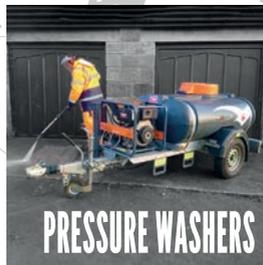
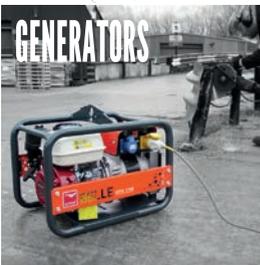




BELLE  
LIGHT  
CONSTRUCTION  
EQUIPMENT



# UK Product Catalogue 2021-22



## More Than Just A Mixer!!

Altrad-Belle.com





**BELLE  
LIGHT  
CONSTRUCTION  
EQUIPMENT**

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Part of the Altrad Group

All previous catalogues and prices mentioned within are cancelled from the date of this present catalogue.

A copy of the terms and conditions of sale is available on request from any of Altrad Belle's sales departments and is available online at [www.Altrad-Belle.com](http://www.Altrad-Belle.com)

Altrad Belle reserves the right to alter prices at any time without notice. The prices charged will be those current at the time of dispatch. Prices do not include VAT.

All parts or machines supplied by Altrad Belle are covered by the Altrad Belle standard warranty policy, a copy of which is included with the standard terms and conditions.

#### QR Codes

Throughout this book you will find a number of QR Codes (Quick Response Codes) which you will be able to scan into your smartphone. Once you have scanned the QR Code, you will be taken to the product page of our website ([www.Altrad-Belle.com](http://www.Altrad-Belle.com)) for that particular product. There, you will find even more information on the product, links to an image library as well as downloadable brochures, operators manuals and videos.

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Altrad Group founder Mohed Altrad

The Altrad Group was founded in 1985 when Mohed Altrad acquired Mefran, a bankrupt French scaffold specialist based in Montpellier. In the coming years he helped rescue this failing company, in the process starting the Group strategy of purchasing failing companies, then turning them around.

Altrad in 2021 is a global leader in the provision of industrial services, generating high added value solutions principally for the Oil & Gas, Energy, Power Generation, Process, Environment and Construction sectors. The group is also a recognised leader in the manufacturing of equipment dedicated to the Construction and Building market.

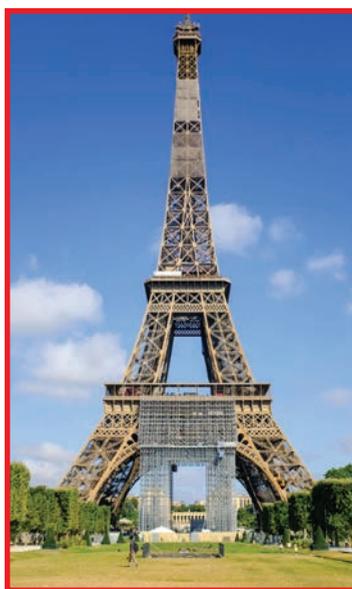
Altrad's multidisciplinary services range from engineering and technical services to maintenance, access solutions and specialised services for industry leaders.

The Group, with its headquarters in France, employs around 42,000 people worldwide and owns established international brands including Cape, Hertel and Prezioso Linjebbygg.

With over 130+ subsidiaries globally, the AltradGroup is now the world leader in the provisions of industrial services, the largest manufacturer of concrete mixers in the world and the largest manufacturer of system scaffolding and wheelbarrows in Europe.



Altrad Services secured a contract on the Clair Ridge Platform part of an offshore oil field in Scottish territorial waters north of Scotland



Altrad scaffolding erected on the forecourt of the Eiffel tower, as part of the preparation of the monument's 20th painting campaign

## ALTRAD GROUP HISTORY

- 2020** – Adyard LLC (*Abu Dhabi*)
- 2017** – Cape (*UK, Middle East*)
- 2016** – Prezioso (*France*)
- 2015** – Hertel Group (*Netherlands*), Dessa (*UK*)
- 2014** – Acquisition of Profix (*Belgium*), Star Event (*UK*)
- 2013** – Acquisition of Spectra, Trad (*UK*)
- 2012** – Acquisition of Generation & MTD Scaffolding (*UK*), Poujaud & Jalmat (*France*), Hofmaninger (*Austria*), Bragagnolo (*Italy*), Atika (*Germany*), Servindustria (*Spain*), Socacen
- 2011** – Acquisition of Agrimotor (*Hungary*), Rodisola (*Spain*), AnD (*Belgium*), Beaver 84 & NSG (*UK*)
- 2010** – Acquisition of Limex (*Croatia*)
- 2009** – Acquisition of Belle Group (*UK*)
- 2006** – Development of the service activity with the takeover of Balliauw (*Belgium, France, Netherlands*)
- 1997** – Development of activities in Europe (*through the creation of new subsidiaries and targeted acquisitions*)
- 1990** – Strong development of activities on the French territory
- 1989** – Takeover of Altrad Saint Denis (*manufacturer of concrete mixers*)
- 1987** – Start of production of equipment for local authorities
- 1985** – Creation with the takeover of Mefran (*specialised in scaffold manufacturing*)



# ALTRAD GROUP



## INDUSTRIAL SERVICES



### *Oil & Gas Offshore / FLNG*

*Altrad Services has been providing a wide range of essential services to the offshore Oil & Gas industry. Our deep experience in working on our customers' high-value critical assets in some of the most challenging and remote locations on the planet ensures we are a vendor of choice for international oil majors, national oil companies, independent Oil & Gas producers and oilfield services companies operating in the offshore environment.*



### *Oil & Gas Onshore / LNG*

*Altrad Services offers a wide range of critical services to the Oil & Gas onshore industry and to the petrochemical sector. We have taken part in a number of projects, always providing practical and reliable solutions, capable of maximising new-build or maintenance programmes.*



### *Nuclear / Power Generation*

*Altrad Services provides a wide range of industrial services and solutions in support of the construction and maintenance of high-value, super-critical nuclear power generation assets. In addition, we provide services in support of other technologies in the power generation segment: conventional fossil-fuel, but also research laboratories, storage laboratories, submarines, etc.*



### *Process Industry*

*A process-type industry implies sophisticated processes in which raw materials undergo a specific chemical and/or physical transformation. This type of activity comes with major demands, and Altrad has great experience in working in these specific process environments. The most significant fields in which our teams have been involved over the years are linked to the pharmaceutical, agro-food, chemical, biochemical and mechanical processes.*



### *Naval, construction and others*

*Altrad Services provides a range of industrial fabric-related services and solutions to many different customer segments outside of our core markets.*

*The principal market sectors we serve with our range of industrial fabric-related solutions are mostly based in Europe and cover the following sectors:*

*Infrastructure (bridges, tunnels...),  
Naval, both civil and defence (including ships, boats, vessels, tankers, aircraft carriers and submarines),  
Other industries.*



### *Renewable Energy*

*Not only does Altrad Services contribute to the construction and maintenance of "conventional" power and electricity generation sites; the company also takes part in the energy transition by supporting the latest technologies. We are therefore notably involved in sites such as hydroelectric power stations and wind farms, both for their construction and maintenance.*

*Hydropower, wind, solar (photovoltaic and thermal), biomass and geothermal energy are inexhaustible energy flows. This portfolio of renewable energy projects of Altrad Services has become very important.*

# ALTRAD GROUP



## EQUIPMENT & PRODUCTS

### SCAFFOLDING

Through its specialised subsidiaries, the Altrad group designs, manufactures and provides high quality, innovative scaffolding systems, oriented towards technically safe solutions to suit the needs of its customers.

Our access equipment is notably aimed at industrial service provider companies. It is suitable for work on engineering structures and historic monuments, as well as shipyards, oil refineries, petrochemical installations and nuclear power plants.

Our range also includes scaffolding for the building and construction industry and public works. It is suitable for masonry, timber framing and stone cutting projects. Our most loyal customers therefore include craftsmen as well as distributors, rental and installation companies and event agencies.

Our scaffolding conforms to the strictest health & safety and quality rules: it complies with all norms and decrees applicable in the countries in which it is manufactured and distributed. We have a wide range of equipment, including façade and multi-directional scaffolding, lifting platforms and all associated accessories.



### STREET FURNITURE & PRODUCTS FOR PUBLIC AUTHORITIES

The Altrad group proposes a very large choice of street furniture for the public sector, contributing to a community approach in the interests of the general public. Our teams select and propose suitable elements for all types of public authorities to equip and furnish their public areas, with a constant concern for optimal value for money.

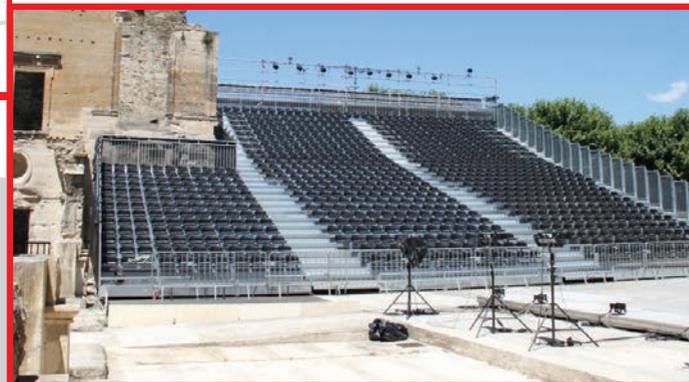
The Altrad group carefully selects its furniture range for indoor and outdoor use based on quality and resistance criteria to ensure compliance with all mandatory standards applicable to public authorities.

### CONSTRUCTION

The Altrad group is a leader in the sector of products for the building and construction industry: top manufacturer of concrete mixers and wheelbarrows, it also designs, manufactures and distributes props and shorings, formwork equipment, compaction equipment, cutting tools, pumps and concreting tools.

The originality of the Altrad group's construction product offering lies in its quality and innovative nature as well as in its diversity and the ability to adapt to customer requirements:

Our teams are committed to the design and continuous improvement of our products. They also rationalise our production processes to ensure reliability, thereby improving productivity at the same time. Products are sent out for prolonged field trials & testing with customers as well as on-site destruction testing. The fruits of these efforts can then be shared with our customers.



We have products for all uses and all requirements. Our offer is mainly aimed at major construction and public works companies, small and medium sized businesses, craftsmen and DIY customers, equipment traders and resellers.

## GROUP VALUES

### HUMAN VALUES OF THE ALTRAD GROUP

The growth of our business is founded on strong values upheld by each and every member of the group.

#### RESPECT

We accept the responsibility as a group and as individuals to prevent situations that jeopardise the health and safety of everyone at our workplaces. We treat people with consideration, regardless of their position. We conduct our business in accordance with exemplary standards of transparency, integrity and honesty.



We hold a deep sense of responsibility towards all of our stakeholders and the environment we work in.

#### SOLIDARITY

Solidarity is about teamwork and reliability. We collaborate and contribute to the different projects we undertake together by sharing ideas and opportunities, knowledge and resources.



We support each other and stand up for each other. We always foster open and collaborative relationships and we put the common good before personal interests.

#### COURAGE

We are eager to reach out beyond new boundaries and we are willing to explore innovative ways of thinking and working. What we do is therefore not easy: we are entrepreneurs and thus take risks and challenge ourselves permanently.



Our objective is always to achieve the best outcome despite the difficulties.

#### HUMILITY

We are open to differing points of view and are convinced that we can learn from anyone, anywhere. We always act and lead in a manner that expresses a spirit of inclusion. We tend to learn from mistakes and successes in equal measure and, above all, we never underestimate our competition.

For every project, we seek and provide honest feedback to reach our goals by continuous improvement.

#### CONVIVIALITY

Every day, we try to create a work environment that reflects the spirit of our teams, based upon commitment and openmindedness. Together, we know how to share and to collaborate in a convivial spirit.



We also celebrate success and combine functional excellence and cross-functional teamwork to produce exceptional ideas and results.

*"In defining and choosing the values that it proposes to embody and defend, a group puts forward the responsibility to which each of its members engages, both for themselves and above all in relation to others"*

*Mohed Altrad*

# ALTRAD BELLE



Altrad Belle, the **No.1 for Light Construction Equipment**, combines design and manufacturing expertise to present the most comprehensive range of tools to the construction industry. Our focus on engineering quality makes our portfolio of: **- Compacting, Mixing, Concreting, Cutting, Breaking, Moving, Generators, Pressure Washers and Wheelbarrows** the established brand it is today.



With over 50 years' experience in equipment designed for the construction and rental industries, Altrad Belle now supplies a truly global market from our headquarters in the UK. Intensive product development, which includes computer-aided simulation and physical life-cycle testing, provides industry leading equipment with advances in Health and Safety features as well as performance.

Our aim is to provide our customers with a range of equipment to meet the demands of the toughest construction site or rental fleet use. Altrad Belle's field support teams are always on hand to provide its customers with total solutions from the Altrad Belle product range.

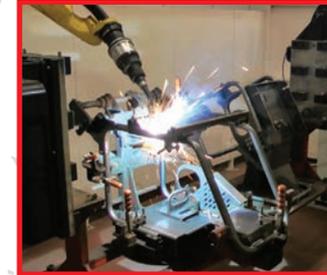


## WORLD CLASS ENGINEERING

At Altrad Belle we are always striving to offer the best quality products to our customer base. To achieve this, there has been significant investment in new production equipment in recent years on such things as automated welding machines and state-of-the-art laser cutting technology.



Trumpf Punching Machine



Automated Twin-Welders



Bystronic Laser Cutter

## DEVELOPMENT & TESTING

Altrad Belle has its own in-house R&D Centre where products are developed and tested to meet industry needs across each different market throughout the world.

Altrad Belle has extensive experience of designing and operating machinery in Europe and around the World, ensuring highest quality standard and conformity to health and safety requirements. All Belle machines are in conformity with UKCA legislation, on specific safety issues such as hand-arm vibration levels, as well as on noise levels and other security standards.

Using computer aided simulation and physical life-cycle testing ensures that our products have undergone the most stringent challenges before they go into production and are in our own words 'fit for hire'.



Plate Compactor Test Rig



CAD Stress Analysis



Reversible Plate Test Rig

# ALTRAD BELLE HISTORY



1961's

The history of Belle dates back to 1961 when founder Doug Blackhurst wanted to buy a cement mixer to help build his new house. No small portable cement mixers existed, so he set about designing one. The result is the now famous Belle Mini Mixer.

From his own initial use, Doug started manufacturing the Mini Mixer for local tool hire shops at a time when tool and plant hire services were just beginning to develop for the building and construction industry. This fast expanding tool hire business added to the growing demand and the success of the Mini Mixer continued to grow throughout the 70's and 80's.

## DID YOU KNOW?

Whilst Doug was building the house for his family to live (using one of the first produced Mini Mixers), they temporarily lived on an old bus which had the destination of Belle Vue... from here the name 'Belle' Engineering was born.



1990's

After the success of the Mini Mixers, the company began to diversify into other areas of the construction market to compliment its Mixer range.

A range of Generators was launched and in 1990 production of the Skid Steer Loader range commenced.

The 1990's also saw a number of acquisitions which lead to an increase in product ranges. The Group could now offer a wide range of over 100 different types of machinery within the following key areas of construction: Compacting, Mixing, Concreting, Cutting, Surface Preparation, Breaking & Moving.



2000's

Although, in 2004 as part of a restructuring process, it was decided to cease production of the Generator range, the Surface Preparation range and the Skid Steer Loader's so that more emphasis could be placed on other areas of the business.

The company continued to grow within the areas it was focussing on both in the UK and abroad and as a result, in 2008 Belle was rewarded for its success in the export market, when the company was presented with the highly coveted Queen's Award for Enterprise in International Trade.



The bus from which 'Belle' was given its name



2009

2009 heralded a new beginning for the company as the Altrad Group completed the purchase of the Belle Group, thus ending over 50 years of independent ownership by the Blackhurst family.

With this the BarDmix range of mixers was integrated into the Altrad Belle range and also came the addition of Wheelbarrows and Scaffolding to the company's portfolio.

However, as the group acquired more Scaffolding companies with the UK over the next couple of years Scaffolding was removed from the Altrad Belle range.



2010's

The decade saw considerable investment into the product portfolio with the launch of the dramatically improved Trench Rammer range and Twin-Drum Roller range as well as continuous improvement to the compaction range as a whole to reduce HAV levels and emissions. With this came the introduction of our ECO Electric Plate Compactors in 2014.

In 2017 the company saw an opening in the market and diversified with the introduction of a new Pressure Washer range, which would eventually include a Bowser Pressure Washer.

It was also decided to re-introduce Generators back into the portfolio with the launch of the GPX open-set range.



2019

2019 saw the launch of the one of the most exciting additions to the portfolio when the DX 1000HT 1-tonne, hi-tip dumper was unveiled.

The Dumper hit the market and was gratefully received by core customers and new customers alike and was hailed as the 'New No.1 Best in Class' setting new standards for safety, strength, operator comfort and productivity on site. It also showed the Altrad Groups commitment to local employment and design, development & manufacturing here in the UK.

## HISTORY OF LOGOS



Earliest logo used.



Logo from early 90's when we became a Group after the acquisition of Errut & Panther.



Logo from late 90's



Logo used in 2010 after the Altrad takeover which kept the Belle name but used the Altrad style logo.



Logo used mid-2010's to slowly integrate the Altrad name over time whilst keeping the Belle name.



Current logo which has been used since the Altrad Group rebrand in 2017.



## UK SALES TEAM



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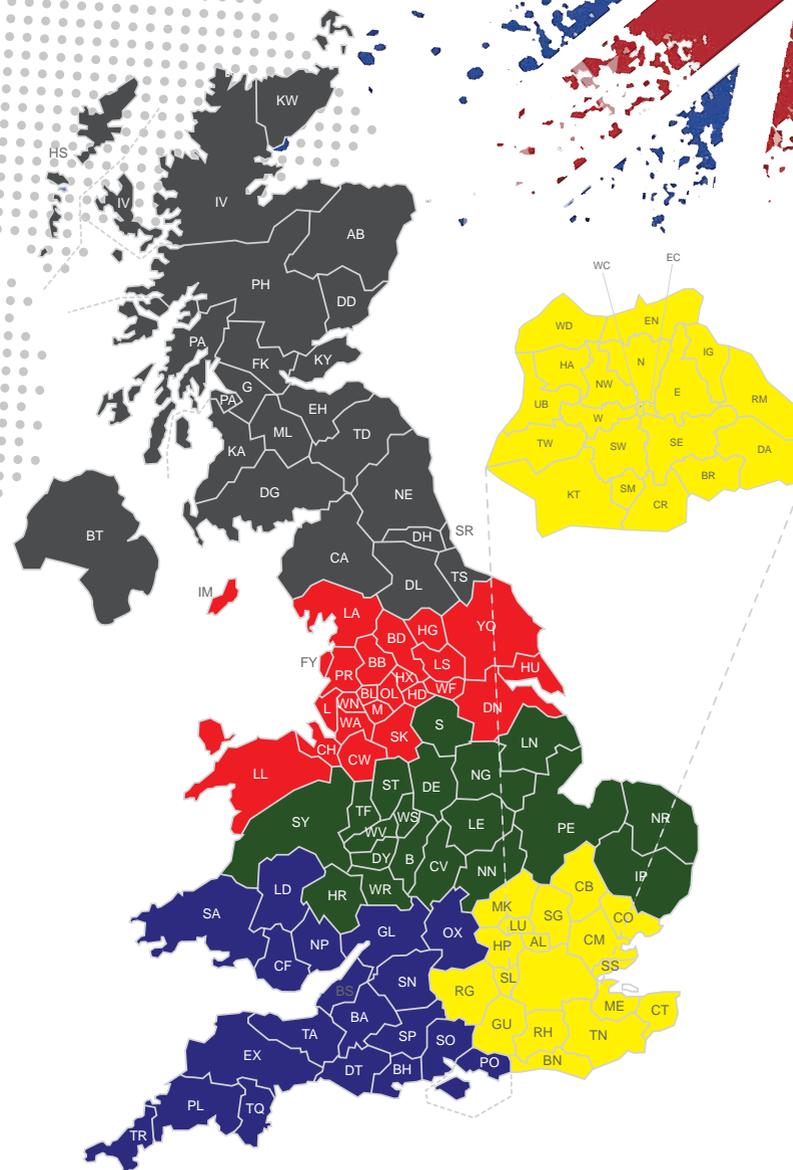
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# SOCIAL MEDIA

**LIKE & FOLLOW OUR**

**SOCIAL MEDIA CHANNELS**

At Altrad Belle, interacting with our customers and providing great customer service is a top priority. This is why we have company profiles across a number of social media channels.



By following us on our Social Media platforms you will receive the latest news and information on our extensive product range, as well as being the first to know of any forthcoming product launches and any job vacancies that have opened-up within the company.

It also gives a gateway to get in contact with us if you have a query about any of our products, or the business as a whole.

