One of the UK’s leading and most experienced independent specialists in the materials handling industry

DESIGN
FABRICATE
INSTALL
SITE SERVICES
ROLTECH MECHANICAL
One source, one contract, one supplier, one stop

We offer a full, on-site service using skilled and trained operatives, to carry out work with quality equipment, competency certification for all personnel and safety documentation to current British safety standards. At Roltech, we have the staff & expertise to act as principle contractor, to carry out project work conforming to CDM principles.

Our head office in Newcastle under Lyme supports a team of 75 personnel, managing engineering design, project management, production control and installations. We have an adjoining 25,000m² workshop for in-house fabrication, which includes a 25 tonne single lift capacity and separate shot blasting and painting facilities, situated on a 2.5 acre site. Our training program includes health & safety training, personnel improvement and a rolling apprentice scheme for young engineers.

EXPERIENCE, EXPERTISE, EXCELLENCE
Our area of expertise is in the design, fabrication, installation and maintenance of material handling plants. We provide turnkey solutions to your crushing, shredding, screening and recycling needs, with a full design team on hand to fulfill your exact requirements.

As well as building and commissioning new plant, we provide a plant modification, refurbishment and repair service. Roltech offers its experience in designing and providing solutions to many processing problems and our 24 hour maintenance and breakdown service is available to ensure continued operation.

Anything from supplying & changing a belt scraper or bearing, to rebuilding a conveyor, primary crusher or screening system.

SINGLE SOURCE SUPPLIERS
Roltech Mechanical Limited is one of the leading independent specialists in the materials handling industry. Quarries, factories, bio-energy plants, recycling plants, water treatment plants – our experienced team is here to help you.

Working with Roltech, our customers do not have to spend time and money contacting and dealing with numerous contractors.
DESIGN
Design offices equipped for any materials handling project

We have engineering design offices equipped to design any materials handling project, comprising of several 3D drawing stations and the ability to carry out process and instrumentation design, general arrangements, structural specifications and detail design. We have an on-site team of engineers who are able to carry out site measuring to a complete new design, or to fit with your existing plant.

FEASIBILITY DRAWINGS
Mechanical engineering designs are supplied as complete drawings.

All designs & calculations are delivered via our contracted chartered engineers.

DETAILED LAYOUTS
This design facility is backed up by our extensive team of on-site engineers who are fully-trained to carry out everything from site measuring, to designing a complete new bespoke plant, and installations which have been designed to fit with your existing plant.
FABRICATION

Extensive workshop facilities, with a 25 tonne single lift capacity & on-site spray shop

Roltech Mechanical Limited have the capacity to carry out large and small fabrications of any kind. All of the equipment we design is fabricated on site by our team of experienced engineers. We are also able to undertake contract work to your specified design drawings as required.

We have extensive workshop facilities with a 25 tonne lifting capacity for heavy fabrication and coded welders for the most specialised welding projects in mid steel, stainless steel, aluminium, hardox, and exotic materials.

Our on-site facilities also includes a spray shop where we are able to supply steelwork with a galvanised or shotblasted and painted finish where required.

*Our experience includes working for blue chip companies within the following sectors to the highest specifications...*

- Food
- Biomass
- Quarrying
- Aggregates
- Manufacturing
- Water
INSTALLATION

Hands-on installation management, within CDM Regulations

Our experienced on-site installation teams are equipped to carry out large engineering projects within CDM regulations. Health and safety of all personnel is our number one priority, all our staff are trained in current health & safety regulations, and receive on-going training as standard.

Our hands-on management team regularly carry out toolbox talks and construction meetings to ensure your project requirements are always met.

Roltech Mechanical Limited undertake full method statements and risk assessments as part of all projects to ensure all work is carried out safely and to your schedule.

When it comes to maintenance we can advise and assist your existing maintenance team, or if required provide a 24/7 maintenance service, covering everything from major breakdowns to smaller installation issues involving belt scrapers, platforms and stairs.

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On-site Installation

H&S / CDM Regulations
MATERIALS HANDLING EQUIPMENT
An expertise in design, build and installation

As a single source supplier we have eliminated the need for our clients to have to work with numerous contractors and suppliers. As well as building and commissioning new plants, we can also provide plant modification, refurbishment and repair service. Our expertise allows us to act as principle contractors to carry out project work conforming to CDM principles, working across a wide and diverse range of sectors both in the UK and worldwide.

