

Nicholson Conveyors

The Nicholson Group of Companies were formed over thirty years ago to service the increasing demand for materials handling equipment. The company formed solely to supply conveyor systems as the world began to shift towards the concept and inevitability of automation. Soon afterwards the company realised the potential of diversifying into general materials handling in order to design coherent mechanical handling systems. This whole area of movement was not just found in the homeland, but also in various other countries such as Saudi Arabia and Turkey.

Nicholsons have undoubtedly positioned themselves as true competitors in all its disciplines, having offices and factories strategically positioned throughout the UK to cope with nationwide demands.

Our underlying philosophy is that design breeds productivity, by this we believe that the design aspect far outweighs the supply of any product. We achieve this via detailed site and product evaluation on an individual basis followed by computer aided design to achieve the desired requirement. Our team of CAD operators are highly experienced within industry as well as in-house, to provide unrivalled design work.

The range of our diversification spans many areas including many types of mechanical handling equipment (conveyors, lift tables, tip units, hoist units, etc.), mezzanine floors, ceiling and partition work, industrial ovens, office renovations and general project management.

FM Nicholson (Materials Handling) Limited

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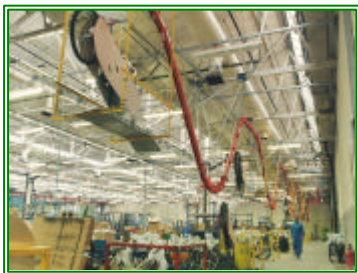
GRAVITY ROLLER CONVEYORS

(WEB) Gravity roller conveyor systems are used as a cost effective method of conveying goods over a given area. This incorporates low expenditure coupled with low maintenance costs to provide an effective handling of materials or products. The simplest gravity tracks immediately eliminate the fetching and carrying element of work to enable more effective use of man hours.

Depending on the product, the system can be manufactured with various types of materials such as mild steel, stainless steel, aluminium, zinc coated or galvanized to prevent damage or rusting of the conveyor.



OVERHEAD CONVEYORS



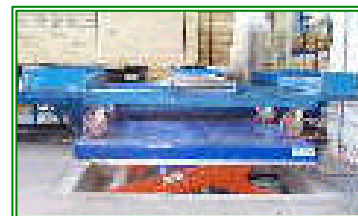
Nicholson (WEB) Overhead systems are used to optimise available space and provide safe, direct access for operatives on the factory floor. Our systems are designed either fully powered or power and free, with capacities ranging from 30kg up to 12000kg.

This type of system can be used for such applications as painting and pre-treatment plants, assembly and test lines, garment handling and storage systems etc. Examples of specific industries who use overhead lines are; cycle manufacturers, clothing distributors, mail order companies, automotive manufacturers and laundry services.

GENERAL MATERIALS HANDLING

Although the Nicholson Group specialise in conveyor systems, we do integrate other aspects of mechanical handling products to enable us to design full mechanical handling schemes, which ultimately incorporate many various products to produce profitable, efficient and complete handling systems.

Types of extra equipment for such schemes include scissor lift tables, tip units, turntables (powered and manual), palletizers/de-palletizers, vertical hoist units, chutes and plough or pusher units to guide products.



BELT CONVEYORS



Nicholson belt conveyors are ideal for handling either fragile loads or loads with base surfaces which are not suitable to be conveyed on roller conveyors. An advantage of the belt conveyor is that there can be constant load spacing and controlled travel speed. Various belt types can be used depending on the nature of the product, in order to keep the product stationary on the belt, whilst in transit.

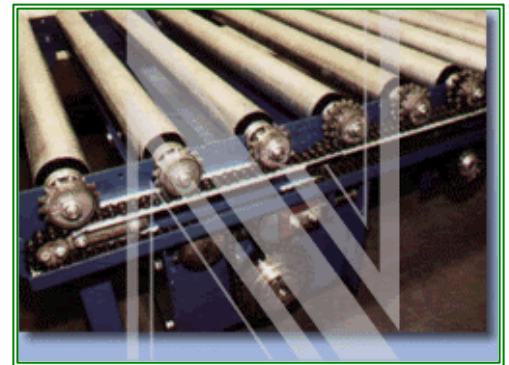
All our belt conveyors are built from component parts to enable us to custom build systems quickly, easily and economically to meet client requirements.