-  @AltradBelle
-  @AltradBelle
-  Altrad Belle
-  @altradbelle
-  @Altrad Belle



[www.Altrad-Belle.com](http://www.Altrad-Belle.com)

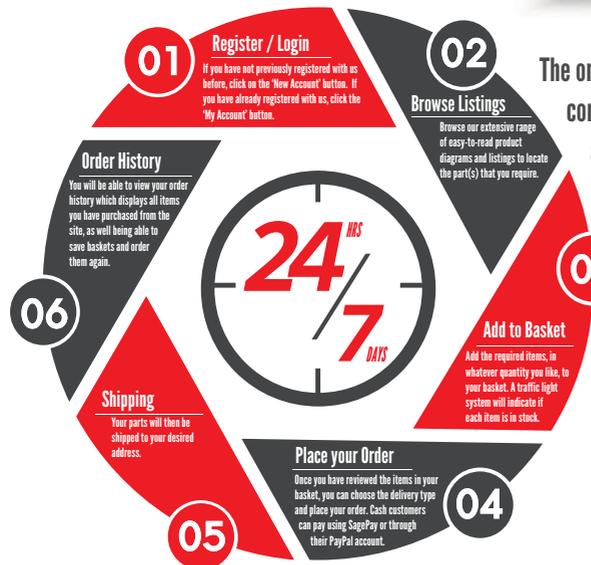
 <p><b>COMPANY &amp; PRODUCT INFORMATION</b></p> <p>The website includes information about Altrad Belle and its history as well as current news and contact details.</p> <p>There is also a general overview of all products within our range as well as a comprehensive list of Features &amp; Benefits and Technical Specifications to help you get to know each product as well as possible.</p>	 <p><b>PRODUCT BROCHURES</b></p> <p>Product brochures are available that include relevant technical information about each product.</p> <p>Each brochure can be downloaded in PDF format, to give you access to product information without access to the internet.</p>	 <p><b>OPERATORS MANUALS</b></p> <p>Operators Manuals that include information on how to safely utilise and maintain our products are available to download.</p> <p>They are easily misplaced once the product has been unwrapped and used, but all Operators Manuals can be downloaded in PDF format to keep forever.</p>	 <p><b>PRODUCT VIDEOS &amp; PHOTOS</b></p> <p>A selection of product videos can be viewed and downloaded on from the website, as well as having links to the videos on our YouTube channel.</p> <p>A studio image and action image of each product is also available to view and download in JPG/PNG format.</p>	 <p><b>HINTS &amp; TIPS AND FAQ'S</b></p> <p>These sections include a number of small snippets of information that will help you get the best performance from your Altrad Belle machine as well as solutions and answers to the questions which are on everybody's lips.</p>
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# AFTER SALES AND CUSTOMER SERVICE

## ONLINE PARTS ORDERING

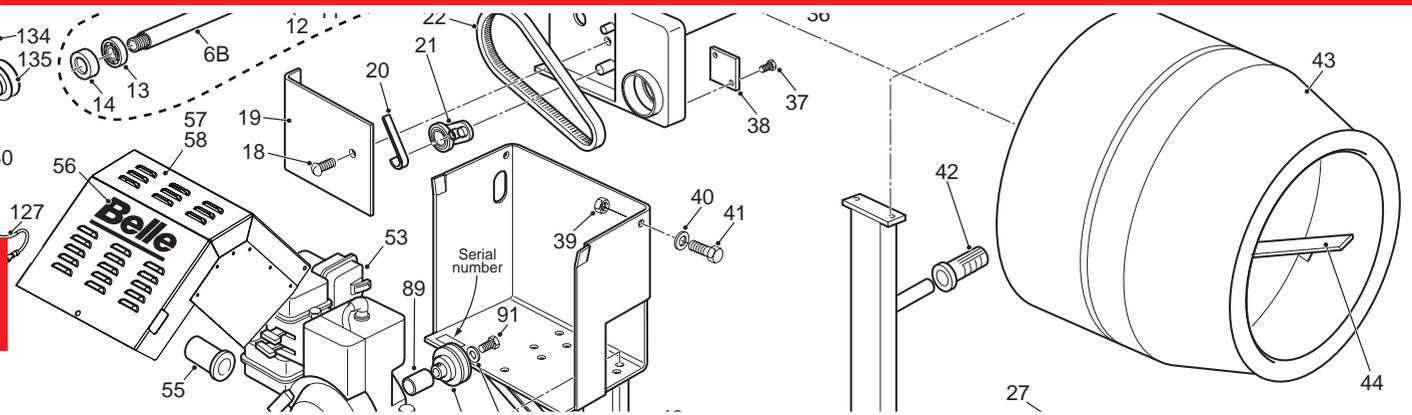
For almost a decade **Altrad-Belle247.com** has been a huge factor behind our successful After Sales and Customer Service operation. The platform allows our customers the ability to view our extensive catalogue of online parts lists in a seamless and efficient way, ensuring they can place an order with the minimum of fuss.

As well as comprehensive line drawings of each product, there is a large selection of photos available to help select the correct part.



The online portal has been designed to be compatible with all of the latest web browsers and mobile operating systems, so you can browse the listings and place an order on your tablet or mobile device from anywhere in the UK....

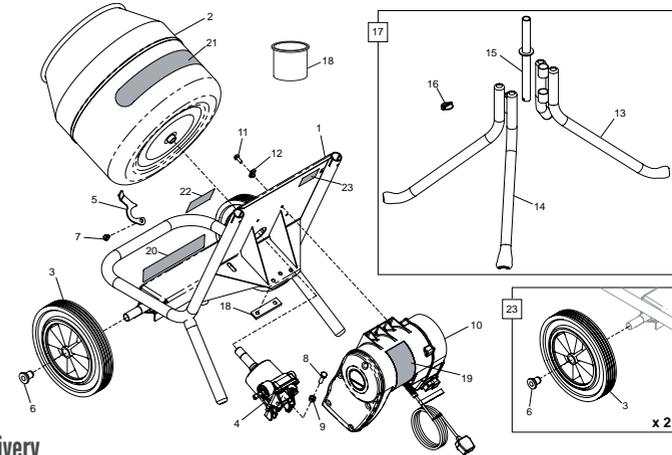
## 24 hours a day, 7 days a week!



NO.1 FOR SPARE PARTS

Our dynamic and proactive Customer Service Department provides an exceptionally high level of customer service on a global scale. Altrad Belle Sales' Administration Department will provide you with an optimum service with:

- Timescale requests
- Machine availability & stock management
- Fast & simple procedure for setting up of accounts
- Despatch & delivery
- Follow up of orders
- Follow up of logistics: sending orders as soon as possible and in the best conditions & follow up of the delivery.



Downtimes and delays are hugely costly to the customer, therefore we are committed to delivering spare parts or carrying out service repairs as quickly as possible.





# THE ENVIRONMENT

## THE GOVERNMENTS REGULATIONS

Being located in the heart of the Peak District National Park, the environment has always been a major consideration for Altrad Belle when looking at its manufacturing operations. This has driven many of the systems and processes Altrad Belle has adopted, even before these issues became a major consideration for companies when looking at their chosen business partners and suppliers.

In 2006 Altrad Belle began the acceleration of recycling its waste and increasing energy management initiatives. All of these areas are operated and maintained in an environmentally friendly way, with the main goal being a 'zero to landfill' policy.

The company complies with all legislation regarding waste packaging and hazardous waste, and has all the necessary registrations in place and in July 2006, Altrad Belle received a UK award to show the way in which the company had improved health and safety, environmental standards.

## WASTE REDUCTION AND RECYCLING



Altrad Belle has rationalised the waste stream within its operations by taking a full review of all its activities.

In 2012 Altrad Belle managed to achieve the target of a 'zero to landfill' policy in conjunction with our new Waste Management Partner. This also has the added benefit of reducing cost as well.

Altrad Belle has strived to move all of its packaging process to recyclable materials. Incoming packaging is specified to be reusable or recyclable wherever possible. All waste generated this way is then segregated on site and recycled appropriately through a joint agreement with a waste management specialist. Process scrap waste comes mainly in the form of recyclable materials such as steel off-cuts waste, oils and plastics. These are again separated and recycled.

During 2012, Altrad Belle also reduced the recycling and waste transport range to less than a 12 mile radius with the end product being used for secondary fuel at a local company.

In 2017 as part of our continuing environmental efficiency drive we have recently further improved our costs and the Carbon footprint of our general waste solution. Along with our long-term recycling partners, Peak Waste, we have removed from site the static waste compactor and as a replacement we have installed a large capacity portable alternative.



The outcome of this is a load size increase from 14 to 35 cubic yards per lift. This will effectively reduce the removal of general waste trips by 2.5 times so not only the cost of transport but also the transport footprint is considerably reduced.

The cost of the compactor has been reduced along with the maintenance, servicing costs and carbon footprint as these are carried out when the machine is taken for emptying to the local depot rather than an engineer travelling from further afield to carry out any servicing or repair function.

## ENERGY

In conjunction with the Carbon Trust, Altrad Belle has adopted best energy management practices with the target of reducing both greenhouse gas emissions and costs on a yearly basis. The measures being taken include amongst others, energy monitoring, inhouse energy watching, optimising equipment usage, workforce involvement, awareness training and the use of external consultants. Our aim is to reduce our ongoing energy usage by 5% per year.

Altrad Belle has also recently begun the installation of energy-efficient LED lighting throughout the factory and offices. Not only do they reduce the carbon footprint, LED's do not contain mercury so don't require special recycling or disposal procedures. Also, from a Health and Safety point of view, LEDs produce "cold" light, reducing the risk of burns and fire hazards.

6 Fast-Action Roller Shutter Doors have recently been installed which has resulted in a 60% improvement on heat loss throughout the factory, as well as new insulation being fitted to the main office roof leading to an 80% saving on heating in the offices. Soft-start motors have been installed on the shotblaster which will reduce the energy-spike on start-up, therefore reducing the amount of energy used to operate the machine.

As part of a large investment into the production facilities, a new powder paint plant will be installed in August 2021 which will reduce energy consumption by up to 40% compared to the current powder paint plant. The new plant also includes an internal filtration/ extraction system that will eliminate the escape of excess powder paint into the atmosphere.

## ENVIRONMENTAL POLICY

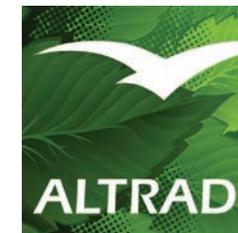
When selecting suppliers, vendors and contractors, Altrad Belle takes account of their environmental performance.

Altrad Belle will adopt 'waste free' objectives on all its sites. Where waste is generated, reuse programs or recycling will be introduced where possible. Altrad Belle is also committed to reducing levels of water and energy consumption used by its operations in line with the government's 'Climate Change' policy. As part of this all toilets have had water management systems installed which will help to reduce the water usage by up to 75%

This is part of Altrad Belle's commitment and ongoing mission to reduce the environmental impact of manufacturing and industry. Our ambition is high and our future is Green.

## ELECTRONIC DOCUMENTS

In the bid to become greener and more eco friendly, we have now introduced electronic documents. Customers can now sign up to receive these online rather than the standard paper copies.



**BUILDING A SUSTAINABLE FUTURE**

# HEALTH AND SAFETY

At Altrad, 'Health and Safety' is more than just a priority. It is a value that is not open for discussion: for that reason, safety underpins every decision we make and every action we take. On a day-to-day basis, we strive, with our employees and partners, throughout all our facilities, operational worksites and offices, to achieve the very highest safety standards.



## SAFETY GOLDEN RULES

NO.1 FOR HEALTH AND SAFETY

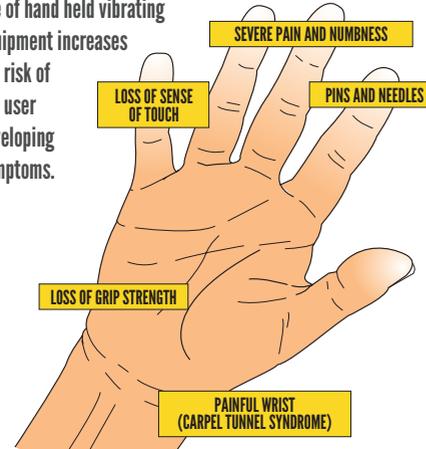
Our safety Golden Rules are part of a continuous programme to embed safety within our culture. They embody our commitment: thus, with our employees and partners, we strive to achieve the very highest safety standards, whatever the situation.



## HAND-ARM VIBRATION

### What is Hand Arm Vibration?

Hand Arm Vibration Syndrome (HAVS) is the term used to describe medical conditions caused by hand held tools that induce vibration in the user. These medical conditions include Carpal Tunnel Syndrome, Vibration White Finger, impaired blood flow in the hands, reduced strength in the arms and fingers and increased sensitivity. Early symptoms include finger numbing & pins and needles but can progress to pain in the wrists, arms, elbows and shoulders followed by nerve damage, bone and joint disorders and in extreme situations cause gangrene. The damage caused is cumulative, that is to say that continuous daily use of hand held vibrating equipment increases the risk of the user developing symptoms.



### Key Messages on Hand Arm Vibration Syndrome

- HAVS is preventable, but once the damage is done it is permanent.
- HAVS is serious and disabling, and nearly 2 million people are at risk.
- Damage from HAVS can include the inability to do fine work and cold can trigger painful finger blanching attacks.
- The costs to employees and to employers of inaction could be high.
- There are simple and cost-effective ways to eliminate risk of HAVS.
- The Control of Vibration at Work Regulations focus on the elimination or control of vibration exposure.
- The long-term aim is to prevent new cases of HAVS occurring and enable workers to remain at work without disability.
- The most efficient and effective way of controlling exposure to hand-arm vibration is to look for new or alternative work methods which eliminate or reduce exposure to vibration.
- Health surveillance is vital to detect and respond to early signs of damage.

### Altrad Belle No.1 for Low Hand Arm Vibration Products

Since machine to user vibration was first identified as a significant problem to the user's health, Altrad Belle have sought to reduce exposure. Altrad Belle engineers have reduced operator vibration on rammers, floor saws and plate compactors without reducing effectiveness. The PCX range of eight hour plus, single direction plate compactors for example, represent our latest vibration control plates. They feature vibration reducing frames, unique base plates, handle isolators and tuned vibrators which deliver class leading performance.

# HEALTH AND SAFETY



All Vibration Level figures quoted within this booklet are Triple-Axis Vibration figures.



## HAND-ARM VIBRATION

NO.1 FOR HEALTH AND SAFETY

### The Governments Regulations

The government, through the Health and Safety Executive, has issued guideline exposure levels for Hand Arm Vibration in the form of The Control of Vibration at Work Regulations 2005 (the Vibration Regulations). The regulation-guidelines state that by 2010, use of vibrating hand-held tools should be strictly limited and where used the tools should perform within guideline values. By law an employer must assess and identify measures to eliminate or reduce risk. Examples of good practice can be found on the HSE website at: [www.hse.gov.uk/vibration](http://www.hse.gov.uk/vibration).

The regulations introduce an Exposure Action Value Limit (EAV) beyond which work rotation is required and an upper limit known as the Exposure Limit Value (ELV) beyond which hand held devices should not be used.

- Exposure Action Value is 2.5m/s<sup>2</sup>, above which level employers should introduce technical and work rotation measures to reduce exposure.
- Exposure Limit Value is 5.0m/s<sup>2</sup> which should not be exceeded in any working day.



### Exposure Action Value (EAV) and Exposure Limit Value (ELV)

The Exposure Action Value is the daily limit to which an employee can be exposed before an employer has to undertake actions to reduce the risk of Hand Arm Vibration.

Beyond the daily Exposure Action Value of 2.5m/s<sup>2</sup> the employer must assess the risk to the employee, introduce a programme of controls, provide a health screening programme, plus provide information and training on the risk to the employee's health and actions to take to reduce exposure.

The Exposure Limit Value (ELV) is the daily maximum amount of vibration an employee can be exposed to. This upper limit will be fully enforced after July 2010 and the transitional period applies to equipment purchased before July 2007. The upper limit can be exceeded during the transition period only after all practicable actions to reduce exposure have been exhausted.

The types of hand-tools that are likely to be of concern include, plate compactors, rammers, floor saws, road breakers and cut-off saws. If an employee is likely to be using several vibration risk tools during their working day then the employer must collect information on the likely personal exposure and trigger time for each tool. Once collected the employer should use the vibration data and exposure times and apply an exposure calculator.



For example, see HSE's vibration web site [www.hse.gov.uk/vibration](http://www.hse.gov.uk/vibration). Alternatively, there is a points system:-

Tool vibration (m/s <sup>2</sup> )	3	4	5	6	7	10	12	15
Points per hour (approx)	20	30	50	70	100	200	300	450

Multiply the points assigned to the tool vibration by the number of hours of daily 'trigger time' for the tool(s) and then compare the total with the exposure action value (EAV) and exposure limit value (ELV) points.

100 points per day = Exposure Action Value (EAV); 400 points per day = Exposure Limit Value (ELV)

The above is for guidance only and employers/employees should consult with their own Health & Safety experts for further clarification.

Model	Part Number	HAV Level (m/s <sup>2</sup> )	Trigger time to reach EAV level 2.5	Trigger time to reach ELV level 5.0	Weight (kg)
PCEL 320X Honda	ELX3201	4.43**	2 hours 33 mins	10 hours 11 mins	49
PCEL 400E 110v	ELE4001	4.43**	2 hours 33 mins	10 hours 11 mins	48.5
PCLX 12/40E 110v	LCE4001	3.97**	3 hours 10 mins	12 hours 41 mins	50
PCLX 16/45E 110v	MCE4501	3.04	5 hours 25 mins	21 hours 38 mins	97
PCLX 320 Honda	LC3251	2.42**	8 hours 32 mins	More than 24 hours	62
PCLX 400 Honda	LC4051	2.48**	8 hours 8 mins	More than 24 hours	66.5
PCLX 320 Streetworks	LX3251	2.14**	10 hours 55 mins	More than 24 hours	65
PCX 12/36 Honda	FC3600E	4.74**	2 hours 14 mins	8 hours 54 mins	81
PCX 13/40 Honda	FC4000E	3.20**	4 hours 53 mins	19 hours 32 mins	83.5
PCX 16/45 Honda	MC4501	2.87	6 hours 4 mins	More than 24 hours	90.5
PCX 16/50 Honda	MC4551	2.87	6 hours 4 mins	More than 24 hours	91.5
PCX 20/45 Honda	FC4500E	3.5	4 hours 5 mins	16 hours 20 mins	91
PCX 20/50 Honda	FC5000E	3.5	4 hours 5 mins	16 hours 20 mins	97
PCX 60A Honda	PCU02	4.9	2 hours 5 mins	8 hours 20 mins	68.5
PCX 17/50A Honda	PCA01	6.21	1 hour 18 mins	5 hours 11 mins	89
RPX 35 Petrol	See Page 42 - 43	3.1	5 hours 12 mins	20 hours 49 mins	See Page 42 - 43
RPX 35 Diesel	See Page 42 - 43	2.4	8 hours 41 mins	More than 24 hours	See Page 42 - 43
RPX 59 Petrol	See Page 44 - 45	3.1	5 hours 12 mins	20 hours 49 mins	See Page 44 - 45
RPX 59 Diesel	See Page 44 - 45	2.4	8 hours 41 mins	More than 24 hours	See Page 44 - 45
Duo 350X Honda	DSXA01	3.6	3 hours 51 mins	15 hours 26 mins	120
Compact 350X Honda	CSXA01	2.80**	6 hours 31 mins	More than 24 hours	96
BHB 25X Breaker	BHB25XS	6.50**	1 hour 11 mins	4 hours 44 mins	25



**COMPACTING**  
FORWARD PLATES, TRENCH RAMMERS, REVERSIBLE PLATES, TWIN-DRUM ROLLERS



HONDA

## MPC 300

### LIGHTWEIGHT FORWARD PLATE COMPACTOR

A LIGHTWEIGHT PLATE COMPACTOR OFFERING EXCELLENT PORTABILITY AND MANOEUVRABILITY. THE MINIPAC IS IDEAL FOR DIY AND LIGHT PROFESSIONAL APPLICATIONS.



NO.1 FOR COMPACTING

### FEATURES & BENEFITS

- The lightweight and compact design allows the user to easily manoeuvre and transport the machine - will fit into a small car.
- Light enough to allow the operator to manually reverse the plate.
- Effective compaction is achieved through the use of a 'Dual Force' baseplate.
- Compact size means the machine is well suited to confined areas.



Compact & Lightweight Design



Fold-Down Handle



Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (Kg/m <sup>2</sup> )	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration level* (m/sec <sup>2</sup> )	Weight (kg)
Minipac 300 - GXH50 Honda Petrol	MPC01	2.5 - 1.8	300 x 470	513.4	3.25	12	7.11*	32

\* Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Model	Part Number
Block Paving Pad - Minipac 300	MP03

# PCEL 320X

## SUB 50KG FORWARD PLATE COMPACTOR

A LIGHTWEIGHT PROFESSIONAL COMPACTION PLATE WITH LOW HAND ARM VIBRATION AND HIGH PERFORMANCE COMPACTION. SPECIFICALLY DESIGNED TO OFFER EXCELLENT PORTABILITY AND MANOEUVRABILITY ON SITE. THE IDEAL "PATCHING" PLATE.



### FEATURES & BENEFITS

- Low Hand Arm Vibration design for longer, safe usage times.
- High performance 11kN vibration unit for excellent forward travel speed.
- Sealed oil-filled vibrator with top quality bearings for reliability and durability.
- Front and rear manual handling points for an easy 2-man lift.
- Removable and ultra low folding operator's handle for ease of transportation and storage.
- 8mm thick long life base plate for optimum compaction and reliability.
- Engineered to be robust and durable for rental and heavy contractor use.

NO.1 FOR COMPACTION



Removable fold down handle



Ideal 'Patching' Plate

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
PCEL 320X - Honda GXR120 Petrol	ELX3201	3.1 - 2.3	320 x 364	425	20	11	22	4.43*	49

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number
Block Paving Pad - PCEL 320X	OPP/63/D10



# PCEL 400E

## SUB 50KG ELECTRIC PLATE COMPACTOR

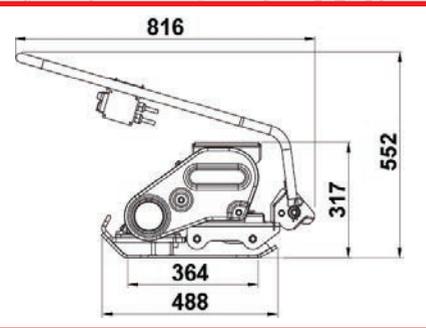
A LIGHTWEIGHT DURABLE COMPACTION PLATE WITH LOW HAND ARM VIBRATION AND HIGH PERFORMANCE COMPACTION. DESIGNED WITH AN ENVIRONMENTALLY FRIENDLY ELECTRIC MOTOR FOR USE INDOORS AND POORLY VENTILATED AREAS.



### FEATURES & BENEFITS

- Low Hand Arm Vibration design for longer, safe usage.
- Environmentally friendly with zero exhaust emissions.
- High performance 10.5kN vibration unit for good travel speed.
- Sealed oil-filled vibrator with top quality bearings for reliability and durability.
- Front and rear manual handling points for an easy 2-man lift.
- Removable and ultra low folding operator's handle for ease of transportation and storage.
- 8mm thick long life base plate for optimum compaction and reliability.
- Class 1 Earthed Appliance.
- Integrated Motor protection guard.
- Block Paving Pad option available.

NO.1 FOR COMPACTION



NOTE:- For use with Extension Cables up to 25M in length. Extension cable is not supplied with the machine.

Model	Part Number	Motor Power (Hp) - (kW)	Minimum Transformer Size (kVA)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration level* (kg/m <sup>2</sup> )	Weight (kg)
PCEL 400E - 110v 50Hz Electric	ELE4001	0.8 - 0.6	3.3	380 x 364	376	20	10.5	18	4.43*	48.5
PCEL 400E - 230v 50Hz Electric	ELE4002	0.75 - 0.55	N/A	380 x 364	354	20	10.5	18	4.43*	48.5

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Description	Part Number
Block Paving Pad - PCEL 400E	OPP/82/D10	PAT Testing Rig	968/01200

## PCLX 12/40E

### LIGHTWEIGHT ELECTRIC PLATE COMPACTOR

A LIGHTWEIGHT PROFESSIONAL PLATE WITH HIGH PERFORMANCE AND TRAVEL SPEED FROM THE 12KN VIBRATION UNIT. DESIGNED WITH AN ENVIRONMENTALLY FRIENDLY ELECTRIC MOTOR FOR USE INDOORS AND POORLY VENTILATED AREAS.



### FEATURES & BENEFITS

- High performance 12kN vibration unit for excellent travel speed and Compaction Force reducing operating times.
- Environmentally friendly, 1.5kW zero emission Electric Motor for use indoors & in poorly ventilated areas.
- Low HAV design allows longer, safe usage times.
- Efficient Electric Motor is ideal for night time & urban usage.
- Centrifugal Clutch for soft start & reduced current surge.
- Professional 16amp power inlets for effective cable management.
- Sealed oil-filled vibrator with top quality bearings for reliability and durability.
- Front & rear manual handling points for easy 2-man lift.
- Removable, ultra low folding operator's handle for ease of transportation and storage.
- 8mm thick long life base plate for optimum compaction and reliability.
- Engineered to be robust and durable for rental and heavy contractor use.
- No fuel/engine maintenance & higher return on investment.
- Class 1 Earthed Appliance.
- Integrated Motor protection guard.
- Block Paving Pad option available.