These include, but are not limited to:

- Factories
- Bioenergy Plants
- Recycling Plants
- Water Treatment Plants
- Quarries

Roltech Mechanical Limited has a wealth of experience working in quarries and factories and is able to service all your materials handling needs, together with the expertise to design, build and install plant to handle and process all types of materials including:

- Primary Stone
- Crushed Stone
- Single Sizes
- Fines
- Sand
- Wood / Wood Chip
- Tyres
- Tyre Chip
- Floc
- SRF
- WDLF
- Scrap Metal
- MBM
- PSP
- Water
- Rock Salt
AGGREGATE & SAND PROCESSING
An expertise in design, build and installation

We have a wealth of experience in quarries and factories and are able to service all your materials handling needs. We have the expertise to design, build and install plant to handle and process all types of material, whether this be primary stone, crushed stone, aggregate, fines, sand, cement, coal or rock salt... the list goes on.

Previous work we have carried out includes:

Primary / Secondary / Tertiary Aggregate Crushing and Screening Plants.

Fines and Water Recovery Wash Plants.

Material Silos, Bunkers and Bins – Dump Hoppers, Cold Feed Hoppers, Back Feed Hoppers, Sand Silos, and Cement Silos.

Belt Feeders, Plate Feeders, Screw Feeders and Hydrostroke Feeders.

Screens, Screen Structure and Chute Design, including Dewatering Screens and Trommel Screens for Primary and Secondary Materials.

Stockpile Conveyor and Radial Conveyors.

Ship Loading Conveyor and Telescopic Conveyors. Long Distance Field Conveyor, including Belt Conveyor Products including Scrapers, Feed Boot Skirt Clamps, Rollers and Drums.

Bucket Elevators and Chutework.

Ducting and Pipework – both Heavy and Light Duty.

CONCRETE BATCHING PLANTS
A comprehensive range of dry and wet concrete batching plants

We have developed a comprehensive range of dry and wet concrete batching plants that will give accurate production and dosing of concrete. These are designed to allow easy maintenance. The concrete batching plants can be designed to suit your site, these can also be used for block making, slip-forming and shotcrete production.

Our range of aggregate storage bins can be tailor made for best fit in any size or configuration.

A full desk mounted control system is fitted with PLC and HMI, controls include manual push buttons, running lights and digital weigh indicators.

The PLC is easily programmable with the facility to store a number of recipes and the panel can easily be fitted into an existing control cabin or building.

All plant and associated equipment designed and manufactured by Roltech meets all current QSRMC, HSE and EPA requirements, thereby producing quality concrete in a safer and cleaner environment.
READY-MIX MORTAR TRUCKS
Multi compartment truck bodies tailored for you

We manufacture multi-compartment, ready-mix mortar truck bodies which allows our clients to carry five 2m³ batches of mortar to site. This enables our clients the ability to carry different colours, or classes of mortar, to different building sites.

EACH COMPARTMENT has a number of blades which rotate around a central shaft to keep the mortar conditioned and ready to use as soon as it’s off-loaded on site.

EACH COMPARTMENT has its own independent discharge door which is pneumatically operated by the driver.

EACH TRUCK has the ability to carry plastic tubs to and from site which the driver uses to off-load the mortar into.

The top of the body is open to allow the driver to fill from a standard pan-mixer sock in the plant and then the hydraulically operated sheeting system is used to completely cover the top before leaving for site.

All bodies can be individually tailored to suit the clients needs. This could be as simple as painting to suit the clients colour scheme or re-configuring the number of compartments to suit the client’s business needs.
WASTE RECYCLING AND ALTERNATIVE FUELS
An experienced understanding of the evolving needs of this market sector

Roltech Mechanical Limited have built and installed a wide range of varying size plants and systems to handle various waste products for those clients in the waste recycling and alternative fuels market sector.

Waste Recycling & Alternative Fuel projects include:

- Recycled Wood Power Generation Plants
- WDLF (Waste Derived Liquid Fuel) Plants
- SRF (Solid Recovered Fuel) Plant
- Tyre Handling & Tyre Chip Burning Plant
- PSP (Pasteurised Sewage Pellet) Plant
- MBM (Meat and Bone Meal) Plant
- Scrap Metal Works (Processing and Stockpiling Plant)

Whatever your requirement Roltech Mechanical Limited can design & build tailor made waste recycling / alternative fuels packages to suit your needs.