POWERED ROLLER CONVEYORS

Powered roller conveyors can be classified into 2 divisions:

- 1) Lineshaft driven rollers – for more light duty applications. This system operates using a common drive.
- 2) Chain driven conveyor – for heavy duty work. Each roller has a sprocket at each end which is connected to a common chain.

Wherever it is undesirable to have loads accumulating against one another, zero line pressure conveyors enhance the flexibility of the powered roller conveyor systems, therefore enabling the non-contact accumulation of goods. With the use of a simple electro magnetic brake, this zero line pressure arrangement negates the need for a complicated control system.



SLAT CONVEYORS



Slat conveyors are used in a wide variety of industries. Plastic slat conveyors are particularly well suited to the food industry. This type of conveyor has the added advantage of being able to negotiate curves and inclines thus reducing or eliminating the number of transfers in a system, which are often the root cause of product damage. Steel slat conveyors are extremely strong and robust, constructed to handle loads in excess of 1500kgs.

Chain and slat conveyors operate either horizontally or on steep inclines which can be greater than those of belt conveyors.

ROLLERS



The rollers are the essential ingredient to the gravity track and come in many shapes and forms. Tapered rollers are used for curvatures and bends and like any other roller can be adapted to suit the requirement, this means the rollers can be rubber coated, zinc coated, galvanized, fixed on the spindle/loose or various diameter sizes with varying degrees of bearing mountings, all geared towards the safe and efficient transportation of products. Connected with rollers is the spindle design, which again come in various forms, such as spring loaded spindle, stub axles, drilled and tapped or turned down with a male end thread.

MEZZANINE CONSTRUCTION

Mezzanine floors, also known as raised storage platforms, have long been part of the Nicholson Group portfolio. Mezzanine floors make effective use of building height coupled with cost effective use of capital. It is also part of the Nicholson Group's comprehensive service to undertake all submissions of drawings and calculations to the relevant authorities. To complement the mezzanine platform division, the Group offers a full range of shelving and racking services, again tailor – made to solve all aspects of basic shelving and storage requirements, from lightweight to heavy components.



NUCLEAR INDUSTRY

Engineering, design, manufacture, procurement, test and commissioning of fully automated materials handling systems, specifically for the Nuclear Industry including:

- Powered roller conveyor systems
- Cranes
- Lowerators

Active areas (*Incave*) various stainless steels or special materials as specified

Non Active areas (*Outcell*) carbon or stainless steel with special finishes as specified

AIRPORT – BAGGAGE HANDLING

- Complete systems designed to customer specifications
- Check-in systems including desks and weigh scales
- Arrival carousels with overlapping or interlocking slats
- Overlapping slats can rise or fall at a 15 degrees angle
- All conveying equipment landside in stainless steel
- Equipment airside in galvanised or zinc coated
- Control systems to include emergency stops and full safety features
- Full installation and servicing facilities
- Sovex Systems© have been supplied to Airports and Seaports for 30 years
- Accessories include:- Fire Doors, Draught Curtains, Ergonomic Lifters Etc....
- Modular construction allows subsequent modifications to be carried out easily



CONSULTANCY

The Nicholson Group offers Consultancy in the field of Materials Handling, Logistics and Mail Order. From initial conceptual design studies to implementation.

- * Materials Handling System Design and Specification.
- * Information Technology System Design and implementation utilising standard or bespoke packages.
- * Invitations to Tender, Analysis and Procurement.
- * Project Management and Supervision.
- * Implementation within Budgets and Time Scales.
- * Supervision of Commissioning and Hand over.
- * Training.
- * Recruitment and Management.

We offer a complete service enabling the client to concentrate his efforts on the core business. There will be regular progress reports with updates set against pre-set benchmarks and schedules. After initial discussions we should be able to approximate a time scale and cost to the project, subject to all required information bank available. We can normally commence a study within a two week timescale, following appointment. In certain circumstances we may elect to waive our fees if we are contracted to source supply, supervise and implement a scheme.

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**FOR MORE INFORMATION PLEASE CONTACT
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