**NOTE:-** For use with Extension Cables up to 25M in length.  
Extension cable is not supplied with the machine.



Model	Part Number	Motor Power (Hp) - (kW)	Minimum Transformer Size (kVA)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
PCLX 12/40E - 110v 50Hz Electric	LCE4001	2.0 - 1.5	3.3	380 x 364	388	20	12	24	3.97*	50
PCLX 12/40E - 230v 50Hz Electric	LCE4002	2.0 - 1.5	N/A	380 x 364	388	20	12	24	3.97*	50

### OPTIONS

Description	Part Number	Description	Part Number
Block Paving Pad - PCEL 400E	OPP/82/D10	PAT Testing Rig	968/01200

## PCLX 16/45E

### HEAVYWEIGHT ELECTRIC PLATE COMPACTOR

A HEAVYWEIGHT PROFESSIONAL PLATE WITH EXCELLENT PERFORMANCE AND TRAVEL SPEED FROM THE 16KN VIBRATION UNIT. DESIGNED WITH AN ENVIRONMENTALLY FRIENDLY ELECTRIC MOTOR FOR USE INDOORS AND POORLY VENTILATED AREAS.



### FEATURES & BENEFITS

- High performance 16kN vibration unit for excellent travel speed and High Compaction Force reducing operating times.
- Engineered to be robust and durable for rental and heavy contractor use.
- Environmentally friendly, 2.2kW zero emission Electric Motor for use indoors & in poorly ventilated areas. Efficient Electric Motor is ideal for night time & urban usage.
- Low HAV design allows longer, safe usage times.
- Centrifugal Clutch for soft start & reduced current surge.
- Professional 32amp power inlet for effective cable management.
- Large sealed oil-filled vibrator with top quality bearings for reliability & durability.
- Integrated 'Quick Engage' Wheel Kit with Large diameter Wheels to aid transportation on rough terrain.
- 'Quick Locating' Handle Latch for increased stability whilst operating the Wheel Kit.
- 8mm thick long life base plate for optimum compaction and reliability.
- Pull Bar for increased manoeuvrability.
- No fuel/engine maintenance & higher return on investment.
- Class 1 Earthed Appliance.
- Integrated Motor protection frame.
- Block Paving Pad option available.

**NOTE:-** For use with Extension Cables up to 25M in length.  
Extension cable is not supplied with the machine.



Model	Part Number	Motor Power (Hp) - (kW)	Minimum Transformer Size (kVA)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
PCLX 16/45E - 110v 50Hz Electric	MCE4501	3.0 - 2.2	5	450 x 420	517	20	16	27	3.04*	97

### OPTIONS

Description	Part Number
Block Paving Pad - PCLX 16/45E	OPP/89/D10

# PCLX 320 & 400

## LIGHTWEIGHT FORWARD PLATE COMPACTORS

MIDWEIGHT PROFESSIONAL COMPACTION PLATES WITH LOW HAND ARM VIBRATION AND HIGH PERFORMANCE COMPACTION. THE PCLX COMPACTION PLATES ARE DESIGNED FOR CONTRACTING AND RENTAL USAGE.



### FEATURES & BENEFITS

- Low Hand-Arm Vibration design for longer safe usage times.
- Easy to operate and control, the baseplate does not dig in when dragged backwards or turned.
- Tubular frame designed to protect vulnerable components.
- Engineered to be robust and durable for rental and heavy contractor usage.
- Patented baseplate design for optimised speed and manoeuvrability.
- Lightweight yet durable for easy transport.
- Removable, quick-release 12litre water tank.
- Fitted with manual handling points.
- High power 13kN vibration force.



Optional Water Kit



Optional Wheel Kit



NO.1 FOR COMPACTING

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration level** (m/sec <sup>2</sup> )	Weight (kg)
PCLX 320 - Honda GXR120 Petrol	LC3251	3.1 - 2.3	320 x 574	398	20	13	20	2.42*	62
PCLX 400 - Honda GXR120 Petrol	LC4051	3.1 - 2.3	400 x 574	336	20	13	20	2.48*	66.5
PCLX 320 - Honda GXR120 Petrol & Water Kit	LC3251W	3.1 - 2.3	320 x 574	398	20	13	20	2.42*	64
PCLX 400 - Honda GXR120 Petrol & Water Kit	LC4051W	3.1 - 2.3	400 x 574	336	20	13	20	2.48*	68.5

\*OPERC independent testing/Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Description	Part Number	Description	Part Number
Block Paving Pad - PCLX 320	OPP/01/D10	Water Kit - PCLX 320	OPP/51S/D10	Detachable Wheel Kit	OPP/60/D10
Block Paving Pad - PCLX 400	OPP/02/D10	Water Kit - PCLX 400	OPP/54S/D10		

# PCLX 320 'STREETWORKS'

## 'DUAL FORCE' FORWARD PLATE COMPACTOR

A MIDWEIGHT SINGLE DIRECTION PLATE COMPACTOR. WITH OVER 1400KG/M<sup>2</sup> OF COMPACTION, THIS MACHINE EXCEEDS THE HAUC REQUIREMENTS FOR THE REINSTATEMENT OF FOOTPATHS.

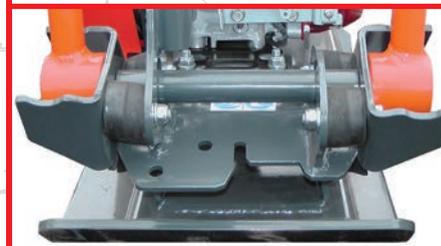


### FEATURES & BENEFITS

- PCLX 320 'Streetworks' - All the features of the PCLX range but with a unique 'Dual Force' baseplate to meet the UK government HAUC requirements.
- The baseplate is made from Strenx™ performance steel with a Hardox® wear plate for added strength and durability.



Unique Baseplate, approved for HAUC



Low HAV mountings



**HARDOX®**  
WEAR PLATE

**STRENX®**  
PERFORMANCE STEEL

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level* (m/sec <sup>2</sup> )	Weight (kg)
PCLX 320 'Streetworks' - Honda GX100 Petrol	LX3251	3 - 2.2	320 x 417	1611	20	13	18	2.14**	65

\*OPERC independent testing/Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Description	Part Number
Detachable Wheel Kit	OPP/60/D10	Water Kit - PCLX 320S	OPP/57S/D10

# PCX 60A

## MIDWEIGHT FORWARD PLATE COMPACTOR

MIDWEIGHT PROFESSIONAL MULTI-PURPOSE COMPACTION PLATE. THE ULTIMATE COMBINATION OF WEIGHT, POWER AND VERSATILITY ENABES THIS PLATE TO PERFORM IN A MULTITUDE OF APPLICATIONS TO THE HIGHEST STANDARD.



### FEATURES & BENEFITS

- 11kN high performance Vibrator for maximum compaction and excellent travel speeds.
- Sealed oil filled vibrator with top quality bearings for reliability and durability.
- Ergonomic operator handle for precise manoeuvrability, includes Pull-Back bar.
- Thickener Plate in rear of Baseplate for increased durability.
- Specially engineered Fabricated Baseplate designed to eradicate 'Track' marks on asphalt.
- Collapsible handle for easy storage & transportation.
- 3 mount HAV system for reduced HAV levels and improved usage time.
- Optional 'Easy-Fit' 12-litre Water Tank & 'Easy-Clean' Spraybar system.
- Durable metallic Water Control Tap for high flow rate.
- Low HAV handles that still allow precision control.
- Optional detachable 'Easy-Fit' Wheel Kit.
- Handle Latch for increased stability whilst operating the Wheel Kit.



Optional wheel kit available



Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
PCX 60A - Honda GX120 Petrol	PCU02	4 - 3	350 x 400	565	20	11	25	4.9*	68.5
PCX 60A - Honda GX120 Petrol c/w Wheel Kit & Water Kit	PCU01	4 - 3	350 x 400	565	20	11	25	4.9*	72.5

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Weight (Kg)	Description	Part Number	Weight (Kg)
Detachable Water Kit	OPP/87/DIO	4.0	Detachable Wheel Kit	OPP/104/DIO	2.5
Block Paving Pad	OPP/65/DIO	1.6			

# PCX 12/36 & 13/40

## HEAVYWEIGHT FORWARD PLATE COMPACTORS

HEAVYWEIGHT PROFESSIONAL COMPACTION PLATES WITH LOW HAV AND VERY HIGH PERFORMANCE COMPACTION. DESIGNED WITH A SHORTER BASEPLATE TO OFFER IMPROVED COMPACTION, MANOEUVRABILITY AND FINISH.



### FEATURES & BENEFITS

- Foldable mounted guide handle offers superior manoeuvrability & can be lowered to operate under obstacles & close to form work.
- Reinforced centrifugal clutch ensures longer belt life, and simplified belt adjustment.
- Angled holes on spray bar allow complete water coverage over the full width preventing any asphalt pick-up on plate bottom.
- Lifting points and front lift cage offer easier loading and unloading for operator convenience.
- Large 9.5 litre water tank is built into the protective frame.
- The spraybar is fully protected from damage, easily positioned, with integral paving pad clamp points.
- Life lubricated vibration bearings.



Water Tank Spray Bar System



Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Width (mm)	Length (mm)	Height (mm)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
PCX 12/36 - Honda GX120 Petrol	FC3600E	4 - 3	360 x 606	586	20	12.25	20	360	720	556	4.74*	81
PCX 13/40 - Honda GX120 Petrol	FC4000E	4 - 3	400 x 606	520	20	13	20	400	720	556	3.20*	83.5
PCX 13/40 - Loncin H135 Petrol	FC4060E	3.5 - 2.6	400 x 606	520	20	13	20	400	720	556	-	83.5

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Description	Part Number
Block Paving Pad - 12/36	OPP/65/DIO	Water Kit - 12/36	OPP/70S/DIO
Block Paving Pad - 13/40	OPP/66/DIO	Water Kit - 13/40	OPP/71S/DIO
Detachable Wheel Kit - 12/36 & 13/40	OPP/74/DIO		

## PCX 20/45 & 20/50

### HEAVYWEIGHT FORWARD PLATE COMPACTOR

A HEAVYWEIGHT PROFESSIONAL COMPACTION PLATE USED FOR SOIL COMPACTION ON NEW DEVELOPMENTS, REPAIRS AND MAINTENANCE JOBS WITH LARGE AGGREGATES, COHESIVE MATERIAL OR MOIST CONTENT. THIS PLATE IS A HARD HITTING BUT USER FRIENDLY MACHINE IN THE HEAVY WEIGHT CLASS.



### FEATURES & BENEFITS

- Compaction all-rounder for soils, asphalt and pavements, a plate with unlimited possibilities.
- The optimum vibratory plate for finishing or patching a surface.
- Highest degree of operator comfort: patented vibration neutralisation of the operating handle.
- Wear and fracture resistant cast base continuous load applications, manufactured out of extremely resistant cast iron (GJS-700)
- The sturdy protective frame makes this plate resistant to rough treatment or mechanical shocks.
- Paving Pad and Wheel Kit Options available.



Optional wheel kit available



Model	Part Number	Engine Power (Hp) - (kW)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Width (mm)	Length (mm)	Height (mm)	Weight (kg)
PCX 20/45 - Honda GX160 Petrol	FC4500E	5.5 - 4.0	463	20	20	26	3.5	450	1167	987	91
PCX 20/45 - Hatz 1B20 Diesel	FC4515E	4.6 - 3.5	585	20	20	25	2.64	450	1167	987	115
PCX 20/50 - Honda GX160 Petrol	FC5000E	5.5 - 4.0	442	20	20	25	3.5*	500	1167	987	97
PCX 20/50 - Hatz 1B20 Diesel	FC5015E	4.6 - 3.5	574	20	20	24	2.45	500	1167	987	120

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Description	Part Number
Block Paving Pad - PCX 20/45	OPP/30/DIO	Water Kit - PCX 20/45	OPP/48S/DIO
Block Paving Pad - PCX 20/50	OPP/32/DIO	Water Kit - PCX 20/50	OPP/49S/DIO
Fixed Wheel Kit	OPP/35/DIO	Detachable Wheel Kit	OPP/50/DIO

## PCX 16/45 & 16/50

### HEAVYWEIGHT FORWARD PLATE COMPACTORS

HEAVYWEIGHT PROFESSIONAL COMPACTION PLATES WITH LOW HAND ARM VIBRATION LEVELS, VERY HIGH PERFORMANCE COMPACTION AND TRAVEL SPEEDS.



### FEATURES & BENEFITS

- Foldable mounted guide handle offers superior manoeuvrability and can be lowered to operate under obstacles and close to form work.
- Reinforced centrifugal clutch ensures longer belt life, and simplified belt adjustment.
- Lifting points and front lift cage offer easier loading and unloading for operator convenience.
- Large 9.5 litre water tank is built into the protective frame.
- The spraybar is fully protected from damage, easily positioned, with integral paving pad clamp points.
- Angled holes on spray bar allow complete water coverage over the full width preventing any asphalt pick-up on plate bottom.
- Life lubricated vibration bearings.



Handle Latch



Integrated Wheel Kit



Model	Part Number	Engine Power (Hp) - (kW)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Vibration Level (m/sec <sup>2</sup> )	Operating Width (mm)	Operating Length (mm)	Operating Height (mm)	Weight (kg)
PCX 16/45 - Honda GX160 Petrol	MC4501	5.5 - 4.0	478.8	20	16	21	2.87	450	1065	995	90.5
PCX 16/50 - Honda GX160 Petrol	MC4551	5.5 - 4.0	435.7	20	16	21	2.87	500	1065	995	91.5

\*Vibration levels tested to BS5349 using EN 500-4

### OPTIONS

Description	Part Number	Weight (kg)	Description	Part Number	Weight (kg)
Block Paving Pad - 16/45	OPP/89/DIO	2.25	Detachable Water Kit	OPP/90/DIO	6.4
Block Paving Pad - 16/50	OPP/100/DIO	2.35			

# PCX 17/50A

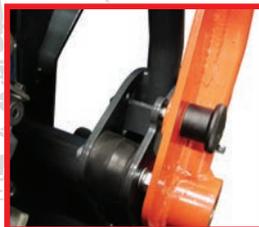
## ASPHALT FORWARD PLATE COMPACTOR

A SINGLE DIRECTION PLATE DESIGNED ULTIMATELY FOR COMPACTION OF ASPHALT AND MACADAM SURFACES. THIS PLATE COMPACTOR FEATURES A SPECIAL TAPERED BASE PLATE TO HELP AVOID 'TRACK' MARKS.



### FEATURES & BENEFITS

- Extremely accurate with a small turning radius on Asphalt.
- Specially engineered "Delta" Baseplate for high performance.
- Heavy Duty Remote Throttle.
- Strong protective frame as standard.
- Integrated Large 12 Litre Capacity Water Tank.
- Highly accurate water distribution from Spray Bar.
- Handle Latch for increased stability whilst operating the Wheel Kit.
- Integrated 'Quick Engage' Wheel Kit.
- Large diameter Wheels to aid transportation on rough terrain.
- Durable metallic Water Control Tap for high flow rate.
- Low HAV handles that still allow precision control.
- Fast travel speed.



Handle Latch



'Quick Engage' Integrated Wheel Kit as standard



Complete with Water Kit as standard



NO.1 FOR COMPACTING

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	3-Axis Vibration (m/sec <sup>2</sup> )	Weight (kg)
PCX 17/50A - Honda GX120 Petrol	PCA01	4.0 - 3.0	500 x 540	485	20	15	24	2.7*	89

\*Vibration levels tested to BS5349 using EN 500-4

# SF 460

## 'SPECIAL FORCE' FORWARD PLATE COMPACTOR

A SINGLE DIRECTION PLATE WITH HIGH AMPLITUDE VIBRATION DESIGNED FOR COHESIVE SOIL CONDITIONS. THE SF 460 MAKES GOOD PROGRESS WHERE OTHER PLATE COMPACTORS GET STUCK.



### FEATURES & BENEFITS

- 18kN high centrifugal force for powerful performance on cohesive soils.
- 90Hz low frequency vibration designed for sticky ground conditions.
- Extra thick baseplate for durability.
- Sealed oil filled vibrator for low maintenance.
- Very effective compaction in heavy soil conditions.



Ideal in heavy soil conditions



NO.1 FOR COMPACTING

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Travel Speed (m/min)	Frequency (Hz)	Weight (kg)
SF 460 - Honda GX160 Petrol	164.9.000	5.5 - 4.1	460 x 535	313	20	18	24	90	77

# RPX 35

## REVERSIBLE PLATE COMPACTORS

HEAVY DUTY RANGE OF REVERSIBLE PLATES BUILT TO WITHSTAND THE HARSHTEST SITE CONDITIONS. WITH IMPROVED BASEPLATE DESIGN FOR EXCELLENT GRADABILITY & INCREASED TRAVEL SPEEDS.



NO.1 FOR COMPACTING

### FEATURES & BENEFITS

- Robust design for long-life and use in the harshest site conditions.
- Petrol & Diesel models to suit all kind of applications combining low weight with high compaction force.
- Electric start with key ignition & LED warning lamps, eliminates need for operator training with manual starting (Hatz models only)
- Integrated Wheel Kit, ready for safe and easy transporation.
- Control Handle & Additional Fixed Handle with strong locking:-
  - More positive handling & control.
  - Reduces shock loading on control handles.
  - Better fulcrum for pulling machine onto its wheels.
  - Safe for operator moving without relying on moving control handles.
  - No damage to the forward/reverse mechanism.
- Angled baseplate for excellent gradability and travel speeds.
- Low HAV handle, safe for operators to use for long periods.
- High Compaction force for fast work & deep compaction.
- Handle mounted throttle, perfect for the operator
- Compact, high performace, sealed for life Lithium Ion battery. Dry battery = no liquid acid.
- Available with 40cm, 50cm or 60cm width baseplate.
- Specifically designed for hire and rental markets.
- Paving Pad option available.



Electric, Key Ignition Start & Led Warning Lamps



Fixed Handle to Aid Transportation

# RPX 35

## REVERSIBLE PLATE COMPACTORS

ALSO INCLUDES A HIGHER COMPACTION FORCE FOR SHORTER USAGE TIMES & DEEPER COMPACTION. COMPLETE WITH INTEGRATED WHEEL KIT FOR EASY TRANSPORTATION THESE ARE THE PERFECT SOLUTION FOR THE RENTAL MARKET.



NO.1 FOR COMPACTING



Integrated Wheel Kit & Foot Stand for Easy Transportation

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Frequency (Hz)	Travel Speed (m/min)	Storage Dimensions W x L x H (mm)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
RPX 35/40 - Honda GX200 Petrol	161.9.202	5.5 - 4.0	400 x 700	1351	20	35	81	27	400 x 809 x 1264	3.1	176
RPX 35/40D - Hatz 1B20 Diesel	161.9.200	4.2 - 3.1	400 x 700	1436	20	35	81	27	400 x 809 x 1264	2.4	187
RPX 35/40DE - Hatz 1B20 Diesel e/s	161.9.201	4.2 - 3.1	400 x 700	1449	20	35	81	27	400 x 809 x 1264	2.4	189
RPX 35/50 - Honda GX200 Petrol	161.9.205	5.5 - 4.0	500 x 700	1104	20	35	81	26	500 x 809 x 1264	3.1	180
RPX 35/50D - Hatz 1B20 Diesel	161.9.206	4.2 - 3.1	500 x 700	1172	20	35	81	26	500 x 809 x 1264	2.4	191
RPX 35/50DE - Hatz 1B20 Diesel e/s	161.9.204	4.2 - 3.1	500 x 700	1190	20	35	81	26	500 x 809 x 1264	2.4	194
RPX 35/60 - Honda GX200 Petrol	161.9.208	5.5 - 4.0	600 x 700	944	20	35	81	25	600 x 809 x 1264	3.1	185
RPX 35/60D - Hatz 1B20 Diesel	161.9.203	4.2 - 3.1	600 x 700	1000	20	35	81	25	600 x 809 x 1264	2.4	196
RPX 35/60DE - Hatz 1B20 Diesel e/s	161.9.207	4.2 - 3.1	600 x 700	1057	20	35	81	25	600 x 809 x 1264	2.4	207

### OPTIONS

Description	Part Number	Weight (kg)	Description	Part Number	Weight (kg)
Block Paving Pad - RPX 35/40	OPP/102/DIO	5.2	Block Paving Pad - RPX 35/60	OPP/105/DIO	9.0
Block Paving Pad - RPX 35/50	OPP/103/DIO	7.1			

# RPX 59

## REVERSIBLE PLATE COMPACTORS

HEAVY DUTY RANGE OF REVERSIBLE PLATES BUILT TO WITHSTAND THE HARSHTEST SITE CONDITIONS. WITH IMPROVED BASEPLATE DESIGN FOR EXCELLENT GRADABILITY & INCREASED TRAVEL SPEEDS AND A HIGHER COMPACTION FORCE FOR SHORTER USAGE TIMES AND DEEPER COMPACTION.



### FEATURES & BENEFITS

- Robust design for long-life and use in the harshest site conditions.
- Petrol & Diesel models to suit all kind of applications.
- Electric start with key ignition & LED warning lamps, eliminates need for operator training associated with manual starting (Hatz models only)
- Control Handle & Additional Fixed Handle with strong locking:-  
- More positive handling & control.  
- Reduces shock loading on control handles.
- Angled baseplate for excellent gradability and travel speeds.
- Low HAV handle, safe for operators to use for long periods.
- High Compaction force for fast work and deep compaction.
- Handle mounted throttle, perfect for the operator.
- High performance battery (Hatz Electric Start only).
- Cyclone Air Filter as standard on Honda GX390 model.
- Hourmeter as standard on Petrol and Diesel Electric models.
- Specifically designed for hire and rental markets.
- Extension Plates available to give 650mm or 750mm width base plates.



NO.1 FOR COMPACTING



Fixed Handle to Aid Manoeuvrability



Hourmeter as standard on Petrol & Diesel Electric



Electric, Key Ignition Start & Led Warning Lamps (Diesel Electric Model)

# RPX 59

## REVERSIBLE PLATE COMPACTORS

COMPLETE WITH HOURMETER AS STANDARD ON DIESEL ELECTRIC START & PETROL MODELS AND EXTENSION WIDTH OPTIONS AVAILABLE FOR MORE VERSATILITY. THE PERFECT SOLUTION FOR THE RENTAL MARKET. AVAILABLE WITH HONDA PETROL, HATZ DIESEL OR HATZ DIESEL ELECTRIC ENGINE OPTIONS.