WASTE TO ENERGY
Working with blue chip companies to assist with waste to energy solutions

Roltech Mechanical Limited have, for over the last 10 years assisted on numerous waste to energy installations for a number of blue chip companies. Being responsible for the manufacturing of Gasifiers, Oxidisers, Bag house units, Gas ducting, and all the associated pipework requirements that include HP and LP steam pipework within these projects.

We have also designed & installed the required access and support structures on some of these installations.

Our waste to energy solutions have led to us carrying out the installation of:

- Gasification units & recirculation fans
- Boilers
- Oxidisers and Oxidisation Fans
- ID Fans
- Economisers
- Stacks
- Interconnecting ductwork
- Associated support and access steelwork
WATER TREATMENT & PROCESSING
Design and build of complex water processing and treatment plants

Solutions to the consumption of, or the discharge of water or trade effluent is concerned. These systems can reduce these burdens by implementing advanced techniques to recycle the effluent streams.

Processing your contaminated and dirty water to remove the following:

- Suspended inert solids
- Emulsified Hydrocarbons
- Organic Compounds
- Alkaline Earth Metals
- Heavy Metals
- Sulphates
- Divalent and higher cations
- Arsenic, Bacteria, Algae and Larvae
- Radionuclides
- Chemical Oxygen demands

WATERWAYS AND DREDGING EQUIPMENT
Barges and Diggers for the transportation of silt and debris

Roltech Mechanical Limited have fabricated a number of barges for the transportation of river silt and debris, as well as diggers used to dredge the miles and miles of canals and rivers that lay within the English landscape.

These have ranged from 13 to 26 metres long.

We can also fabricate dredger boats complete with pumping systems that can be used for cleaning harbour areas along with pumping sand from lagoons.

One of our larger projects that we have recently fabricated was a wave breaker that was 26 meters long by 4 metres wide weighing some 58 tonnes, being used to protect the boats within a luxury harbour in the south of England.
DUCTING AND PIPEWORK
From Stainless Steel to large diameter transition pieces in varying sizes

With our team of in-house detail design engineers, we excel in supplying cost effective, bespoke ducting and pipework solutions, from site conception to final design and installation. Our trained sheet metal workers and fabricators have the capability to manufacture all types of light through to heavy fabrications and are capable of working with galvanised, stainless & mild steel.

Roltech Ducting and Pipework Services specialise in all aspects of the following:

- Dust / Fume Extraction
- Heated Duct Systems
- Air Handling Units
- Ventilation
- Extraction
- Spray Booths
- All types of Ducting / Ductworks
- General Sheet Metal Works
- Heating Cabinets / Drying Equipment
- Relocation & Refurbishment of existing plant

POWER TRANSMISSION
A comprehensive drives service from a single source

We have in-house facilities to design and fabricate drive component mounting beds for projects requiring drives, complete with mounting frames. Specifying and supplying complete new drive systems, incorporating ATEX standards where applicable, or replacing existing drives with modern energy saving, high efficiency units.

Systems can be supplied complete with all-drive train elements including:

- Motors
- Gearboxes
- Couplings
- Bearings

Several companies have already benefited from the reliable and fast response we are able to offer, which includes 24 hour site availability in order to minimise client production downtime due to drive breakdowns.
ELECTRICS AND CONTROL

Seamless solutions from concept to commissioning

Roltech electrical division oversees the design and development of the electrical contracts across all areas of the Roltech business.

Roltech is an all-round provider of in house turnkey projects, encompassing the complete mechanical and electrical design and installation package.

An integral part of the Roltech Group, the electrical division provides a complete in-house mechanical and electrical design, manufacture and installation service, together with a support package offering customers the reassurance that their projects are being handled professionally and efficiently, whilst ensuring the safety of all personnel, at all times.

The division is also active in helping to develop innovative new technologies, for the process of converting waste materials into recyclable energy and fuel for a wide range of industries.
24/7 Service

Our on-site support services are a vital element to what we offer as part of our materials handling solutions. With many years experience, Roltech Mechanical provide an on-going commitment to our clients in providing professional and responsive maintenance and support services. We offer full on-site services, using skilled and trained operatives to carry out installations and 24 hour maintenance work in both mechanical & electrical undertakings.

All operatives are fully trained in compiling on-site risk and method statements and all vans and equipment come complete with the health & safety register specific to the operatives and the van’s equipment for easy auditing on site.

Roltech Mechanical Limited
The Acorn Works
Holditch Road
Lymedale Business Park
Newcastle-under-Lyme
Staffordshire
ST5 9JA

Telephone: +44 (0) 1782 566523
Email: sales@roltechltd.com
Website: www.roltechltd.com