minimum Velocity



MAKING THE RIGHT IMPRESSION

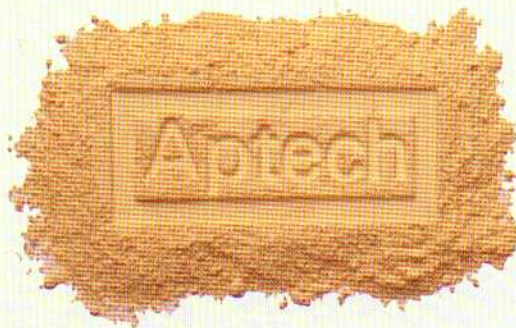
Aptech

APTECH POWDER SYSTEMS LTD.

Process Systems, Pneumatic Conveying, Powder Storage, Powder Discharge & Weighing, Slurry Make Up & Handling

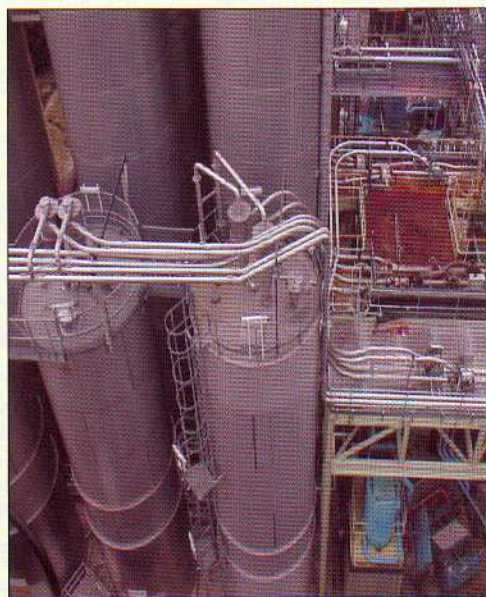
APTECH (POWDER SYSTEMS) LTD.

Unit 1, Sutton Court, Bath Street, Market Harborough, Leicestershire LE16 9EW, England
Telephone: +44 (0)1858 410737 Fax: +44 (0)1858 434273

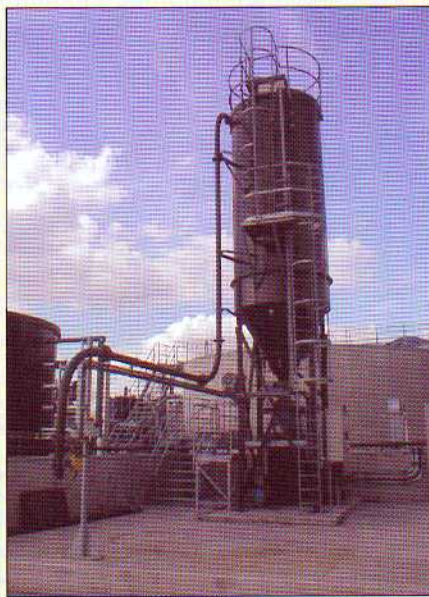


FOR POWDER & SOLIDS HANDLING SOLUTIONS GO TO
aptech.uk.com

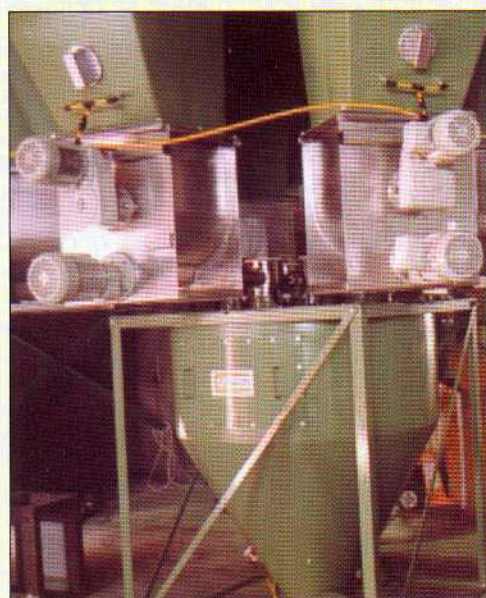
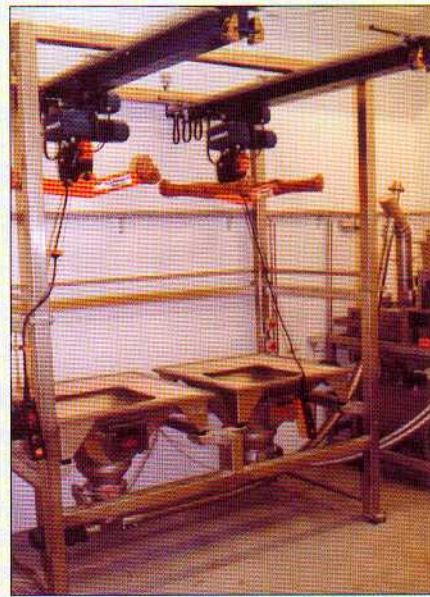
PNEUMATIC CONVEYING



SILOS & DISCHARGERS



FIBC DISCHARGING & FILLING



VOLUMETRIC FEEDERS



WEIGHING & CONTROL



TURNKEY SYSTEMS

Aptech offer innovative and technically advanced solutions for the storage, discharge, feeding, weighing and conveying of powders and granules. Go to www.aptech.uk.com now or contact:

Aptech (Powder Systems) Limited, Unit 1, Sutton Court, Bath Street, Market Harborough, Leics. LE16 9EW
 Tel: 01858 410737 Fax: 01858 434273 E-mail: sales@aptech.uk.com

Process Systems: Pneumatic Conveying, Powder Storage, Powder Discharge & Weighing, Slurry Make Up & Handling

REFERENCE LIST - UK AND IRELAND COMPANIES

A W Ennis, Ireland ABR Foods Ltd, Corby AEG-Anglo Batteries, Hitchin Allied Colloids, Bradford Alphagary, Melton Mowbray ARC Ltd, Leicester BOCM, Various Bostik Ltd, Leicester Brico Ltd, Coventry British Diamalt Ltd, Newark BTR Graphics, Slough Burgess Feeds, Thornton le Dale C M Varley Ltd, Darlington Cargill UK Ltd, Tilbury Croda Kerr Ltd, Liverpool Croda Universal, Hull Cussons Ltd, Nottingham Dalgety, Belfast Dalgety Agriculture Ltd, Various Dawn Foods Ltd, Evesham DOW Chemicals, King's Lynn Du Pont (UK) Ltd, Dumfries ECC International Ltd, St Austell Elkes Biscuits, Uttoxeter First Water, Warwick Fishers Nutrition Ltd, Driffield	Gilbertson & Page, Welwyn Garden City Golden Acres Petfoods, Preston Harbro Farm Sales Ltd, Scotland Hickson Fine Chemicals, Castleford HKM Milling Ltd, Ireland J A Sharwoods & Co Ltd, Greatham J Bibby, Various James Bowman Ltd, Hitchin Jus-Rol, Berwick-upon-Tweed Kames Fish Farming, Oban Kemira Chemicals, Goole Kerry Ingredients, Gainsborough Knauf, Sittingbourne Laporte, Leicester MB Games Ltd, Ireland McVitie's, Halifax McWhorter, Bury Millennium Organics, Grimsby MKF (UK) Ltd, Newry MMG Neosid, Letchworth National Starch Adhesives, Slough Nutech Ltd, Litchfield Pedigree Petfoods, Peterborough, Melton Phostrogen Ltd, Wales Polycell, Welwyn Garden City	Premier Refractories Ltd, Doncaster Procter & Gamble Ltd, Newcastle Procter & Gamble Ltd, Manchester Purac, Kidderminster Redland Brick RHM, Rotherham Rhone Poulenc Ltd, Gloucester Ruberoid, Manchester Saint-Gobain, Stafford Sean Quinn Quarries Ltd, N Ireland Southern Water, Worthing WTW Spillers Petfoods Ltd, Wincham Sun Chemicals Ltd, London Sun Valley Foods Ltd, Hereford Trebor Bassett, Chesterfield Tremorfa Steelworks, Cardiff Turner Grain (Ireland) Ltd, Ireland Vitamealo, Avon W J Oldacre, Various W L Duffield, Norwich W R Grace (Servicised) Ltd, Slough Webbs Country Feeds, Westbury Yorkshire Chemicals Plc, Leeds Yorkshire Country Feeds, Northallerton Yorkshire Water Plc, Leeds
---	---	--

REFERENCE LIST - INTERNATIONAL COMPANIES

ACM, Holland Alicoop, France Aliments Einville Sanders, France Awila Maschinenfabrik, Germany Borrenbond Deurne, Holland CAF APPRO, France CAV De Valk & Omstreken, Holland Cehave NV Veghel, Holland CHV NV, Holland Continentale Nutrition, France Cooperatie Haarle, Holland Cooperatie Twente Achterhoek, Holland CTA, Holland Cussons, Poland Cussons, China Cussons, Indonesia Deventer Mengvoeder Centale, Holland DMC, Holland Dossche NV, Holland Fakieh Poultry, Saudi Arabia	Farm Frites, Belgium Guyomarch Verto, France Heemhorst, Holland Heitling, Germany Hoogovens Ijmuiden, Holland Hyundai, Korea Intrexco BV, Poland Koudijs Wouda Voeders, Holland Lever Bros, Nigeria LLTB, Holland Logeais (Aliments), France LBAG, Germany Le Men Aliments, France Lemb Weston, Holland Markhausen, Germany Mengvoeders EJ Bos BV, Holland Mengvoeders UT Delfia BV, Holland Molens Van Dienze, Belgium Ottenvanger, Holland Petrochemya, Saudi Arabia	Pricor, Holland PT Japfa Comfeed, Indonesia Raiffeisen-Warengenossenschaft, Germany Roche, South Africa Rothkotter Kraftfutterwerk, Germany RWG Haselunne, Germany RWG Twistingingen, Germany Sloten BV, Holland Union Cooperl-Hunaudaye, France Unisabi (Pedigree Petfood), France UTD, Holland Van Aarsen, Holland Van Den Burgh, Holland Van Leeuwen Pluimvoeders BV, Holland Van Veen Zwarteboek BV, Holland Van Wijhe Zwolle, Holland Vanden Avenne, Belgium Versela Laga, Belgium Vitafor NV, Belgium Voeders Degrave, Belgium
---	--	--

REFERENCE LIST - CLOSED LOOP CONVEYING SYSTEMS

We have installed over 200 closed loop conveying systems. A separate reference list is available on request.