NO.1 FOR COMPACTING



Handle mounted throttle lever, perfect for the operator



2 x 75mm or 2 x 125mm baseplate extension plates available as an option



Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Frequency (Hz)	Travel Speed (m/min)	Storage Dimensions W x L x H (mm)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
RPX 59/65 - Honda GX390 Petrol	161.9.214	9.4 - 7.0	650 x 945	1241	20	59	70	28	650 x 1088 x 1287	3.1	360
RPX 59/65D - Hatz 1D50 Diesel	161.9.212	10.7 - 7.9	650 x 945	1420	20	59	70	28	650 x 1088 x 1287	2.4	412
RPX 59/65DE - Hatz 1D50 Diesel e/s	161.9.213	10.7 - 7.9	650 x 945	1524	20	59	70	28	650 x 1088 x 1287	2.4	442
RPX 59/75 - Honda GX390 Petrol	161.9.218	9.4 - 7.0	750 x 945	1102	20	59	70	28	750 x 1088 x 1287	3.1	375
RPX 59/75D - Hatz 1D50 Diesel	161.9.216	10.7 - 7.9	750 x 945	1256	20	59	70	28	750 x 1088 x 1287	2.4	427
RPX59/75DE - Hatz 1D50 Diesel e/s	161.9.217	10.7 - 7.9	750 x 945	1344	20	59	70	28	750 x 1088 x 1287	2.4	457

### OPTIONS

Description	Part Number	Description	Part Number
75mm Extension Plates	OPP/106/D10	125mm Extension Plates	OPP/107/D10

## RPC RANGE

### REVERSIBLE PLATE COMPACTORS

HEAVY DUTY RANGE OF REVERSIBLE PLATE COMPACTORS WITH HYDRAULIC SHIFT GEARBOXES FOR CHANGING MOVEMENT DIRECTION. RPC PLATES ARE DESIGNED FOR HIGH COMPACTION, DURABILITY AND EASE OF MAINTENANCE.



### FEATURES & BENEFITS

- Maximum compaction from extra high centrifugal force.
- Easy to control with hydraulic gear shift mechanism.
- Designed for easy maintenance with removable covers, belt tensioners and self priming hydraulic systems.
- Built in lifting points enables machines to be easily moved on site.
- Engine protection frames protect the machines from tough site conditions.
- Honda petrol and Hatz Diesel engine variants available, with Diesel Electric Start options available for the 45 & 60 models
- Foldable handle with locking mechanism for simplified transportation and storage.
- Strong protective belt guard offers easy access for servicing
- 45/60 models include 2 x 75mm Extension Plates.
- 60/80 models include 2 x 125mm Extension Plates.



Wheel Kit Option for RPC 30/40 or 30/50



Heavy duty lifting eye on all models



RPC 60/80DE Electric Start and Crank Start

NO.1 FOR COMPACTING



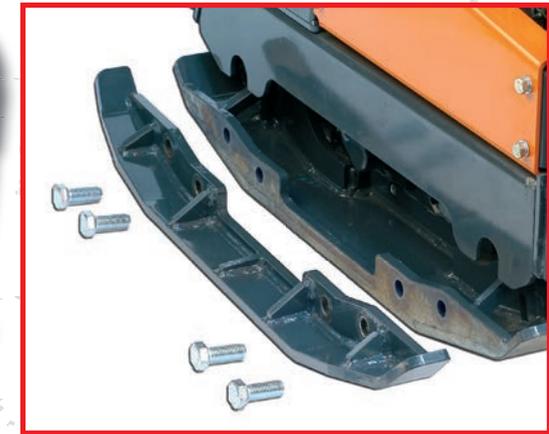
## RPC RANGE

### REVERSIBLE PLATE COMPACTORS

ALSO INCLUDES A HIGHER COMPACTION FORCE FOR SHORTER USAGE TIMES & DEEPER COMPACTION. COMPLETE WITH INTEGRATED WHEEL KIT FOR EASY TRANSPORTATION THESE ARE THE PERFECT SOLUTION FOR THE RENTAL MARKET.



NO.1 FOR COMPACTING



125mm Extension plates option for RPC 60/80

Model	Part Number	Engine Power (Hp) - (kW)	Plate Size (W x L) (mm)	Static Pressure (kg/m <sup>2</sup> )	Max. Gradient (°)	Centrifugal Force (kN)	Frequency (Hz)	Travel Speed (m/min)	Weight (kg)
RPC 30/40 - Honda GX160 Petrol	161.9.001	5.5 - 4.0	400 x 657	1238	20	30	95	24 - 26	158
RPC 30/40D - Hatz 1B20 Diesel	161.9.000	4.2 - 3.1	400 x 657	1380	20	30	95	24 - 26	170
RPC 30/50 - Honda GX160 Petrol	161.9.067	5.5 - 4.0	500 x 657	1034	20	30	95	24 - 26	161
RPC 30/50D - Hatz 1B20 Diesel	161.9.066	4.2 - 3.1	500 x 695	1132	20	30	95	24 - 26	174
RPC 45/60 - Honda GX270 Petrol	161.9.005	9 - 6.7	600 x 839	1429	20	45	70	26	275
RPC 45/60D - Hatz 1B30 Diesel	161.9.004	6.3 - 4.7	600 x 839	1496	20	45	70	26	291
RPC 45/60DE - Hatz 1B30 Diesel e/s	161.9.068	6.3 - 4.7	600 x 839	1664	20	45	70	26	303
RPC 60/80D - Honda GX390 Petrol	161.9.142	9.4 - 7.0	700 x 945	1220	20	60	70	26	380
RPC 60/80D - Hatz 1D81Z Diesel	161.9.064	15 - 11	700 x 945	1773	20	60	70	25.5	475
RPC 60/80DE - Hatz 1D81Z Diesel e/s	161.9.065	15 - 11	700 x 945	1919	20	60	70	25.5	502

### OPTIONS

Description	Part Number	Description	Part Number
125mm Extension plates - RPC 60/80	OPP/41/D10	RPC Wheel Kit - 30/40 & 30/50	OPP/18/D10

# RTX RANGE

## HEAVY-DUTY TRENCH RAMMERS



A COMPREHENSIVE RANGE OF 4 STROKE HONDA PETROL & YANMAR DIESEL ENGINE TRENCH RAMMERS. THE RTX RAMMERS FEATURE EXCELLENT BALANCE FOR EASY CONTROL AND HIGH LEVEL COMPACTION.

### FEATURES & BENEFITS

- Xtra power for use on cohesive materials & gradients.
- Xtra strong, durable design.
- Low Hand-Arm Vibration.
- Triple-Filtration Air Cleaner System on Petrol models and Dual-Filtration on Diesel model.
- Low-maintenance leg with Oil Level Sight Glass.
- Swing-Out engine protection for easy access to maintenance points (60R, 68R & 70R only)
- Heavy duty, protected Throttle Lever
- Lower Grab Handle and Front Roller for easy transportation. Both easily replaceable.
- Dual-Filtration Fuel System.
- Plastic Feet in various widths and Wheel Kit options available.
- Spark Arrester option available for Diesel model.
- Service Kits available.
- Customer colour options (60R, 68R & 70R only).



RTX 60 Model



Triple Filter Air Cleaner on Petrol Models



Dual Filtration Fuel System

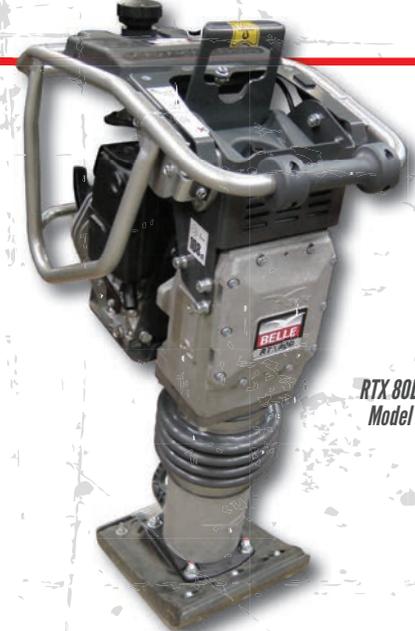
NO.1 FOR COMPACTING

# RTX RANGE

## HEAVY-DUTY TRENCH RAMMERS



A COMPREHENSIVE RANGE OF 4 STROKE HONDA PETROL & YANMAR DIESEL ENGINE TRENCH RAMMERS. THE RTX RAMMERS FEATURE EXCELLENT BALANCE FOR EASY CONTROL AND HIGH LEVEL COMPACTION.



RTX 80D Model



RTX 80D Yanmar Diesel model available

NO.1 FOR COMPACTING

Model	Part Number	Engine Power (Hp) - (kW)	Blows per Min	Carburettor Type	Amplitude (mm)	Frequency (Hz)	Impact Force (kN)	Dimensions W x L x H (mm)	*Foot Size W x L x H (mm)	Weight (kg)
RTX 50R - Honda GXR120 Petrol 230mm Plastic Foot	RTX50H2230	3.6 - 2.7	450 - 660	Diaphragm	52	11	12.5	345 x 670 x 975	230 x 335 x 75	57.7
RTX 60R - Honda GXR120 Petrol 165mm Plastic Foot	RTX60H2165S	3.6 - 2.7	450 - 660	Diaphragm	52	11	13.6	345 x 705 x 975	165 x 335 x 75	60
RTX 60R - Honda GXR120 Petrol 230mm Plastic Foot	RTX60H2230S	3.6 - 2.7	450 - 660	Diaphragm	52	11	13.6	345 x 705 x 975	230 x 335 x 75	60
RTX 60R - Honda GXR120 Petrol 280mm Plastic Foot	RTX60H2280S	3.6 - 2.7	450 - 660	Diaphragm	52	11	13.6	345 x 705 x 975	280 x 335 x 75	60
RTX 68R - Honda GXR120 Petrol 280mm Plastic Foot	RTX68H2280S	3.6 - 2.7	450 - 660	Diaphragm	52	11	16	345 x 705 x 1040	280 x 335 x 75	70
RTX 70R - Honda GXR120 Petrol 280mm Wooden Foot	RTX70H2W280S	3.6 - 2.7	450 - 660	Diaphragm	52	11	18	345 x 705 x 1040	280 x 335 x 75	72
RTX 80D - Yanmar L48 Diesel 280mm Plastic Foot	RTX80Y280	4.7 - 3.5	450 - 600	Injection	52	10	20.5	425 x 700 x 1081	280 x 335 x 75	86

\* All Foot Widths are available for each RTX Rammer model.

# TRENCH RAMMER

## ACCESSORIES RANGE

A RANGE OF ACCESSORIES TO ACCOMPANY YOUR ALTRAD BELLE RTX TRENCH RAMMER. INCLUDES RANGE OF EXTENSION FEET IDEAL FOR MICRO-TRENCHING AND A WHEEL KIT & TRANSPORT TROLLEY TO AID MANOUVERABILITY.



## FEATURES & BENEFITS

### Extension Feet

- Extension Feet compatible with all Rammers in the Altrad Belle RTX Range.
- Standard Feet are interchangeable with the Extension Feet.
- Ideal for Micro-Trenching

### Extension Feet & Micro-Trenching

- Less excavation / reinstating costs.
- High compaction rate.
- Fast and more efficient than traditional methods of laying ducting / cables.
- More environmentally friendly.

### Transport Trolley

- High quality floatation pneumatic tyres which allow Trolley to be used in the harshest of conditions.
- Adjustable securing latch which ensures the Trolley adapts to all sizes of Rammer within the RTX range quickly and securely.
- Allows safe single-person transportation of the Rammer around site.
- Easy to manoeuvre.
- Small enough to pass through standard size doorways.
- Wide profile types and wide wheelbase gives extra stability.
- Can be used safely with or without the Transport Roller located on the Rammer Handle.
- Ergonomically designed Hand Grips.



Hourmeter Option



Wheel Kit Option

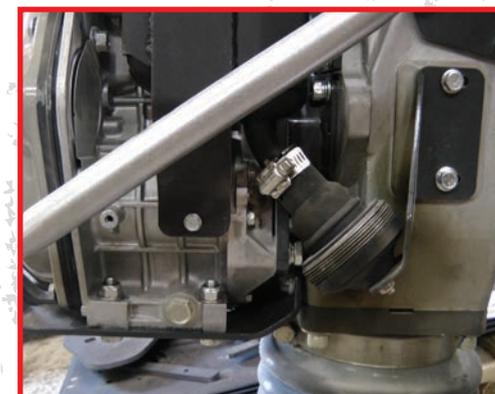
NO.1 FOR COMPACTING

# TRENCH RAMMER

## ACCESSORIES RANGE



NO.1 FOR COMPACTING



Spark Arrester Option for Diesel Model

Description	Part Number	Width (mm)	Length (mm)	Height (mm)	RTX 50	RTX 60	RTX 66	RTX 68	RTX 74	RTX 80D
*Plastic Foot Assembly, W = 165mm	980/03300	165	335	-	✓	✓	✓	✓	✓	✓
*Plastic Foot Assembly, W = 230mm	980/02400	230	335	-	✓	✓	✓	✓	✓	✓
*Plastic Foot Assembly, W = 280mm	980/02500	280	335	-	✓	✓	✓	✓	✓	✓
Extension Foot, W = 80mm, H = 260mm	OPRA/08/DIO	80	384	260	✓	✓	✓	✓	✓	✓
Extension Foot, W = 80mm, H = 160mm	OPRA/09/DIO	80	384	160	✓	✓	✓	✓	✓	✓
Extension Foot, W = 100mm, H = 325mm	OPRA/05/DIO	100	335	325	✓	✓	✓	✓	✓	✓
Extension Foot, W = 100mm, H = 160mm	OPRA/13/DIO	100	335	160	✓	✓	✓	✓	✓	✓
Extension Foot, W = 165mm	OPRA/06/DIO	165	335	325	✓	✓	✓	✓	✓	✓
*Heavy Duty Foot Assembly, W = 175mm	980/70900	175	345	80	✓	✓	✓	✓	✓	✓
*Heavy Duty Foot Assembly, W = 240mm	980/70700	240	345	80	✓	✓	✓	✓	✓	✓
*Heavy Duty Foot Assembly, W = 290mm	980/80300	290	345	80	✓	✓	✓	✓	✓	✓
Wheel Kit	OPRA/04/DIO	-	-	-	✓	✓	✓	✓	✓	✓
Hour Meter	OPRA/12/DIO	-	-	-	✓	✓	✓	✓	✓	✓
Transport Trolley	OPRA/10/DIO	-	-	-	✓	✓	✓	✓	✓	✓
Spark Arrester	OPRA/07/DIO	-	-	-	-	-	-	-	-	✓

\*Comes complete with fasteners for attaching the Foot to the Rammer Leg.

# TDX 650A

## LIGHTWEIGHT TWIN-DRUM ROLLER

A LIGHTWEIGHT TWIN-DRUM WALK-BEHIND ROLLER WITH HYDROSTATIC DRIVE SYSTEM. THE TDX 650A HAS A HIGH COMPACTION FORCE BUT IS ALSO COMPACT WITH WELL POSITIONED CONTROLS MAKING IT EASY TO OPERATE.



### FEATURES & BENEFITS

- Highly responsive, low-maintenance Hydrostatic drive system.
- High-powered, reliable, 10hp Air-Cooled, Electric Start Yanmar Diesel engine.
- 16kN high compaction force for productivity.
- Recoil Start back-up on Yanmar engine.
- High-quality Hydraulic System components.
- 65 litre Water Tank with external gauge.
- Easy to service - Remote Oil Drain. Remote Oil Fill. Air Cleaner Access.
- Wall clearance on both sides with no overhang.
- Self-cleaning, adjustable Scraper Bars.
  - 18 litre Hydraulic Oil Tank.
  - Easy access, removable, front and rear anti-corrosive water sprinkler system.



Pre-Cleaner as standard



Self-Cleaning, Adjustable Scraper Bars



- Foldable handle with locking mechanism.
- Lockable Diesel fill access flap.
- Drain on Water Tank to prevent frost damage.
- Centrally located Lifting Eye and 4 Strapping / Lifting Points.
- Parking Brake.
- Key Switch protection.
- 2-layer factory powder coated components
- Customer colour options available.
- Optional Hourmeter available.



NO.1 FOR COMPACTING

# TDX 650A

## LIGHTWEIGHT TWIN-DRUM ROLLER

SUITABLE FOR A WIDE RANGE OF SUB-BASE AND ASPHALT COMPACTION APPLICATIONS.



NO.1 FOR COMPACTING



Well positioned, easy to operate controls



65 litre Water Tank with external gauge.



10hp Yanmar Diesel engine with back-up Recoil start



Ability to be used right up to kerb edges

Model	Part Number	Engine Power (Hp) - (kW)	Forward Travel Speed (km/hr)	Reverse Travel Speed (km/hr)	Centrifugal Force (kN)	Vibration Frequency (vpm)	Max. Gradient (°)	Drum Width (mm)	Overall Width (mm)	Overall Height (mm)	Overall Length (mm)	Weight (kg)
TDX 650A - Yanmar L100N Diesel	650AYGRY4	10 - 7.4	0 - 4.2	0 - 2.3	16	3300	20	650	703	1137	2318	675

### OPTIONS

Description	Part Number
Hour Meter	OPR/04/D10



MIXING  
TIP-UP MIXERS, SITE MIXERS, UPRIGHT MIXERS, PADDLE MIXERS, SKIP-FED MIXERS



# MINIMIX 150

## TIP-UP CEMENT MIXER

A HEAVY DUTY MIXER DESIGNED FOR PROFESSIONAL AND RENTAL USE. THE MINIMIX 150 CAN BE USED ON OR OFF ITS STAND AND IS THE IDEAL PORTABLE AND ROBUST SOLUTION FOR MIXING CONCRETE AND MORTAR.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Compact and portable for easy transportation.
- Mixes a full barrow load of concrete or mortar.
- Complete with barrow height swivel and stand.
- Full thermal overload protection.
- Proven robust and durable design.
- Extra thick drum with quick mix paddles.
- Heavy-duty sealed cast gearbox for longer life.
- Choice of Honda or Loncin petrol engines or 110v or 230v electric motors to suit the user.
- Ideal for use with the Altrad Belle Warrior Wheelbarrow (see page 134)



Electric Motor



Honda GX120 Engine



Model	Part Number	Motor Power (Hp) - (kW)	Max Drum Capacity (ltr)	Max Mixing Capacity (ltr)	Drum Speed	Paddle Type	Width (mm)	Height (mm)	Length (mm)	Weight without Stand (kg)*
Minimix 150 - Honda GX120 Petrol	M54B	4.0 - 2.9	130	90	24rpm	2 x Rapid mix	597	890	1211	61
Minimix 150 - Loncin H135 Petrol	M73B	3.5 - 2.6	130	90	24rpm	2 x Rapid mix	597	890	1211	61
Minimix 150 - 110v Electric	M12B	0.75 - 0.55	130	90	24rpm	2 x Rapid mix	597	890	1211	55.5
Minimix 150 - 230v Electric	M16B	0.75 - 0.55	130	90	24rpm	2 x Rapid mix	597	890	1211	55.5
Minimix 150 Drum	CMS12SP	-	130	90	24rpm	2 x Rapid mix	-	-	-	21

\*Stand Weight = 9.5kg.

Altrad Belle reserves the right to alter details and specifications without notice.

## MINIMIX 130

### TIP-UP CEMENT MIXER

A COMPACT AND PORTABLE MIXER FOR SMALL BUILDING PROJECTS. THE MINIMIX 130 CAN BE USED ON OR OFF ITS STAND AND IS THE IDEAL COST EFFECTIVE SOLUTION FOR MIXING CONCRETE AND MORTAR.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Compact and portable for easy transportation.
- Mixes a full barrow load of concrete or mortar.
- Robust and durable design based on years of mixer manufacturing experience.
- Complete with barrow height swivel stand.
- 230v purpose built integrated motor for reliability.



\*\* Stand Weight = 7.7kg

Model	Part Number	Motor Power (Hp) - (kW)	Max Drum Capacity (ltr)	Max Mixing Capacity (ltr)	Drum Speed (rpm)	Paddle Type	Width (mm)	Height (mm)	Length (mm)	Weight without Stand (kg)**
Minimix 130 - 230v Electric	ME23	0.60 - 0.45	130	90	26.5	2 x Welded	580	860	1140	34

## ALTRAD ATIKA COMPACT 100

### PAN MIXER

MULTI-PURPOSE 100 LITRE PAN MIXER. THE IDEAL MIXER FOR PAINTERS, FLOOR & TILE LAYERS AND PLASTERERS. IT GUARANTEES HIGH PRODUCTIVITY, THE BEST MIXING RESULTS AND OFFERS EXTRAORDINARY MANOEUVRABILITY ON SITE.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Improved heavy-duty gearbox and motor for increased durability and lower power consumption
- The large wheels enable transportation up and down stairs.
- Fast discharging into buckets and wheelbarrows by segmental slide in drum bottom.
- Centrally positioned operating switch with integrated quick-stop button and safety cut-out for drum lid.
- Fits through standard 28" doorways.
- Compact enough to be transported in estate cars and small vans.
- Offset mixing forks, paddles and scrapers guarantee extraordinary mixing results.
- No tools needed for detaching mixing mechanism for cleaning.
- Protective grid lockable for maximum safety.
- 3-way mixing mechanism with individually interchangeable paddles.
- Solid and robust for tough site conditions.
- Bag scarifiers enable simple and well dosed feeding of mixer.



Ideal with our Wheelbarrow range



Improved Heavy Duty Gearbox and Motor



Fits into estate cars & small vans

Model	Part Number	Motor Power (Hp) - (kW)	Max Drum Capacity (ltr)	Max Mixing Capacity (ltr)	Drum Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Compact 100 Pan Mixer - 110v Electric	CPM01	2.68 - 2.00	100	80	26.5	665	1190	720	80

# PROMIX 1600E

## HAND-HELD STIRRER

A HIGH-TORQUE MIXING STIRRER DESIGNED TO MEET THE DEMANDS OF PROFESSIONALS. EASY AND COMFORTABLE TO USE, THIS MACHINE TAKES THE EFFORT OUT OF MIXING MATERIALS LIKE PLASTER, BONDING COMPOUNDS, PAINTS AND ADHESIVES.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Large heavy-duty motor for higher power and more torque.
- Two speed heavy-duty high torque gearbox for extra life.
- Electronic speed control to ensure constant speed.
- Soft-start motor for more control and reduced splashing.
- Ergonomic handles for operator comfort and reduced fatigue.
- Easy maintenance including quick-change brushes.
- Easy to change tools with standard M14 fit.
- Supplied complete with 2 blade helical paddle.
- Incorporates fail-safe trigger lock.
- Slow start, low splash.



Soft-start motor



Easy access controls



Easy cleaning and maintenance

# PROMIX 1600E

## HAND-HELD STIRRER

A HIGH-TORQUE MIXING STIRRER DESIGNED TO MEET THE DEMANDS OF PROFESSIONALS. EASY AND COMFORTABLE TO USE, THIS MACHINE TAKES THE EFFORT OUT OF MIXING MATERIALS LIKE PLASTER, BONDING COMPOUNDS, PAINTS AND ADHESIVES.



NO.1 FOR MIXING



2 Blade Helical Paddle

3 Blade Helical Paddle



Ideal for mixing plaster

Model	Part Number	Motor Power (watts)	Max Mixing Capacity (ltr)	Speed Range (rpm)	Paddle Diameter (mm)	Paddle Fitting	Weight (kg)	Noise Level (dB(A))
Promix 1600E - 230v Electric	PROM04	1600	227	153-670	160	M14 x 2	7.8*	98
Promix 1600E - 110v Electric	PROM03	1600	227	153-670	160	M14 x 2	7.8*	98

\* Weight includes Paddle.

### OPTIONS

Description	Part Number	Description	Part Number
2 Blade helical ribbon paddle 140mm dia	949/99584	3 Blade left hand helical ribbon paddle 140mm dia	949/99586
2 Blade helical ribbon paddle 160mm dia	949/99585	3 Blade left hand helical ribbon paddle 160mm dia	949/99587

# TUBMIX 50

## PADDLE MIXER

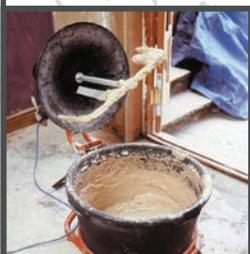
A HIGH TORQUE PADDLE MIXER DESIGNED TO MEET THE DEMANDS OF THE PROFESSIONAL USER. STAND ALONE AND FULLY INTEGRATED, THE TUBMIX REQUIRES NO OPERATOR EFFORT AND IS IDEALLY SUITED FOR MIXING PLASTER, BONDING COMPOUNDS, PAINTS AND ADHESIVES ETC



### FEATURES & BENEFITS

- Hands free operation for reduced operator effort - mixes while you work.
- Spinning disk above paddles eases the adding of powdered materials and improves operator safety.
- Supplied with flexible drum for easy cleaning.
- Fitted with wheels for easy transportation and improved maneuverability.
- Fitted with electrical overload protection.
- Fitted with induction motor for quiet, maintenance-free, long life operation.
- Large mix capacity.

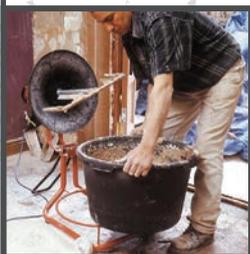
NO.1 FOR MIXING



Large mix capacity



Heavy-Duty Motor



Flexible drum



Easy clean paddles



Model	Part Number	Motor Power (Hp) - (kW)	Max Tub Capacity (ltr)	Max Mixing Capacity (ltr)	Paddle Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Tubmix 50 - 230v Electric	163.9.000	1.6 - 1.2	65	50	55	500	785	605+330	30
Tubmix 50 - 110v Electric	163.9.001	1.6 - 1.2	65	50	55	500	785	605+330	30
Tubmix 50 - Additional Tub	163.0.071	N/A	65	50	N/A	-	-	-	2

# MAXI 140

## SMALL UPRIGHT MIXERS

AN EXTRA HEAVY DUTY UPRIGHT MIXER FOR PROFESSIONAL AND RENTAL USERS. DESIGNED TO WITHSTAND THE RIGOURS OF HEAVY SITE USAGE, THE MAXI 140 IS IDEAL FOR MIXING CONCRETE AND MORTAR.



### FEATURES & BENEFITS

- Heavy duty integrated stand for stability and durability.
- Fitted with wheel mechanism for added control whilst tipping.
- Barrow height tipping on either side.
- Extra heavy duty gearbox design for longer life and minimal maintenance.
- Enclosed and protected electric and petrol motors to suit the user.

NO.1 FOR MIXING



Honda 4Hp Engine



110v Electric Motor



Large heavy duty hand wheel



Model	Part Number	Motor Power (Hp) - (kW)	Max Drum Capacity (ltr)	Max Mixing Capacity (ltr)	Drum Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Maximix 140 - Honda GX120 Petrol (with oil alert)	MA05	4 - 2.9	130	90	22	840	1324	1192	90
Maximix 140 - 230v Electric	MA04	0.75 - 0.55	130	90	22	840	1324	1192	86.5
Maximix 140 - 110v Electric	MA02	0.75 - 0.55	130	90	22	840	1324	1192	86.5
Maximix 140 - Drum	CMS125P	-	130	90	22	-	-	-	-

# PREMIER XT RANGE

## LARGE SITE CEMENT MIXERS

A HEAVY-DUTY SITE MIXER DESIGNED FOR PROLONGED SITE AND RENTAL USE. BUILT TO WITHSTAND THE TOUGHEST CONDITIONS, A HIGH SPECIFICATION, THE PREMIER XT RANGE IS IDEAL FOR MIXING LARGER BATCHES OF CONCRETE AND MORTAR.



NO.1 FOR MIXING

### FEATURES & BENEFITS

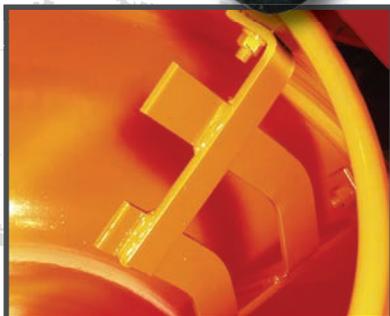
- Extra heavy-duty and robust chassis designed to withstand the worst site conditions.
- Extra rigid and reinforced drum to prevent distortion.
- Heavy duty wheels designed to operate in the toughest of conditions.
- Stage 5 compliant Yanmar L48 Electric-Start Diesel engine.
- Foot operated tip-lock and large tip wheel for added safety and control with large mixes.
- Enhanced mixing performance with Quick-Mix replaceable bolt in paddles.
- New wider profile wheels for extra stability.
- Easy-to-clean tubular chassis.
- Sealed, heavy-duty high specification gearbox for reduced maintenance.
- Lockable stay cool engine compartment for security and lid down operation.
- Extra short wheel base on 100XT and 150XT to fit on compact vehicle tail lifts.



NOTE:- Suitable 16amp supply required for 230v machines.



Wide profile tyres for extra stability



'Quick-Mix' Bolt-In Paddles

# PREMIER XT RANGE

## LARGE SITE CEMENT MIXERS

A HEAVY-DUTY SITE MIXER DESIGNED FOR PROLONGED SITE AND RENTAL USE. BUILT TO WITHSTAND THE TOUGHEST CONDITIONS, A HIGH SPECIFICATION, THE PREMIER XT RANGE IS IDEAL FOR MIXING LARGER BATCHES OF CONCRETE AND MORTAR.



NO.1 FOR MIXING



Parking brake for improved site safety



Foot operated tip lock for added safety

Model	Part Number	Engine Power (Hp) - (kW)	Drum Volume (ltr)	Mixing Output/ Mixing Volume (ltr)	Drum Speed (rpm)	Paddle Type	Noise Level (dB(A))	Width (mm)	Length (mm)	Height (mm)	Weight (kg)
Premier 100XT - Yanmar L48 Diesel Electric Start	PM20V	3.4 - 2.5	250	110	19	Gated Paddle Design	99	900	1765	1475	335
Premier 100XT - 110v Electric	PM08	2 - 1.5	250	110	19	Gated Paddle Design	87	900	1765	1475	305.5
Premier 100XT - 230v 1ph Electric	PM06	2 - 1.5	250	110	19	Gated Paddle Design	87	900	1765	1475	303.5
Premier 150XT - Yanmar L48 Diesel Electric Start	PM38V	3.4 - 2.5	300	160	19	Gated Paddle Design	99	900	1765	1560	344
Premier 150XT - 110v Electric	PM28	2 - 1.5	300	160	19	Gated Paddle Design	87	900	1765	1560	314.5
Premier 150XT - 230v 1ph Electric	PM45	2 - 1.5	300	160	19	Gated Paddle Design	87	900	1765	1560	312.5
Premier 175XT - Yanmar L48 Diesel Electric Start	PM39V	3.4 - 2.5	350	180	19	Gated Paddle Design	99	900	1890	1520	350
Premier 175XT - 110v Electric	PM31	2 - 1.5	350	180	19	Gated Paddle Design	87	900	1890	1520	322.5
Premier 175XT - 230v 1ph Electric	PM46	2 - 1.5	350	180	19	Gated Paddle Design	87	900	1890	1520	320.5
Premier 200XT - Yanmar L48 Diesel Electric Start	PM40V	3.4 - 2.5	400	220	19	Gated Paddle Design	99	900	1890	1590	353.5
Premier 200XT - 110v Electric	PM42	2 - 1.5	400	220	19	Gated Paddle Design	87	900	1890	1590	325
Premier 200XT - 230v 1ph Electric	PM47	2 - 1.5	400	220	19	Gated Paddle Design	87	900	1890	1590	323

# COMMODORE

## LARGE SITE CEMENT MIXERS

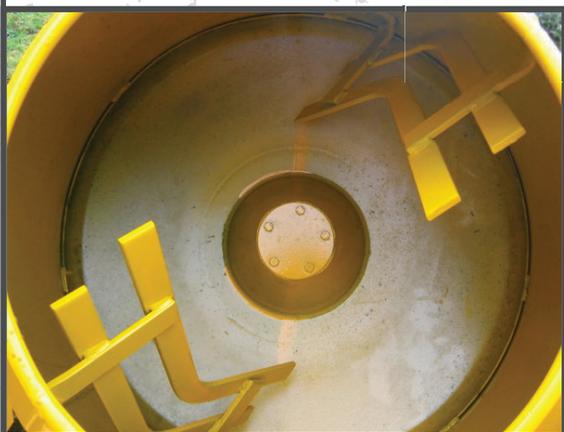
A HEAVY-DUTY SITE MIXER DESIGNED FOR PROLONGED SITE AND RENTAL USE. BUILT TO WITHSTAND THE TOUGHEST CONDITIONS, A HIGH SPECIFICATION, THE COMMODORE RANGE IS IDEAL FOR MIXING LARGER BATCHES OF CONCRETE AND MORTAR.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Heavy-duty chassis designed to withstand tough site conditions.
- Rigid, reinforced drum to prevent distortion.
- Foot operated tip-lock and large tip wheel for added safety and control with large mixes.
- Stage 5 compliant Yanmar L48 Electric-Start Diesel engine.
- High quality mixing performance from gated paddle design.
- Easy-to-clean steel chassis.
- Sealed, heavy-duty high specification gearbox for reduced maintenance.
- New wider profile wheels for extra stability.
- Robust, easy to use Parking Brake for increased on-site safety.
- 3 Drum sizes available to suit all your site needs.



New wider profile wheels for extra stability



New wider profile wheels for extra stability

# COMMODORE

## LARGE SITE CEMENT MIXERS

A HEAVY-DUTY SITE MIXER DESIGNED FOR PROLONGED SITE AND RENTAL USE. BUILT TO WITHSTAND THE TOUGHEST CONDITIONS, A HIGH SPECIFICATION, THE COMMODORE RANGE IS IDEAL FOR MIXING LARGER BATCHES OF CONCRETE AND MORTAR.



NO.1 FOR MIXING



Parking brake for improved site safety



Yanmar L48 Tier V Diesel engine



Length of all machines allows them to fit on standard tail lifts.

Model	Part No.	Engine Power (Hp) - (kW)	Max Dry Mix Drum Capacity (tr)	Mixed Batch Output (tr)	Drum Speed (rpm)	Paddle Type	Noise Level (dB(A))	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Commodore 5/3 - Yanmar L48 Diesel Electric Start	COM53VVEY	3.0 - 2.5	160	110	19	Gated Paddle Design	102	900	1300	1900	418
Commodore 7/5 - Yanmar L48 Diesel Electric Start	COM75VVEY	3.0 - 2.5	220	160	19	Gated Paddle Design	102	900	1415	1900	423
Commodore 10/7 - Yanmar L48 Diesel Electric Start	COM107VVEY	3.0 - 2.5	310	220	19	Gated Paddle Design	102	900	1430	1850	438

# AT 350

## ROAD TOW MIXERS

ALTRAD BELLE INTRODUCES THE AT 350 ROAD TOW MIXER. A RUGGED MIXER DESIGNED FOR SITE TO SITE PORTABILITY WITH A QUICK AND EASY SET-UP AND WITH THE LATEST APPROVED TOWING SYSTEM AND TAIL LIGHTS.



NO.1 FOR MIXING

### FEATURES & BENEFITS

- Strong, durable, easy-to-clean chassis designed for demanding on site applications.
- Quick and effortless to transfer from road tow to mix mode.
- Large 280 litre drum.
- Hatz 1B20 Diesel engine.
- Supplied complete with mudguards, tow hitch and fully integrated lighting board.
- Engine canopy with integrated ventilation for improved engine cooling.
- 3 large mixing paddles for enhanced mixing performance.
- Large handwheel for easy tipping with foot pedal locking system.
- Adjustable leg height.
- High quality wheel suspension able to cope with speeds of up to 55mph.
- Lifting Eye and Fork Lift sockets for easy site transportation.
- Cast-iron ring gear and pinion protection for safe usage.



Integrated ventilation in engine canopy



Drum with Gated Paddle design

# AT 350

## ROAD TOW MIXERS

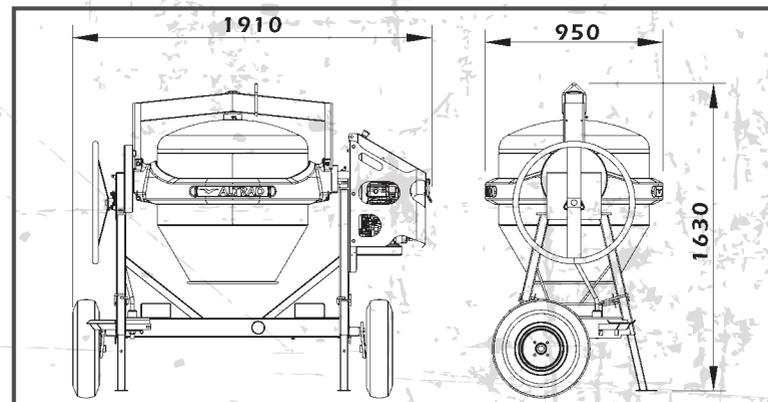
ALTRAD BELLE INTRODUCES THE AT 350 ROAD TOW MIXER. A RUGGED MIXER DESIGNED FOR SITE TO SITE PORTABILITY WITH A QUICK AND EASY SET-UP AND WITH THE LATEST APPROVED TOWING SYSTEM AND TAIL LIGHTS.



NO.1 FOR MIXING



Fully integrated Lighting Board



Model	Part No.	Engine Power (Hp) - (kW)	Drum Volume (ltr)	Mixing Output / Mixing Volume (ltr)	Paddle Type	Pneumatic Tyres (mm)	Noise Level (dB(A))	Weight (kg)
AT350 Road Tow Mixer - Honda GX160 Petrol	UK35PIV09	5.5 - 4	340	280	Gated Paddles	500	105	323
AT350 Road Tow Mixer - Hatz 1B20 Diesel	UK35PIA10	4.8 - 3.5	340	280	Gated Paddles	500	110	337
AT350 Road Tow Mixer - 220v Electric	UK35PIE01	2 - 1.5	340	280	Gated Paddles	500	94	320

Description	Part Number
AG350 Agricultural Mixer (Grey ONLY)	AG350GF
Agricultural Mixer Transmission	LZ030

# RB800H

## SKIP-FED MIXERS

SKIP-FED MIXER WITH HORIZONTAL DRUM AND HYDRAULIC SKIP. AVAILABLE IN ELECTRIC OR DIESEL WITH STANDARD SCRAPER POWERED EITHER BY REMOTE CONTROL OR WINCH AND CLUTCH.

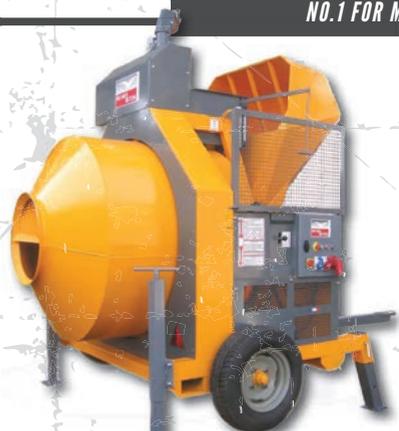


### FEATURES & BENEFITS

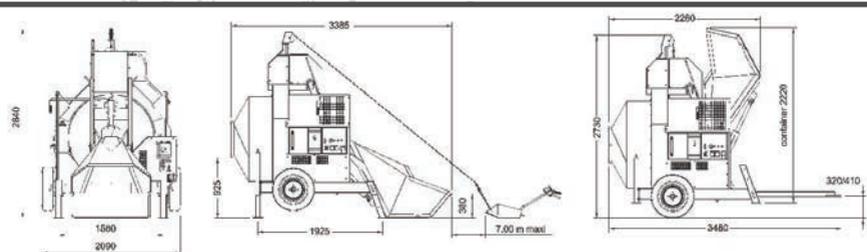
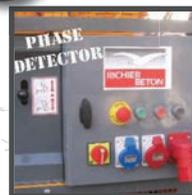
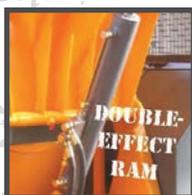
- Adjustable rear feet with handle.
- Skip equipped with bag cutter and scraper guide.
- Double-effect ram with valve enabling all position skip locking.
- Control panel equipped with phase detector, cuts out in case of incorrect wiring.
- Protective grid ensuring optimal protection.
- Loading Ramp and Towing Plate accessories available.



\* To obtain final volume, pour two skips of aggregate into the drum. The final volume depends on the sand percentage, the aggregate size and porosity, and the fluidity of the concrete.



NO.1 FOR MIXING



Model	Power	*Mixing Capacity (Ltr)	*Mixing Output (Ltr)	Water Tank Capacity (Ltr)	Steel Cable Length (mm)	Towing Speed (m/s)	Pneumatic Wheels	Weight with Scraper (kg)
RB800H - 380v/50Hz Electric	7.5Hp - 5.5kW	800	550	60	9500	0.5	185/65 x 15	1200
RB800H - Hatz Diesel Generator	10 kVA	800	550	60	9500	0.5	185/65 x 15	1480

# RB500B

## SKIP-FED MIXERS

SKIP-FED MIXER WITH HYDRAULIC TIPPING DRUM AND HYDRAULIC SKIP. AVAILABLE IN ELECTRIC, PETROL OR DIESEL WITH STANDARD SCRAPER POWERED EITHER BY REMOTE CONTROL OR WINCH AND CLUTCH.



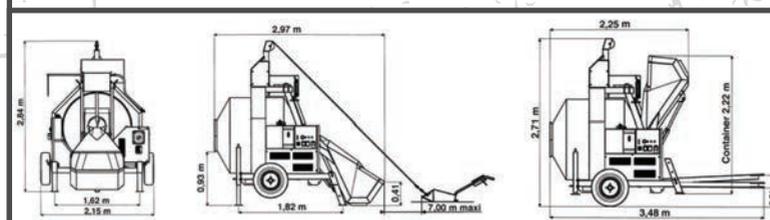
### FEATURES & BENEFITS

- Adjustable rear feet with handle.
- Double-effect ram with valve enabling all position skip locking.
- Skip equipped with bag cutter and scraper guide.
- Protective grid ensuring optimal protection.
- Control panel equipped with phase detector, cuts out in case of incorrect wiring.
- The drum tipping is monitored by a hydraulic motor equipped with a valve to guarantee the blocking of the drum in any position.

\* To obtain final volume, pour two skips of aggregate into the drum. The final volume depends on the sand percentage, the aggregate size and porosity, and the fluidity of the concrete.



NO.1 FOR MIXING



Model	*Mixing Capacity (Ltr)	*Mixing Output (Ltr)	Water Tank Capacity (Ltr)	Pneumatic Wheels	Towing Speed (m/s)	Steel Cable Length (mm)	Weight (kg)	Weight with Scraper (kg)
RB500B - 380v / 50Hz Electric	460	400	60	175R13	0.5	9500	770	880
RB500B - Honda GX160LX Petrol	460	400	60	175R13	0.5	9500	780	N/A
RB500B - Hatz 1B20 Diesel	460	400	60	175R13	0.5	9500	780	N/A



110v  
230v eco

## MEGAVIB+

### HIGH-FREQUENCY VIBRATING POKER

A COMPACT HIGH-FREQUENCY VIBRATING POKER SYSTEM. THE VIBRATING POKER HEADS ARE INTERCHANGEABLE, ALLOWING THE USER TO SELECT THE BEST SIZE FOR THE APPLICATION. AN EXCELLENT SOLUTION FOR COMPACT AND PORTABLE AIR REMOVAL IN CONCRETE.



NO.1 FOR CONCRETING

### FEATURES & BENEFITS

- Lightweight and compact for ease of handling.
- High impact motor housing for high durability.
- Double insulated for electrical safety.
- High-frequency vibration for productivity.
- Interchangeable heads and shafts.
- Comes complete with shoulder strap.



Ideal for small volumes of concrete



Easily interchangeable shafts and heads

Model	Part Number	Motor Speed Unloaded (rpm)	Motor Speed Loaded (rpm)	Power (kW)	Loading (Amps)	Weight (kg)
Megavib+ Drive Unit - 110v Electric	244/00100	16000	12000	1.6	13	4.8
Megavib+ Drive Unit - 230v Electric	244/00300	16000	12000	2.3	10	4.8

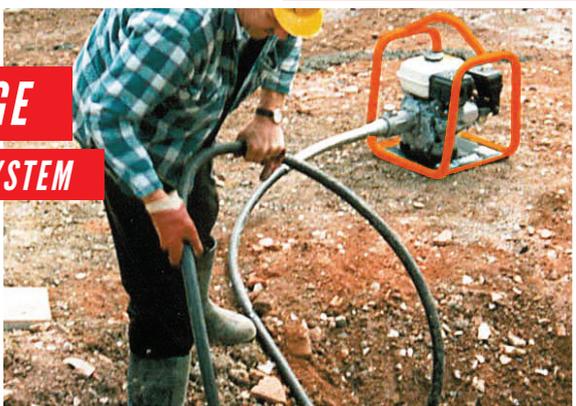
Model	Part Number	Poker Diameter (mm) - (inch)	Head Length (mm)	Shaft Length (m)	Frequency (Hz)	Centrifugal Force (N)	Weight (kg)
Megavib+ Flexible Shaft - 3m	244/00500			3			5
Megavib+ Poker head - 36mm	244/00700	36 - 1¼	292	3	217	4018	1.9
Megavib+ Poker head - 50mm	244/00800	50 - 2	327	3	200	5039	3.7
Megavib+ Poker head - 57mm	244/00900	57 - 2¼	346	3	192	6468	5
Megavib+ Poker head - 25mm (1") Including 3m Shaft	244/01100	25 - 1	300	3	225	882	5.5

CONCRETING  
POKERS, SCREDS, POWER TROWELS, SUBMERSIBLE PUMPS

# BGA RANGE

## FLEXIBLE SHAFT POKER SYSTEM

A PORTABLE, ROBUST AND COMPACT DRIVE SYSTEM DESIGNED FOR HEAVY SITE AND RENTAL USE, PROVIDING EFFECTIVE AIR REMOVAL FROM CONCRETE FROM A PORTABLE INDEPENDENT POWER SOURCE.



### FEATURES & BENEFITS

#### BGA Pokers

- Single-piece rotating pendulum vibrator, generating 12000vpm.
- Engineered to withstand site abuse and for durability.
- 6m heavy-duty reinforced flexible shaft.
- Industry standard Two Dog drive coupling for maximum compatibility.

#### BGA Drive Unit

- Robust and durable engine protection frame for added durability.
- Fitted with speed limitation to prevent over-revving of engine and poker burn out.
- Compact and portable, making it easy to transport.
- Choice of Honda or Loncin Petrol or Hatz Diesel Power Units.



NO.1 FOR CONCRETING



Wide range of Poker sizes to suit every need



Industry standard Two Dog coupling

Model	Part Number	Poker Diameter (mm) - (inch)	Head Length (mm)	Shaft Length (m)	Frequency (Hz)	Amplitude (mm)	Weight (kg)
BGA 25mm Poker	165.9.080	25 - 1	295	6	187	0.8	13.1
BGA 35mm Poker	165.9.081	35 - 1 3/8	330	6	187	1.2	15.1
BGA 45mm Poker	165.9.082	45 - 1 3/4	375	6	187	1.2	19.6
BGA 55mm Poker	165.9.083	55 - 2 1/4	390	6	187	1.2	20.6
BGA 68mm Poker	165.9.084	68 - 2 11/16	410	6	187	1	24.6

Model	Part Number	Engine Power (Hp) - (kW)	Engine Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Power Unit - Honda GX120 Petrol	165.9.020	4.0 - 3.0	2800	420	520	445	24
Power Unit - Honda GX160 Petrol	165.9.038	5.5 - 4.0	2800	420	520	445	26
Power Unit - Loncin H135 Petrol	165.9.090	3.5 - 2.6	2800	420	520	445	24
Power Unit - Hatz 1B20 Diesel	165.9.034	5.4 - 4.0	2800	440	630	500	43

# BGA RANGE

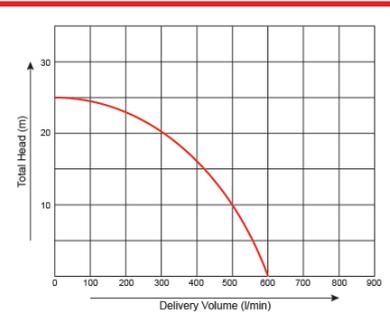
## SUBMERSIBLE WATER PUMP

A HEAVY DUTY POKER DRIVE UNIT POWERED PUMP. ROBUST AND CAPABLE OF PUMPING EVEN THE DIRTIEST OF WATER.



### FEATURES & BENEFITS

- A heavy-duty and durable pump designed to work in tough site conditions.
- Capable of pumping dirty water even when containing small solids.
- Provides the ability to lift high heads of water at excellent flow rates.
- Works off standard Poker Drive Units for maximum versatility.



BGA Pump Performance Curve



Industry standard Two Dog coupling

Model	Part Number	Max Flow rate (litre/hr)	Speed Ratings (rpm)	Shaft Length (m)	Outlet Size (mm)	Pump Weight (kg)	Total Weight (kg)
BGA Submersible Water Pump	165.9.047	25,000	2800 - 3600	5	75	6	22

Model	Part Number	Engine Power (Hp) - (kW)	Engine Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Power Unit - Honda GX120 Petrol	165.9.020	4.0 - 3.0	2800	420	520	445	24
Power Unit - Honda GX160 Petrol	165.9.038	5.5 - 4.0	2800	420	520	445	26
Power Unit - Loncin H135 Petrol	165.9.090	3.5 - 2.6	2800	420	520	445	24
Power Unit - Hatz 1B20 Diesel	165.9.034	5.4 - 4.0	2800	440	630	500	43

### OPTIONS

Description	Part Number	Description	Part Number
3" x 10m Lay Flat Hose	165.0.169	3" Fireman's coupling	OPB/02/D10
2 x 3" Circlip for hose	165.0.170		

## VIBRATECH+

### HIGH-FREQUENCY VIBRATING POKERS

A HEAVY-DUTY, HIGHLY RELIABLE HIGH FREQUENCY ELECTRONIC POKER DESIGNED FOR THE TOUGHEST OF SITE CONDITIONS. THE VIBRATECH POKERS USE AN IN-LINE CONVERTER, ELIMINATING THE NEED FOR AN ADDITIONAL EXTERNAL POWER SOURCE.



### FEATURES & BENEFITS

- 7m or 10m abrasion-resistant hose to poker head designed for deeply poured concrete.
- 15m of cable to switch for long reach from the power supply.
- Simple and sturdy design enables very reliable operation.
- Long life motor requires virtually no maintenance.
- Die-cast moulded aluminium housing with chamfered edges and LED operation / fault display.
- Environmentally-friendly product with no emissions.
- Rubber End Cap available on 52 & 58 models.



Die-Cast moulded aluminium housing with LED display



15m of cable for use on large sites

Model	Part No.	Hose Length (m)	Poker Diameter (mm) - (inch)	Head Length (mm)	Centrifugal Force (N)	Vibrations per Minute (vpm)	Frequency (Hz)	Input Current (Amps)	Vibration Level* (m/sec <sup>2</sup> )	Weight (kg)
Vibrattech+ 38 110v	BVP03	7	38 - 1.5	330	1825	12000	200	1.3	2.13	12
Vibrattech+ 38 110v	BVP04	10	38 - 1.5	330	1825	12000	200	1.3	2.13	16
Vibrattech+ 42 110v	BVP07	7	42 - 1.66	348	2450	12000	200	1.8	2.10	15
Vibrattech+ 42 110v	BVP08	10	42 - 1.66	348	2450	12000	200	1.8	2.10	19
Vibrattech+ 52 110v	BVP12	7	52 - 2.0	382	3420	12000	200	2.6	1.77	17
Vibrattech+ 52 110v	BVP13	10	52 - 2.0	382	3420	12000	200	2.6	1.77	22
Vibrattech+ 52 110v cw Rubber Cap	BVP14	7	52 - 2.0	382	3420	12000	200	2.6	1.77	17
Vibrattech+ 58 110v	BVP18	7	58 - 2.3	410	5075	12000	200	3.0	1.99	19
Vibrattech+ 58 110v	BVP19	10	58 - 2.3	410	5075	12000	200	3.0	1.99	24
Vibrattech+ 58 110v cw Rubber Cap	BVP20	7	58 - 2.3	410	5075	12000	200	3.0	1.99	19

NO.1 FOR CONCRETING

## BGP RANGE

### HIGH-FREQUENCY PNEUMATIC POKERS

A HIGH FREQUENCY PNEUMATIC POKER DESIGNED WITH DURABILITY AND RELIABILITY IN MIND. EASY TO SERVICE AND ROBUST THE BGP POKER IS THE PROFESSIONAL AND PNEUMATIC SOLUTION FOR AIR REMOVAL FROM CONCRETE.



### FEATURES & BENEFITS

- Twist grip throttle provides easy operation.
- An In-line oiler removes moisture from compressed air systems and lubricates workings to prevent corrosion, adding reliability and durability.
- Easy servicing with removable nose cone and the only one wearing part (Tufnol Vane).
- Maintenance kits available for cost effective and easy servicing.
- High-frequency vibration gives high productivity and performance.
- Requires external air source.



Cutaway shows eccentric weight



Oil feed from In-line oiler



Twist grip throttle

Model	Part Number	Poker Diameter (mm) - (inch)	Head Length (mm)	Shaft Length (m)	Frequency (Hz)	Amplitude (mm)	Centrifugal Force (N)	Air Supply (cfm) - m <sup>3</sup> /min	Weight (kg)
BGP 27 c/w 4M Hose	166.9.021	28 - 1 1/8	235	4	300	1	1440	17.7 - 0.5	3.1
BGP 37 c/w 4M Hose	166.9.022	35 - 1 3/8	288	4	300	1.3	1924	21.2 - 0.6	4.1
BGP 47 c/w 4M Hose	166.9.019	45 - 1 3/4	312	4	283	1.7	3500	26.1 - 0.74	5.7
BGP 57 c/w 4M Hose	166.9.017	54 - 2 1/16	331	4	283	1.7	6050	29 - 0.82	7.12
BGP 67 c/w 4M Hose	166.9.020	65 - 2 1/2	352	4	300	2	9301	36 - 1.02	10
BGP 77 c/w 4M Hose	166.9.012	75 - 3	391	4	300	1.8	14851	43 - 1.2	13.9
BGP 87 c/w 4M Hose	166.9.018	85 - 3 5/16	430	4	283	2	27730	56.5 - 1.6	19

NO.1 FOR CONCRETING

# EASY SCREED PRO

## PROFESSIONAL FREE SCREEDER

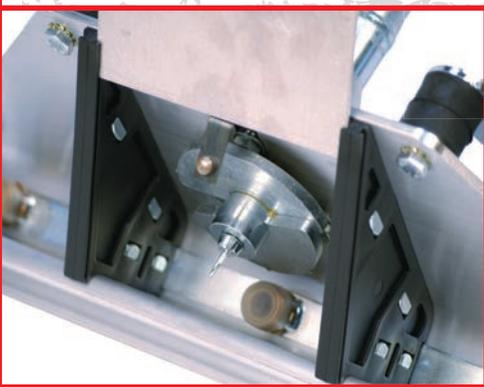
A HIGH PERFORMANCE FREE SCREEDING MACHINE, ULTIMATELY DESIGNED FOR LEVELLING AND VIBRATING CONCRETE SLABS WITHOUT THE NEED TO RUN OFF SUPPORTING FORM WORK.



NO.1 FOR CONCRETING

### FEATURES & BENEFITS

- Adjustable centrifugal force from the vibrator unit optimises performance with different concrete slumps and beam lengths. This ensures effective compaction and finishing.
- In-line flexible drive shaft for ultimate durability and reliability.
- High power 4 stroke Honda GX35 engine for high performance and reliability.
- Height adjustable handles for operator comfort and control.
- Different beam lengths available to suit application.
- Isolators ensure vibration is transmitted to the concrete and not the operator.
- Tool-free Quick Clamp enables quick and easy removal of the beam for transportation and storage.
- Double-sided beam profile with one side designed for form free screeding and the other for striking off between form work.
- Heavily reinforced beam for ultimate strength and vibration transmission.
- 9 different beam lengths available from 1.5m to 6m.



Close-up of adjustable centrifugal force



Form free screeding

# EASY SCREED PRO

## PROFESSIONAL FREE SCREEDER

THE DRIVE UNIT PROVIDES CONTROL AND HIGH POWER VIBRATION TO A REINFORCED ALUMINIUM BEAM. THE TOOL FREE REMOVAL AND REVERSING OF THE UNIQUELY SHAPED BEAM ALSO ALLOWS STRIKING OFF ACROSS TRADITIONAL FORM WORK.



NO.1 FOR CONCRETING



Free Screeding and form work screeding possible



Free Screeding and form work screeding possible



Simple one-man operation, even on large bays

Model	Part Number	Engine Power (Hp) - (kW)	Frequency (Hz)	Compaction Depth (mm)	Width (mm)	Height (mm)	Length (mm)	Vibration Level (m/sec <sup>2</sup> )	Weight (kg)
Easy Scream Pro Drive Unit - Honda GX31 Petrol	157.9.010	1.6 - 1.2	83	75	630	440	1040	3.75	19.5

Model	Part Number	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
1.5m Aluminium Beam	157.3.000	200	100	1500	6
1.9m Aluminium Beam	157.3.001	200	100	1900	8
2.5m Aluminium Beam	157.3.002	200	100	2500	10.5
3m Aluminium Beam	157.3.003	200	100	3000	12.5
3.75m Aluminium Beam	157.3.004	200	100	3750	15.5
4.25m Aluminium Beam	157.3.005	200	100	4250	17.5
5m Aluminium Beam	157.3.006	200	100	5000	20.5
*5.5 Aluminium Beam	157.3.007	200	100	5500	22.6
*6m Aluminium Beam	157.3.008	200	100	6000	24.6

\*Note: 2 drive units recommended to ensure full compaction on 5.5m & 6m beams.

# PORTO SCREED

## TWIN-BEAM SCREED



A TWIN VIBRATING BEAM SCREED FOR STRIKING OFF AND VIBRATING CONCRETE BETWEEN FORM WORK. ITS HEAVY-DUTY ROBUST CONSTRUCTION MAKES IT SUITED TO RENTAL AND DEMANDING USERS.

### FEATURES & BENEFITS

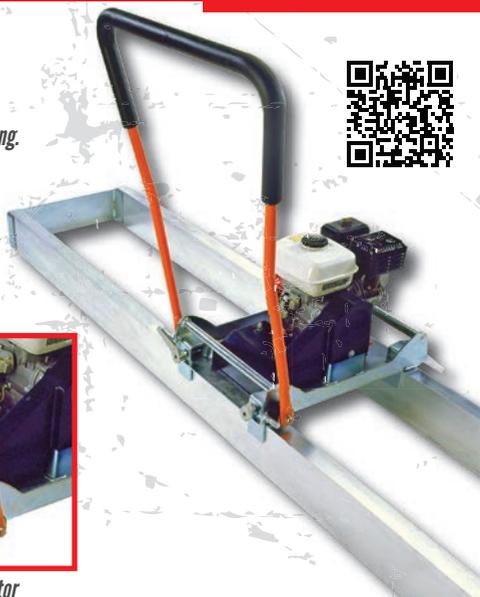
- Drive unit is plated for easy cleaning and to prevent corrosion.
- Concrete is vibrated to a depth of 150mm.
- Enclosed vibrator and drive housing for lower maintenance.
- Fitted with low Hand-Arm Vibration comfort handles for easy pulling.
- Quick Clamp system for tool free on site assembly.
- Drive unit under 50kg for an easy two-man lift on site.
- Simplicity, ease of use and robustness, suits rental organisations.
- A range of fixed and extending beams available from 3.25m to 7.2m lengths.



Aluminium end frames



Fully enclosed vibrator



NO.1 FOR CONCRETING

Model	Part Number	Engine Power (Hp) - (kw)	Frequency (Hz)	Compaction Depth (mm)	Force (kN)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Porto Screed - Honda GX120 Petrol	149.9.000	4 - 2.9	80	150	3.1	704	440	1040	49

### OPTIONS

Description	Part Number	Weight (kg)	Description	Part Number	Weight (kg)
5.2m Alu Beams only (set of 2)	36.8.031	48	5.2m Alu Beams & End Frames (set of 2)	149.9.039	53.5
6.2m Alu Beams only (set of 2)	36.8.032	57	6.2m Alu Beams & End Frames (set of 2)	149.9.040	62.5
7.2m Alu Beams only (set of 2)	36.8.033	66	7.2m Alu Beams & End Frames (set of 2)	149.9.041	71.5
Solid end pull handles (Set of 2)	149.9.001	3	5.2m Alu Beams, End Frames & Pull Handles (sets of 2)	149.9.042	56.5
End Frames (Set of 2)	149.9.003	5.5	6.2m Alu Beams, End Frames & Pull Handles (sets of 2)	149.9.043	65.5
Extending beams 3.25 to 5.2m comp.	149.9.004	56	7.2m Alu Beams, End Frames & Pull Handles (sets of 2)	149.9.044	74.5

\*Note: 2 drive units recommended to ensure full compaction on 6.2m & 7.2m beams.

# HAND TAMPER

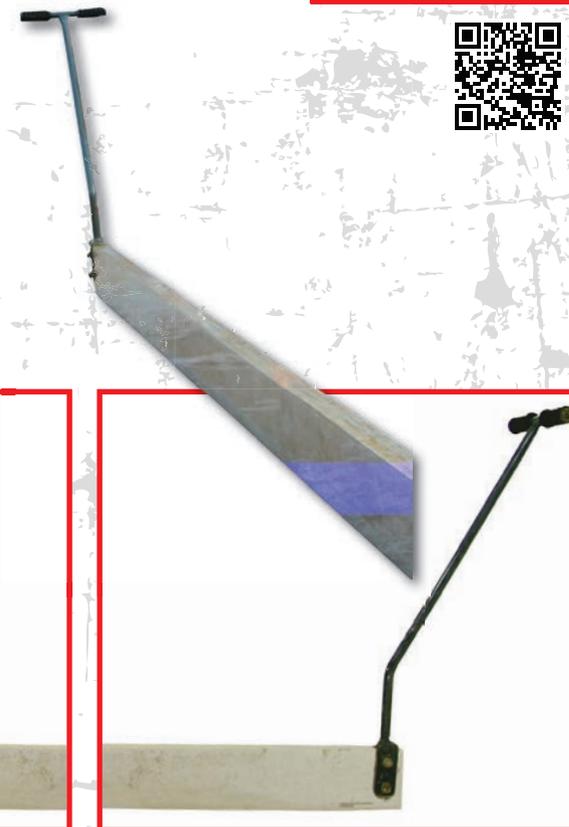
## MANUAL TAMPING BEAM



A MANUALLY-OPERATED LIGHTWEIGHT ALUMINIUM TAMPING BEAM DESIGNED FOR COST-EFFECTIVE LEVELLING OF CONCRETE PADS. THE HAND TAMP REQUIRES TWO OPERATIVES TO MANUALLY TAMP AND DRAG THE CONCRETE TO THE FINISHED LEVEL.

### FEATURES & BENEFITS

- Low cost option for levelling concrete.
- Highly durable with no moving parts.
- Waist-height handles to minimise operator effort.
- Choice of beam lengths to suit application.
- Lightweight design for ease of use.
- Maintenance free design.



Simple design with beam lengths from 5.2m to 7.2m

Description	Part Number	Weight (kg)
Hand Tamper handles (set of 2)	36.3.024	4
5.2m single beam pre drilled	36.8.043	24
6.2m single beam pre drilled	36.8.044	29
7.2m single beam pre drilled	36.8.045	33

# ROLLER STRIKER

## HYDRAULIC SPINNING SCREED

THE ROLLER STRIKER STRIKES OFF AND FINISHES CONCRETE SLABS QUICKLY AND EASILY. A SPINNING TUBE PULLS UP THE SURCHARGE OF CONCRETE AS IT GOES.



### FEATURES & BENEFITS

- Simple and very rapid operation - just pull a spinning tube along form work.
- Quick and easy to set up by connecting two pull handles and a hose to the power source.
- Virtually self-cleaning with the tube requiring just a light hosing down.
- Highly maneuverable making it easy to strike off suspended floor, slopes and very large areas.
- Round Pin connection.
- Ideal for use with the Altrad Belle Major 30-140 Hydraulic Power Pack.
- Tube Carry Handle, Loading Ramp and Skate options available.

For a complete Roller Striker order:

- Hydraulic Drive Kit
- Tube to suit bay width

An external power source is required. For best results use an Altrad Belle Major 30-140; 30ltr Hydraulic Power Pack (See Page 105 for details)



Roller Striker Skate Option



Roller Striker Tube Carry Handle Option

NO.1 FOR CONCRETING



# ROLLER STRIKER

## HYDRAULIC SPINNING SCREED

THE SPINNING ROLLER ACTION LEAVES AGGREGATE NEAR THE SURFACE RESULTING IN A VERY STRONG FLOOR, READY FOR POWER TROWELLING IF REQUIRED.



NO.1 FOR CONCRETING



Roller Striker Tube Loading Ramp Option on Truck Headboard

Model	Part Number	Drive Power (Hp) - (kw)	Max Drive Speed (rpm)	Pressure Required (bar)	Flow Required (l/min)	Weight (kg)
Hydraulic Drive Kit	129.9.350	3 - 2.2	500	140	30	20.5

Description	Part Number	Weight (kg)
3.66m 12' Tube only	129.0.012	43
4.26m 14' Tube only	129.0.014	50
4.88m 16' Tube only	129.0.016	57
5.49m 18' Tube only	129.0.018	64
6.10m 20' Tube only	129.0.020	70
6.71m 22' Tube only	129.0.022	77
7.32m 24' Tube only	129.0.024	84
7.92m 26' Tube only	129.0.026	91
Belle drive to Bunyan tube adaptor kit	129.3.009	-

### OPTIONS

Description	Part Number
Tube Carry Handle (set of 2)	OPH/08/D10
Loading Ramp	OPH/09/D10
Skate	OPH/10/D10

## FLOATS & TOOLS

### CONCRETE FINISHING TOOLS

FLOATS ARE USED TO SMOOTH AND IMPROVE THE SURFACE OF THE CONCRETE. THE FLOATS SWIVEL HEAD ALLOWS THE BLADE TO BE PUSHED AND PULLED ACROSS THE SURFACE.



### FEATURES & BENEFITS

#### Easy Bull Float

- A lightweight magnesium alloy blade with reinforcement to prevent warping.
- Rounded corners on float head to reduce track marks when floating.
- Robust heavy-duty design for tough site conditions and rental fleets.
- Alloy 'Knuckle Head' for extra strength and durability.

#### Big Blue Float

- A tempered Blue Steel blade that achieves an ultra fine finish.
- Extra rounded corners to prevent track marks when floating.
- The sprung steel blade glides over concrete while surface is firm but workable.
- Alloy 'Knuckle Head' for extra strength and durability.

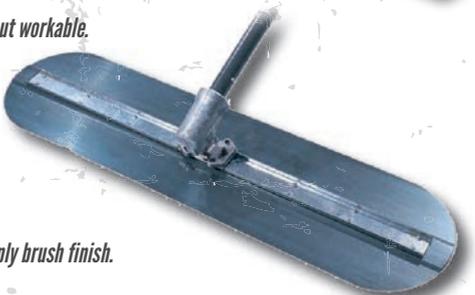
#### Fresno Broom

- A special combination float for applying a consistent brushed non-slip finish to concrete.
- Leaves a tidy and consistent brushed finish.
- Push over concrete to improve surface consistency then pull to apply brush finish.
- Softer brush available as a spare part.
- Alloy 'Knuckle Head' for extra strength and durability.



Big Blue Float

NO.1 FOR CONCRETING



## FLOATS & TOOLS

### CONCRETE FINISHING TOOLS

- FLOATS IMPROVE FINAL SURFACE DURABILITY, FINISH AND QUALITY BY REDUCING SURFACE LAITANCE.
- WITH 3 EXTENSION HANDLES A 6M BAY CAN BE FLOATED.
- ROBUST KNUCKLE HEAD ALLOWS THE BLADE TO BE ANGLED FOR EASE OF USE AND CONTROL ON FINISH.



### FEATURES & BENEFITS

#### Concrete Placer

- A special rake style tool that makes it easy to drag concrete when slab pouring.
- Double-edge blade, one side for moving higher volumes of material and the other for small surface adjustments.
- Reduces the effort required compared to using conventional rakes and shovels.
- Can also be used as a small surface tamper.

#### Concrete Rake

- A special rake tool that makes it easy to drag concrete when pouring slabs.
- Double-edge blade, one side for moving higher volumes of material, the other uses a serrated edge for the finest surface adjustment.
- Reduces the effort required compared to using conventional rakes and shovels.
- Can also be used as a small surface tamper.



NO.1 FOR CONCRETING

Model	Part Number	Width (mm)	Depth (mm)	Total Handle length (m)	Head Weight c/w swivel (kg)	Total Handle Weight (kg)
Easy Bull Float c/w swivel & handles	50901	1200	200	5.4	6	3.6
Easy Bull Float c/w swivel (no handle)	50.3.006	1200	200	N/A	6	N/A
Big Blue c/w swivel and handles	50903	1200	300	5.4	7.5	3.6
Big Blue c/w swivel (no handle)	50.3.005	1200	300	N/A	7.5	N/A
Fresno Broom c/w swivel and handles	50905	900	220	5.4	6	3.6
Fresno Broom c/w swivel (no handle)	50.3.008	900	220	N/A	6	N/A
Handle section 1 only	50010	N/A	N/A	1.8	N/A	1.2
Concrete Placer	50.9.005	495	115	1.4	1.5	0.5
Concrete Rake	50.9.007	570	130	1.4	1.5	0.5

# PRO / PRO-TILT

## 900mm & 1200mm POWER TROWELS

DESIGNED TO PROVIDE CONTRACTORS WITH THE FEATURES AND PERFORMANCE THEY NEED. THESE MACHINES ARE USED FOR LONG PERIODS SO THE PRO TROWEL GIVES IMPROVED OPERATOR COMFORT AND EASY CONTROL. SMOOTH RUNNING HELPS ACHIEVE A HIGH QUALITY FINISH.



### FEATURES & BENEFITS

- Deadmans Handle engine cut out, stops the trowel quickly and safely.
- Designed for continuous use on large floors.
- Accurate screw adjusted pitch control option or Pro Tilt system option for rapid blade adjustment.
- Self operated clutch system for ultimate low speed control & easy starting.
- Easy lift with carry handles and carry bar.
- Excellent operator comfort with padded, height-adjustable handlebars.
- Sliding guard rail enables wall to wall trowelling (1200 only).
- Central lifting point.
- Transporter Attachment available.
- Customer colour options available.

NO.1 FOR CONCRETING



Transporter Attachment



'Pro Tilt' System

Model	Part Number	Engine Power (Hp - kw)	Trowelling Dia. (mm) - (inch)	Trowelling Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Pro Tilt 900 - Honda GX200 Petrol	PTLW931	5.8 - 4.3	910 - 36	65 - 131	975	1005	2021	98.5
Pro Tilt 900 Folding Handle - Honda GX200 Petrol	PTLW951	5.8 - 4.3	910 - 36	65 - 131	975	1005	2021	98.5
Pro Tilt 1200 - GX270 Honda Petrol	PTC12005	9 - 6.7	1140 - 48	65 - 131	1170	1005	2130	114.5

### OPTIONS

Description	Part Number	Description	Part Number
Pro 900 - Float Pan	128.8.000	Pro 1200 - Float Pan	160.8.000
Pro 900 - Float Blades (4)	111.8.000	Pro 1200 - Float Blades (4)	111.8.010
Pro 900 - Finishing Blades (4)	111.8.001	Pro 1200 - Finishing Blades (4)	111.8.011
Pro 900 - Combination Blades (4)	111.8.002	Pro 1200 - Combination Blades (4)	111.8.012
Transporter Attachment	OPT/08/D10		

# PRO 600X

## 600mm POWER TROWEL

A SMALL POWER TROWEL FOR PRODUCING A HIGH SPECIFICATION FINISH ON CONCRETE. THE PRO 600X TROWEL IS COMPACT AND IDEAL FOR CONFINED AREAS. THE SPINNING GUARD ENABLES WALL-TO-WALL TROWELLING.



### FEATURES & BENEFITS

- Narrow design enables trowelling through doorways.
- Folding handle for compact storage.
- Complete with float pan for pre-surface finishing.
- Clutch control system enables easy starting and ultimate control.
- Spinning guard ring for wall-to-wall trowelling.

NO.1 FOR CONCRETING



Spinning guard ring



Screw pitch adjustment



Folding Handle for Easy Storage



Model	Part Number	Engine Power (Hp - kw)	Trowelling Diameter (mm) - (inch)	Trowelling Speed (rpm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Pro 600X - Honda GX120 Petrol	MT01	4 - 2.9	600 - 24	50 - 115	600	930	1500	67

### OPTIONS

Description	Part Number
Pro 600X - Float Pan	945/00200
Pro 600X - Finishing Blades (4)	945/99518



**CUTTING**  
FLOOR SAWS, BENCH SAWS, PAVING TOOLS, DIAMOND BLADES



## MINIPAVE COMPACT BLOCKSPLITTER

A COMPACT AND LIGHTWEIGHT BLOCK SPLITTER DESIGNED FOR CUTTING STANDARD 100MM X 200MM BLOCK. THE MINIPAVE IS IDEAL FOR SMALLER JOBS WHERE ITS PORTABILITY MAKES THE OPERATOR'S JOB QUICKER AND EASIER.



### FEATURES & BENEFITS

- Simple to operate and safe to use, making it ideal for a range of users.
- Cam action with composite bearings gives very high cutting force.
- Works at floor level so the operator does not need to stand to cut blocks.
- Compact, lightweight and highly portable to aid transport and storage.
- Robust with maintenance free operation.
- Four-sided blades give increased life.

NO.1 FOR CUTTING



Lightweight and compact - will fit into any car



Four sided heavy duty blades



Large handle for easy cutting



Can easily be carried around site

Model	Part Number	Cut Force (kgf) - (kN)	Blade Type	Cam Movement	Adjustment Screws (mm)	Block Depth (mm)	Max Cut Length (mm)	Weight (kg)
Minipave Block Splitter (c/w Blades)	155.9.000	3200 - 31.4	2 off 8mm square section 250mm long	Block Clearance 3mm - Cutting 2mm	Fast acting - Trapezoidal 40mm	Max 87mm Min 47mm	250	18

### OPTIONS

Description	Part Number
Minipave Replacement Blade (2 required per Block Splitter)	155.0.025

# MAXIPAVE

## HEAVY-DUTY BLOCKSPLITTER

A HEAVY DUTY BLOCK SPLITTER DESIGNED FOR CUTTING ALL COMMON TYPES OF BLOCK PAVING. THE LONG CUTTING HANDLE MAKES IT EASY TO CUT EVEN THE THICKEST OF BLOCKS.



NO.1 FOR CUTTING

### FEATURES & BENEFITS

- High performance split achieved through cam action and extra long cutting handle.
- Easy to adjust to block size with large thread, single screw adjuster.
- Lock-down handle and wheels for easy on site wheeling.
- Folding handle for easy transportation and storage.
- Ultra robust and reliable design.
- 1 to 152 pressure ratio.



Folding Handle for easy storage



Large thread screw adjuster



Large handle for easy cutting

Model	Part Number	Cut Force (kgf - kN)	Max. Cutting Length (mm)	Max Cutting Height (mm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Maxipave Block Splitter (c/w Blades)	MBS08	4650 - 45.6	400	120	315	585	1170	35.5

### OPTIONS

Description	Part Number
Maxipave Replacement Blade	976/99904

# BLOCK PAVING EQUIPMENT

## MAINTENANCE TOOLS

A RANGE OF HAND TOOLS DESIGNED TO MAKE THE LAYING AND MAINTAINING OF BLOCK PAVING SETS QUICK AND EASY.



NO.1 FOR CUTTING

### FEATURES & BENEFITS

#### Block Mallet

- Designed to force blocks into place without marking or damaging.
- Square-shaped head to achieve best contact and reduce the risk of potential damage.
- 3kg square rubber head, 700mm long extra thick handle.

#### Gap Wedge

- Used to force a gap between laid blocks for extraction or maintenance.
- Fitted with two sizes of hardened wedges.

#### Block Lifter

- Lifts a block out from a set with no damage.
- Adjusts to accept block sizes between 90 - 240mm.
- Long handles for ease of operation.



Ideal for positioning and extracting blocks



Effortless block extraction with no damage

Description	Part Number	Weight (kg)
Gap Wedge	MBS02	3.0
Block Lifter	MBS09	3.1
Block Mallet	MBS04	7.0

# BC 350

## 350mm MASONRY BENCH SAWS

A PORTABLE ELECTRICAL BENCH SAW DESIGNED FOR CUTTING A RANGE OF MATERIALS SUCH AS BRICKS, SLABS AND LARGE TILES. POWERFUL AND EASY TO USE, THE BC 350 IS IDEAL FOR CONTRACTORS AND RENTAL USERS.



### FEATURES & BENEFITS

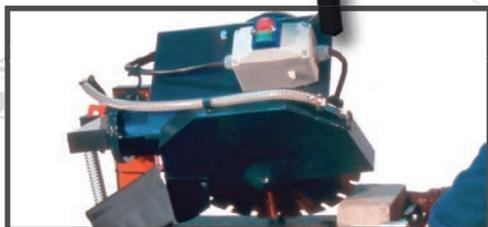
- Straight and accurate cutting is achieved through the use of a sliding table fitted with seize-free rollers.
- Powerful, quiet and maintenance-free induction motor for fast, effective cutting.
- Dust free operation from a highly reliable submersible electric pump.
- Detachable legs for ease of transport and storage.
- Cutting head can be tilted and raised or lowered for mitre and height adjustable cutting.
- Long 650mm cut length for cutting materials such as large slabs.

NOTE: On 110v machines a 5kVA minimum transformer size is recommended.

NOTE: Suitable 16amp supply required for 230v machines.



Ideal for cutting large bricks, slabs etc.



45° cutting capabilities

Model	Part No.	Motor Power (Hp) - (kW)	Blade Size (mm)	Blade Speed (rpm)	Max Cut Depth (mm)	Length of cut (mm)	Tank Cap (ltr)	Dimensions (W x H x L) (mm)	Weight (kg)
BC 350 - 110v 1ph 32Amp Electric	171.9.000	3.0 - 2.2	350 x 25.4	3000	128	650	50	662 x 1265 x 1137	79
BC 350 - 230v 1ph 16Amp Electric	171.9.001	3.0 - 2.2	350 x 25.4	3000	128	650	50	662 x 1265 x 1137	79

For advice and full information on cutting blades to match your requirements please call the Altrad Belle service on: 01298 84606

# MS 500

## 500mm MASONRY BENCH SAWS

A HEAVY DUTY AND ROBUST HIGH CAPACITY TABLE SAW. THE MS 500 SAW HAS A HOST OF FEATURES FOR IMPROVED SAFETY, PORTABILITY, EASE OF USE AND PRODUCTIVITY. DESIGNED FOR CUTTING ALL TYPES OF MATERIALS.



### FEATURES & BENEFITS

- Straight & accurate cutting is achieved through the use of a sliding table fitted with seize free rollers.
- Fitted with wheels and fold away handles for ease of transportation and maneuverability.
- Dust-free operation from a highly reliable submersible pump.
- Cutting head can be raised and lowered either by hand or foot mechanisms for ease and speed of use.
- Easy-to-reach controls for added safety.
- Forklift Points for safe transportation.
- Wrap-around handle for left and right hand use.
- Machine splits in two for ease of transportation and storage.
- Extra large blade guard to take larger blades for increased depth of cut.

NOTE: On 110v machines a 10KVA minimum transformer size recommended.



Forklift Points for safe transportation



Easy to access controls for added safety

Model	Part Number	Engine Power (Hp) - (kW)	Blade Size (mm)	Blade Speed (rpm)	Max Depth of Cut (mm)	Length of cut (mm)	Tank Capacity (ltr)	Dimensions (W x H x L) (mm)	Weight (kg)	Noise Level (dB(A))
MS 500 - Honda GX160 Petrol	MSS01	5.5 - 4.1	500 x 25.4	2256	195	560	57.3	715 x 1590 x 1410	202.5	107
MS 500 - 110v 1ph 32Amp Electric	MSS07	3.35 - 2.5	500 x 25.4	2256	195	560	57.3	715 x 1590 x 1410	202.5	107
MS 500 - 230v 1ph 16Amp Electric	MSS13	3.35 - 2.5	500 x 25.4	2256	195	560	57.3	715 x 1590 x 1410	202.5	107

For advice and full information on cutting blades to match your requirements please call the Altrad Belle service on: 01298 84606

NO.1 FOR CUTTING



# DUO 350X

## 350mm TWIN-BLADE FLOOR SAW

A ROBUST, HIGH STANDARD TWIN BLADE FLOOR SAW SPECIFICALLY DESIGNED FOR MICRO-TRENCHING. DESIGNED WITH THE INDUSTRY'S LOWEST HAND ARM VIBRATION LEVELS.



NO.1 FOR CUTTING

### FEATURES & BENEFITS

- Low Hand Arm Vibration levels - Patented design.
- Twin Blade setup reduces operation times.
- Innovative Guard that never exposes the Blades.
- Ideal for trench cutting.
- Easily transported (Fits into back of small van).
- Specially moulded 25 litre detachable water tank with built in water level gauge.
- Foot operated depth adjustment for speed, simplicity and safety.
- Robust construction to survive the heaviest contract work.
- Can be used for single Blade operation.



Twin Blade Setup Reduces Operation Time



Robust Blade Depth Adjustment Foot Pedal

# DUO 350X

## 350mm TWIN-BLADE FLOOR SAW

FEATURES AN ENGINE PROTECTION FRAME TO PROTECT THE SAW IN THE WORST OF CONDITIONS. SIMPLE TO OPERATE AND SAFE TO USE AND CAN BE USED FOR SINGLE BLADE OPERATION ALSO. THE IDEAL CONTRACTORS' SAW.



NO.1 FOR CUTTING



25 litre detachable water tank with built in water level gauge



100mm Cutting Width



Innovative Guard that never exposes the Blade

Model	Part Number	Engine Power (Hp) - (KW)	Blade Size (mm)	Blade Speed (rpm)	Max Depth of Cut (mm)	Cutting Width (mm)	3-Axis vibration (m/sec <sup>2</sup> )	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Duo 350X - Honda GX390 Petrol	DSXA01	13 - 9.69	350 x 25.4	3600	120	100	3.6*	618	1019	870	120

\*Vibration levels tested to BS5349 using EN 500-4

For advice and full information on cutting blades to match your requirements please call the Altrad Belle service on: 01298 84606

# COMPACT 350X

## 350mm FLOOR SAW

A HIGH SPECIFICATION FLOOR SAW WITH INDUSTRY'S LOWEST LOW HAND ARM VIBRATION LEVELS. FEATURES AN ENGINE PROTECTION FRAME TO PROTECT THE SAW IN THE WORST OF CONDITIONS. SIMPLE TO OPERATE AND SAFE TO USE - THE IDEAL CONTRACTORS' SAW.



### FEATURES & BENEFITS

- Very low Hand Arm Vibration levels for the longest safe usage times.
- Easily transported (fits in the back of a small van).
- Specially moulded 25-litre detachable water tank.
- Foot operated depth adjustment for speed, simplicity and safety.
- Robust construction to survive the heaviest contract work.
- Adjustable handle height.
- Effective dust suppression.



Quick connection water tank system



Foot operated depth control



Heavy duty easily accessible Blade guard

Model	Part Number	Engine Power (Hp) - (kW)	Blade Size (mm)	Blade Speed (rpm)	Max Depth of Cut (mm)	3-Axis vibration (m/sec <sup>2</sup> )	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Compact 350X - Honda GX390 Petrol	CSXA01	13 - 9.69	350 x 25.4	3600	125	2.8*	510	1095	830	96

\*OPERC independent testing/Vibration levels tested to BS5349 using EN 500-4  
For advice and full information on cutting blades to match your requirements please call the ALTRAD Belle service on: 01298 84606

NO.1 FOR CUTTING



# RANGER 450

## 450mm FLOOR SAW

A VERY PRODUCTIVE FLOOR SAW FOR ALL FLOOR & ROAD APPLICATIONS IN CONCRETE & ASPHALT. ITS ACCURATE CONTROL & GOOD STABILITY ENSURES SMOOTH CUTTING AND REDUCES BLADE WEAR. AN IDEAL MACHINE FOR RENTAL AND ENDURANCE WORK PRODUCTIVITY. DESIGNED FOR CUTTING ALL TYPES OF MATERIALS.



NO.1 FOR CUTTING

- Accurate easy moving Hand Wheel depth adjustment.
- 50 litre corrosion resistant water tank.
- Easy to operate and accelerate with efficient weight distribution.
- Central lifting points and handles fitted as standard.
- Cutting depth gauge with indicator for both 400 & 450mm blades.
- Petrol Honda or Diesel Lombardini engine options.



Easily accessible Blade guard



Heavy Duty Hand Wheel

Model	Part Number	Engine Power (Hp) - (kW)	Blade Size (mm)	Blade Speed (rpm)	Max Depth of Cut (mm)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Ranger 450 - Lombardini 15LD 440 Diesel	RAN02	11 - 8.1	450 x 25.4	2615	160	650	950	1250	140
Ranger 450 - Honda GX390 Petrol	RAN01	13 - 9.6	450 x 25.4	2615	160	650	950	1250	126

For advice and full information on cutting blades to match your requirements please call the Altrad Belle service on: 01298 84606

# DIAMOND BLADES

OUR PLATINUM RANGE OF DIAMOND BLADES HAS A DOUBLE LASER WELDED 10MM HIGH DIAMOND SEGMENT. THESE HAVE BEEN DESIGNED TO GIVE EXCELLENT SPEED OF CUT AND A VERY LONG LIFE. EXCELLENT VALUE FOR MONEY. OUR GOLD & BRONZE RANGE OF DIAMOND BLADES ARE DESIGNED TO PROVIDE GOOD PRODUCTIVITY LEVELS AT THE LOWEST POSSIBLE COST. THERE IS A BLADE TO SUIT EVERYONE'S NEEDS.



NO.1 FOR CUTTING

# DIAMOND BLADES

OUR SPECIALIST RANGE OF DIAMOND BLADES HAS A 10MM OR 12MM HIGH SEGMENT WITH HIGH DIAMOND CONCENTRATION. THE PUX RANGE IS THE ULTIMATE MULTI PURPOSE DIAMOND BLADE.



NO.1 FOR CUTTING

Application	Disc Quality	PLATINUM	GOLD			BRONZE
		★★★★★	★★★★★			★★
Band (segment)	Application Material	Multi Materials	Hard Materials	General Materials	Asphalt	General Purpose
	Product Code	PUX	GH	GGP	GA	BGP
Hard	Sort					
	Mild Steel Rods & reinforcement	★★	X	X	X	X
	Scaffolding Tube	★★	X	X	X	X
	Granite	★★★	★★★	X	X	X
	Engineering Blocks	★★★	★★★	X	X	X
	Old Cured Concrete	★★★	★★★	X	X	X
	Clay Pipes	★★★	★★★	X	X	X
	Dense Clay Bricks	★★★	★★★	X	X	X
	Clay/Hard Pavers	★★★	★★★	*	X	X
	Hard Facing Bricks	★★★	★★★	*	X	*
	Concrete Paving Slabs	★★★	★★★	★★	X	*
	Reinforced Concrete Lintels	★★★	★★	★★★	X	*
	Cured Concrete	★★★	*	★★★	X	★★
	Concrete Pipes & Kerbs	★★★	*	★★★	X	★★
	Medium Facing Bricks	★★★	*	★★★	X	★★
	Hard Sandstones	★★★	*	★★★	X	*
	Slate	★★★	X	★★★	X	*
	Medium Block Pavers	★★★	X	★★★	X	*
	Concrete Roofing Tiles	★★★	X	★★	X	*
	Medium Sandstones	★★★	X	*	*	★★
Asphalt Over Concrete	★★★	X	X	★★	X	
Breeze Blocks	★★★	X	*	★★	*	
Green Concrete	★★★	X	X	★★★	X	
Hard	Sort					
	Lignacite & Aerated Blocks	★★★	X	X	★★★	X
Soft	Asphalt	★★★	X	X	★★★	X

★★★★ High Performance - Excellent cutting speed and life. ★★★ Good Performance - Cutting speed and life. ★★ Recommended - Acceptable cutting speed and life. ★ Acceptable - Will do the job. X Not Suitable. For further information, please contact our specialist Diamond Team on: 01298 84606



## Platinum Universal Xtra (PUX)

A special fast cutting universal design for all Concrete (including Green Concrete), Asphalt (including Asphalt over Concrete) Masonry Materials (such as Concrete Paving Slabs & Brick) including drop segments for undercut protection.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
PUX30020	300 x 20	6360	10
PUX35025	350 x 25	5450	10
PUX45025	450 x 25	3395	12



# DIAMOND BLADES

THE GOLD RANGE OF 10 - 15MM HIGH SEGMENT DOUBLE LASER WELDED DIAMOND PRODUCTS IS A RANGE OF HIGH QUALITY BLADES SPECIFICALLY DESIGNED TO PROVIDE GOOD PRODUCTIVITY LEVELS AT THE LOWEST POSSIBLE COST.

BLADES 300MM AND OVER INCLUDE 15MM UNDERCUT PROTECTION-SEGMENTS.



NO.1 FOR CUTTING



### Gold Hard (GH)

For hard non-abrasive products. Very hard concrete, class A engineering bricks, 65-100 Newton clay paviors, hard flint aggregate concretes. Reinforced concrete lintels, kerbs and hard paving slabs. Hard clay roof tiles, hard slate.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
GH30020	300 x 20	6360	15
GH35025	350 x 25	5450	15
GH45025	450 x 25	3395	15



### Gold General Masonry (GGP)

For extensive use on a wide range of products including most medium aggregate concretes. General masonry products, stock paving bricks, most roofing tiles and hard sandstones.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
GGP35025	350 x 25	5450	15
GGP45025	450 x 25	3395	15
GGP50025	500 x 25	5450	15



### Gold Asphalt (GA)

For use on Asphalt, some asphalt over concrete, medium to soft sandstone, abrasive blocks, breeze blocks, green concretes, and other highly abrasive applications.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
GA30020	300 x 20	6360	10
GA35025	350 x 25	5450	10
GA45025	450 x 25	3395	10



# DIAMOND BLADES

THE BRONZE RANGE OF 10MM HIGH DIAMOND BLADES HAS A HIGH DIAMOND CONCENTRATION AND ARE FOR USE BY THE GENERAL BUILDING TRADES THAT WANT A BLADE WITH THE CORRECT PERFORMANCE/COST RATIO THAT SURPASSES OTHER BLADES IN THIS PRICE RANGE.

THE PLATINUM CONTINUOUS RIM DIAMOND BLADES ARE IDEAL FOR PRECISION CUTTING OF HARD MATERIALS.



NO.1 FOR CUTTING



### Bronze General Masonry (BGP)

For extensive use on a wide range of products including most medium aggregate concretes, general masonry products and building media, stock paving bricks, most roofing tiles and hard sandstones.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
BGP23022	230 x 22	6650	10
BGP30020	300 x 20	6360	10



### Continuous Rim Tile Cutting Blade (CRT)

For precision cutting of hard materials such as granite, ceramic tiles, quarry tiles, floor tiles and slate tiles. Very high diamond concentration giving long life.

Part Number	Size (mm)	Speed (rpm)	Segment Height (mm)
CRT18025	180 x 25	8730	10
CRT20025	200 x 25	7600	10
CRT23025	230 x 25	6650	10

# DIAMOND BLADES

ALTRAD BELLE OFFERS A RANGE OF DIAMOND BLADES ALL MANUFACTURED TO ISO, FEPA AND DSA INTERNATIONAL STANDARDS.

THE SAFETY GUIDELINES BELOW EXPLAIN HOW TO ENSURE THAT THE OPERATORS SAFETY IS MAINTAINED.



NO.1 FOR CUTTING

# DIAMOND BLADES

AS PART OF OUR ONGOING COMMITMENT TO CUSTOMER SAFETY, WE HOPE YOU WILL FIND THESE GUIDES A USEFUL TOOL IN ASCERTAINING ANY PROBLEMS YOU MAY COME ACROSS FROM TIME TO TIME WHEN USING ALTRAD BELLE DIAMOND BLADES.



NO.1 FOR CUTTING

## General

- The correct specification blade has been selected for the application.
- The machine selected for the operation is of the correct specification and has been serviced to a standard that complies to the manufacturer's service recommendations.
- That the machine complies or exceeds all relevant health and safety regulations.
- That the area of operation is clean and tidy and complies with any need for barriers, signs, warning notices etc.
- That the operator has been properly trained and certified for machine operation and health and safety regulations.
- That in the case of electrically powered machines, the machine is of the correct voltage and that the site supply is adequate both in terms of power supply and compliance to site electricity supply regulations.
- Always ensure that when fitting a blade the machine is disconnected from the power source & correct tools used.
- That the site is free of pets and children.

## Using the Diamond product ensure that:

- The blade or bit is operating at the manufacturer's recommended speed.
- The blade or bit is fed into the work at a suitable rate.
- In the case of wet cutting an adequate supply of water is available.
- The blade is in an undamaged condition.
- The blade is never twisted or forced in the cut.  
The blade is gradually lowered into the material being cut.
- The material being cut is not hand or foot restrained.
- The blade and machine are inspected for wear or damage prior to each use.

## For your personal safety always ensure that you:



Wear suitable ear defenders.



Wear suitable foot wear.



Wear suitable eye protection.



Wear suitable protection against dust.

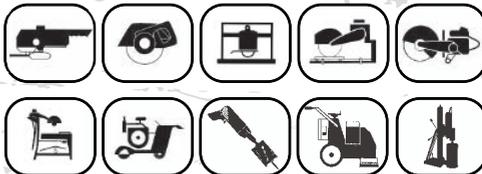


Wear suitable clothing.



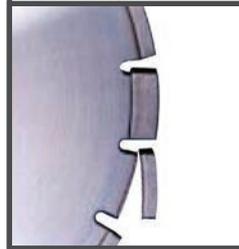
Read the instructions carefully.

## Types of equipment used with diamond products:



## Segment Loss

- Blade has twisted or jammed in the cut because the material was not held firmly.
- Machine has been twisted or turned while blade is in the cut.
- Blade core has undercut due to cutting below the asphalt into the sub-base.
- Blade is too hard for the material being cut, resulting in the blade hammering in the cut.
- Blade is deflected in the cut due to the blade flanges being worn or deformed and failing to provide proper support.
- Inadequate water supply.



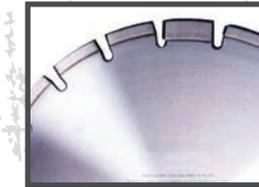
## Damaged Arbor Hole

- Blade will hammer if it is incorrectly aligned when mounted. Make sure that the blade is mounted on the correct diameter spindle before tightening.
- Make sure that the pin holes slide over the drive pin.
- The blade will spin or vibrate on the spindle if the flanges are not properly tightened.
- The blade will pound if the saw shaft is badly worn or grooved.



## Blade not Cutting

- Check that specification is correct for the material. Dull blades can be sharpened by cutting a soft abrasive material.
- Machine drive belts need re-tightening or the machine has insufficient horsepower for the specification being used.
- Check direction of rotation.

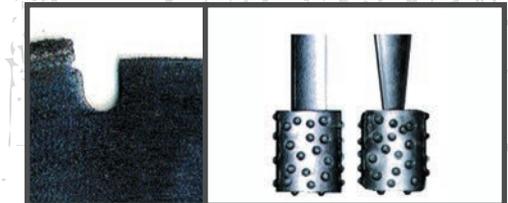


## Undercutting

- The effect of premature wear of the steel core is a particular

problem in asphalt, fresh concrete and other highly abrasive materials

- Segment loss may result from the steel core wearing to a knife edge just below the segment.



- Make sure that the blade specification has offset segments to assist removal of the slurry from the cut.
- Make sure that the blade is not cutting below the asphalt into the sub-base. Constant rubbing of the loose material causes premature wear and has no beneficial effect on the cut surface.
- Make sure that the water supply is correct as increased water flow will wash slurry from the contact area and reduce undercutting.

# DIAMOND BLADES

AS PART OF OUR ONGOING COMMITMENT TO CUSTOMER SAFETY, WE HOPE YOU WILL FIND THESE GUIDES A USEFUL TOOL IN ASCERTAINING ANY PROBLEMS YOU MAY COME ACROSS FROM TIME TO TIME WHEN USING ALTRAD BELLE DIAMOND BLADES.



NO.1 FOR CUTTING

# DIAMOND BLADES

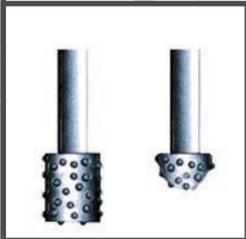
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NO.1 FOR CUTTING

## Rapid Wear

- Blade specification is causing the diamond to be overexposed. Use a blade with a harder bond system.
- If the blade wears out of round this will increase the wear normally due to bad bearing, worn shaft or the blade specification being too hard for the material.
- An inadequate water supply can cause damaged or



- Softening of the blade specification and low blade speed can be caused by loose drive belts.

## Tension Loss

- Blade core overheated.



- For wet cut blades ensure sufficient water supply.
- Check machine is running at correct rpm, that the flanges are of the correct and same size and that there is no wear on the machine bearing.

- The blade is deviating in the cut because it is too hard for the application.
- Ensure that the blade is not spinning on the spindle and that it is secure.
- Ensure that the blade is cutting in straight lines only.

## Over Heating

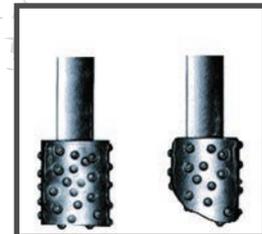
- Most common cause of blade failure. Overheating can cause many other problems such as core cracks, loss of tension, and segment loss.
- Overheating will usually cause black or bluish



- discoloration on the core.
- In wet cutting - inadequate water supply due to low water pressure, blocked or damaged water tubes or dust suppression systems being inadequate for wet cut blades.

- In dry cutting - excessive cutting pressure results in heat build up. Allow blade to do work. With hand held machines, use gentle reciprocating action and avoid cutting too deep in a single pass.

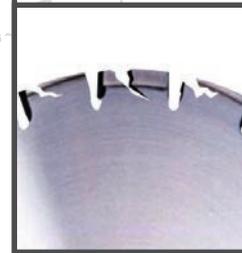
## Uneven Segment Wear



- Worn shafts, damaged machine bearings, or blade incorrectly mounted.

- Insufficient water.
- Excessive cutting pressure, caused by too high in-feed, results in the blade core bending and flexing. Metal fatigue will eventually cause the core to crack.

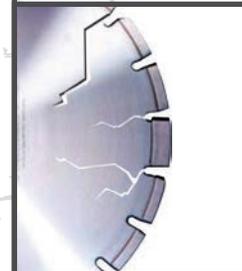
## Segment Cracks



- Use a blade with a softer bond system, as the blade specification may be too hard for the material being cut, causing hammering in the cut.

## Core Cracks

- Blade too hard for the material being cut.
- Excessive cutting pressure, caused by too high in-feed results in the blade core bending and flexing.



- Metal fatigue will eventually cause core to crack.
- Worn shafts, damaged machine bearings, or blade incorrectly mounted.

## Out of Round

- Blade shaft bearing may possibly be worn. Fit new bearing and ensure regular lubrication.
- Blade too hard for the material being cut, this will result in the blade hammering and wearing out of round.



- Choose a blade with a softer bond system.
- Machine spindle may have groove scored in it as result of previous blade slipping on spindle.

If a product will not cut because the blade has glazed over then open the blade up by running it through abrasive materials. If a blade is wearing prematurely then use a blade with a harder bond.



**BREAKING**  
HYDRAULIC BREAKERS, HYDRAULIC POWER PACKS, HYDRAULIC BREAKER STEELS



## MAJOR 30/140

### HYDRAULIC POWER PACK

A PORTABLE AND EFFICIENT ON SITE POWER SOURCE, OFFERING EXCELLENT POWER TO WEIGHT RATIO. HYDRAULIC POWER PACKS ARE 3 TIMES MORE EFFICIENT THAN TYPICAL PNEUMATIC SYSTEMS AND COME WITH INTEGRATED POWER ON-DEMAND (POD) SYSTEM.



### FEATURES & BENEFITS

- A Complete with integrated POD (Power On Demand) system which helps reduce carbon emissions and results in 50% less fuel usage.
- Small enough to be transported in estate cars and small vans.
- Low hydraulic oil cut out protects tools & system pump.
- Rigid and durable chassis and steel protection frame to prevent component damage.
- Routine maintenance couldn't be easier as access is gained by a quick and simple removal of the main protection frame.
- Hose storage position and lifting-eye integrated into protection frame with fitted wheels to aid on-site transportation.
- Supplied with removeable braided Siamese hose set with high quality non-drip face couplings (pre-filled with Hyd. Oil).
- Removeable hose sets aid transportation and storage and can be changed quickly if damaged.
- Customer colour options available.
- Can be used with Altrad Belle Hydraulic Breakers, Roller Strikers and Hydraulic Submersible Pumps with a 30-litre flow rate.

NO.1 FOR BREAKING



Hose Storage Position & Lifting Eye Built Into Main Frame



Integrated Power On Demand System

Model	Part Number	Engine Power (Hp) - (kW)	Hose Length (m)	Pressure (bar)	Flow (l/min)	Oil Tank Capacity (Ltr)	Fuel Tank Capacity (Ltr)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Major 30-140 Honda Petrol	HPP21	13 - 9.6	6.75	140	30	6.2	6.5	555	620	740	72

# BULLDOG

## HYDRAULIC POWER PACK

AN EFFICIENT, PORTABLE ON SITE POWER SOURCE THAT IS 12% MORE COMPACT BUT WITH THE SAME MARKET LEADING PERFORMANCE.



NO.1 FOR BREAKING

### FEATURES & BENEFITS

- 12% more compact but with the same market leading performance.
- Small enough to be transported in estate cars and small vans.
- Tilt-back protection frame allows for simple routine maintenance.
- Clip & Go' removeable, optional Tool Tray available to help store your Hydraulic Breaker and Breaker Steel.
- More powerful engine than standard market equivalent.
- Fully protected oil filler complete with retaining chain.
- Low engine & hydraulic oil cut out protects tools & system pump.
- Complete with integrated POD (Power On Demand) system which helps reduce carbon emissions & results in 50% less fuel usage.
- Recoil protection system.
- Rigid & durable steel chassis and protection frame to prevent component damage.
- Hose storage position and lifting-eye integrated into protection frame with fitted wheels to aid on-site transportation.
- Supplied with removeable braided Siamese hose set with high quality non-drip face couplings (pre-filled with Hydraulic Oil).
- Removeable hose sets aid transportation and storage and can be changed quickly if damaged.
- Can be used with Altrad Belle BHB Hydraulic Breakers and Hydraulic Submersible Pumps.
- Customer colour options available.



Portable & Compact for Ease of Transportation



Folding, Auto-Lock Transport Handle



Lifting Eye and Fully Enclosed Filler Cap

# BULLDOG

## HYDRAULIC POWER PACK

COMES WITH INTEGRATED POWER ON-DEMAND (POD) SYSTEM AND MORE POWERFUL ENGINE THAN THE STANDARD MARKET EQUIVALENT.



NO.1 FOR BREAKING



'Clip & Go' Removeable, Optional Tool Tray



Tilt-Back Protection Frame For Easy Service & Maintenance Access

Model	Part Number	Engine Power (Hp) - (kW)	Hose Length (m)	Pressure (bar)	Flow (l/min)	Oil Tank Capacity (Ltr)	Fuel Tank Capacity (Ltr)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)
Bulldog Honda Petrol	HPX01S	9.0 / 6.6	6.75	140	20	5.6	6.0	515	620	705	59.5
Bulldog Honda Petrol c/w Tool Tray	HPX01TS	9.0 / 6.6	6.75	140	20	5.6	6.0	683	620	705	*59.5

\*Weight doesn't include the Tool Tray. Tool Tray weight = 8.0kg

### OPTIONS

Description	Part Number	Colour	Weight (Kg)
Breaker Tool Tray (Bulldog)	OPH/13/D10	Grey / Orange	7.9

## BHB RANGE

### HYDRAULIC BREAKERS

STURDY AND RELIABLE BREAKERS DESIGNED FOR WORKING TOGETHER WITH ALTRAD BELLE HYDRAULIC POWER PACKS. THE HANDHELD BREAKERS ARE AVAILABLE IN MANY DIFFERENT SIZES WITH VARYING IMPACT ENERGIES AND COMMONLY USED TOOL SIZES.



## FEATURES & BENEFITS

- Improved, lock-on, ergonomic handgrips.
- **BHB 12** - A lightweight 20 litre flow Breaker for running off a 20-litre/min flow Power Pack.
- **BHB 23** - A medium weight 20 litre flow Breaker for running off a 20-litre/min flow Power Pack.
- **BHB 25** - A heavyweight 20 litre flow Breaker or running off a 20-litre/min flow Power Pack. Designed for optimum breaking performance.
- **BHB 25X & \*BHB 27X** - Heavyweight, low HAV Breakers for running off a 20-litre or 30-litre/min flow Power Pack. With 2 x Breakout Force of a standard Breaker.
- **BHB 27** - A heavyweight Breaker that can be for running off a 20-litre or 30-litre/min flow Power Pack depending on flow rate.



Ideal for Patching work



Improved Ergonomic Handles

Model	Part Number	Max Pressure (bar)	Flow (l/min)	Blows Per (min)	Vibration (m/sec <sup>2</sup> )	Breaking Force (joules)	Steel Size (mm)	Weight (kg)
BHB25X Road Breaker	BHB25XS	160	20	1600	**6.5	55	32 x 160	25
BHB27X Road Breaker	BHB27XS	160	*20 / 30	1300	8.2	85	32 x 160	30
BHB12 Road Breaker	BHB12S	160	20	2400	14.13	25	22 x 82	14
BHB23 Road Breaker	BHB23S	160	20	1600	11.97	65	25 x 108	23
BHB25 Road Breaker	BHB25S	160	20	1300	11.1	85	32 x 160	25
BHB27 Road Breaker	BHB27S	160	*20 / 30	1300	11.8	85	32 x 160	27

\* NOTE:- Breaker is supplied with alternative return pipe restrictors. Please ensure correct restrictor is fitted for 20 (3.4mm Restrictor) or 30 (Open Restrictor) Litre supply. (Restrictor size is marked on the restrictor body) NO MARKINGS = OPEN RESTRICTOR

\*\*OPERC Independent testing Vibration levels tested to BS2892-10

## BHB BREAKER STEELS



## NO.1 FOR BREAKING

Breaker Steels: 32 x 160mm (1 1/4" x 6 1/2") - To fit BHB25 BHB25X BHB27 Breakers

Description	Part Number	Type	Collar to Tip Length (mm)	Collar to Tip Length (inch)	Blade W x H (mm)	Blade W x H (inch)
Moil Point 32mm	912083	1	380	15	-	-
Large Moil Point 32mm	912084	1	455	18	-	-
Chisel 32mm	912293	2	380	15	-	-
Large Chisel 32mm	912294	2	455	18	-	-
Broad Chisel 32mm	912450	4	380	15	75 x 50	3 x 2
Large Broad Chisel 32mm	912451	4	455	18	75 x 50	3 x 2
Asphalt Cutter 32mm	912472	5	380	15	125 x 50	5 x 2
Large Asphalt Cutter 32mm	912454	5	330	13	125 x 150	5 x 6
Tarmac Cutter 32mm	912555	6	280	11	115 x 125	4 x 5
Digging Chisel 32mm	912456	7	355	14	75 x 230	3 x 9
Digging Spade 32mm	912656	8	355	14	125 x 20	5 x 8
Clay Spade 32mm	912668	9	380	15	140 x 230	5 x 9
Stem 32mm	912903	10	230	9	-	-
Rammer Pad 32mm	912906	11	-	-	180 dia	7 dia

Breaker Steels: 25 x 108mm (1" x 4 1/2") - To fit BHB23 Breaker

Description	Part Number	Type	Collar to Tip Length (mm)	Collar to Tip Length (inch)	Blade W x H (mm)	Blade W x H (inch)
Moil Point 25mm	910043	1	380	15	-	-
Large Moil Point 25mm	910044	1	455	18	-	-
Chisel 25mm	910253	2	380	15	-	-
Large Chisel 25mm	910254	2	455	18	-	-
Broad Chisel 25mm	910430	4	380	15	75 x 50	3 x 2
Large Asphalt Cutter 25mm	910434	5	380	15	125 x 150	5 x 6
Tarmac Cutter 25mm	910435	6	305	12	115 x 125	4 x 5
Digging Chisel 25mm	910436	7	355	14	75 x 230	3 x 9
Digging Spade 25mm	910636	8	355	14	125 x 20	5 x 8
Clay Spade 25mm	910664	9	355	16	140 x 230	5 x 8
Stem 25mm	910911	10	200	8	-	-
Rammer Pad (25 & 22mm)	912905	11	-	-	125 dia	5 dia
Rail Clip Extractor	01248	-	370	14	55 x 100	2 x 4

Breaker Steels: 22 x 82mm (7/8" x 3 1/4") - To fit BHB12 Breaker

Description	Part Number	Type	Collar to Tip Length (mm)	Collar to Tip Length (inch)	Blade W x H (mm)	Blade W x H (inch)
Moil Point 22mm	910023	1	380	15	-	-
Large Moil Point 22mm	910024	1	455	18	-	-
Chisel 22mm	910233	2	380	15	-	-
Large Chisel 22mm	910234	2	455	18	-	-
Broad Chisel 22mm	910420	4	380	15	75 x 50	3 x 2
Large Broad Chisel 22mm	910421	4	455	18	75 x 50	3 x 2
Large Asphalt Cutter 22mm	910424	5	380	15	125 x 150	5 x 6
Digging Chisel 22mm	910426	7	355	14	75 x 230	3 x 9
Clay Spade 22mm	910662	9	405	16	125 x 200	5 x 8
Stem 22mm	910910	10	200	8	-	-
Rammer Pad (25 & 22mm)	912905	11	-	-	125 dia	5 dia



MOVING 4 x 4 POWERED MINIDUMPER, MINIDUMPER ACCESSORIES, 1-TONNE HI-TIP DUMPERS



HONDA

## BMD 300

### 4 X 4 MOTORISED MINIDUMPER

A HEAVY-DUTY MINIDUMPER, DESIGNED TO TRANSPORT CONSTRUCTION AND LANDSCAPING MATERIALS ACROSS RUGGED TERRAIN WITH EASE AND SAFETY. IT IS ENGINEERED TO BE TOUGH, RELIABLE AND VERSATILE TO MEET THE DEMANDS OF THE PROFESSIONAL USER AND RENTAL INDUSTRY.



NO.1 FOR MOVING

### FEATURES & BENEFITS

- 4x4 All Terrain Drive System provides excellent traction on all surfaces and excellent gradient climbing.
- Extra heavy-duty chassis and gearbox reinforcement to survive harsh site conditions and the rigours of the rental industry.
- Unique drive system enables ease of service and easy wheel changes to reduce down time.
- 4 forward travel speeds and 1 reverse for excellent control and high productivity.
- Large capacity tip up skip and 300kg payload for high productivity.
- At only 28" wide the MiniDumper will fit through a standard doorway.
- Faster and more flexible than a track-driven dumper.
- Excellent machine balance makes the MiniDumper easy and safe to manoeuvre even when fully loaded.
- Ideal for small spaces, its dimensions allow passage through doorways and in confined spaces.



Carrier wheel disengages for easy wheel changing



Designed to fit through a standard doorway

Model	Part Number	Engine Power (Hp) - (kW)	Machine Width (mm)	Machine Length (mm)	Machine length tipping (mm)	Machine Height (mm)	Machine Height tipping (mm)	Wheel base (mm)
BMD 300 MiniDumper - Honda GXV160 Petrol	BMD01	5.5 - 4.0	716	1588	1957	925	859	528
Max travel speed (fwd) (km/h)	Max travel speed (rev) (km/h)	Skip capacity level filled (ttr)	Skip capacity Heaped (ttr)	Max uphill Gradient (°)	Max downhill Gradient (°)	Max Payload (kg)	Machine weight (kg)	Noise level (dB(A))
6	2.6	113	134	20	20	300	155	101

# BMD 300 MINIDUMPER

## ACCESSORIES RANGE

THE RANGE OF ALTRAD BELLE MINIDUMPER ACCESSORIES INCREASE THE VERSATILITY OF THE MACHINE ENABLING IT TO CARRY AWKWARD OR OVERSIZED LOADS, OPERATE ON TURF, TIP INTO SKIPS OR TOW OTHER VEHICLES AND MACHINES.



NO.1 FOR MOVING

## FEATURES & BENEFITS

### Flatbed Attachment

- Ideal for awkward loads, e.g. bricks, logs, turf.
- Maximum payload of 300kg.

### Towing Hitch

- Ideal for moving trailers, caravans etc. around site.
- 1000kg Maximum towing weight on flat ground.

### Snow Plough

- Easily attached to the front of the skip.
- The blade can be raised for maneuvering and angled to remove the snow in the desired direction.

### Turf Tyres

- Ideal for landscaping projects & soft ground conditions.
- Wheel spacers and fittings supplied as standard.

### Skip loading Ramps

- Perfect for attaching to the side of a skip with adjustable legs for uneven ground.
- 600kg maximum payload.



Flatbed attachment ideal for carrying awkward items



Towing-eye attachment capable of pulling 1000kg ideal for moving trailers, caravans etc.



Snow Plough ideal for removing snow from pathways

# BMD 300 MINIDUMPER

## ACCESSORIES RANGE

THE RANGE OF ALTRAD BELLE MINIDUMPER ACCESSORIES INCREASE THE VERSATILITY OF THE MACHINE ENABLING IT TO CARRY AWKWARD OR OVERSIZED LOADS, OPERATE ON TURF, TIP INTO SKIPS OR TOW OTHER VEHICLES AND MACHINES.



NO.1 FOR MOVING



Skip loading ramps ideal for larger projects



Ideal partner for mini diggers, cement mixers etc.



Can easily be loaded into a van

Model	Part Number	Machine Width (mm)	Machine Width (mm)	Machine Length (mm)	Machine length tipping (mm)	Machine Height (mm)	Machine Height tipping (mm)	Engine Power (Hp) - (kW)
BMD 300 MiniDumper - Honda GXV160 Petrol c/w Wide Tyres*	BMD01T	987	987	1588	1957	925	859	5.5 - 4.0
Max travel speed (fwd) (km/h)	Max travel speed (rev) (km/h)	Skip capacity level filled (ltr)	Skip capacity Heaped (ltr)	Max uphill Gradient (°)	Max downhill Gradient (°)	Max Payload (kg)	Machine weight (kg)	Noise level (dB(A))
6	2.6	113	134	20	20	300	155	101

## OPTIONS

Description	Part Number	Description	Part Number
Flatbed attachment	OPD/01/DIO	Towing Hitch ball and eye option	OPD/06/DIO
Skip loading ramps (grey)	OPD/02/DIO	Wide Tyres (set of 4)	OPD/05/DIO
Towing Hitch ball option	OPD/04/DIO	Snow Plough option	OPD/10/DIO

\* NOTE:- Machine only comes with Wide Tyres

# DX 1000HT

## 1-TONNE, HI-TIP DUMPER

THE DX 1000HT IS THE NEW NO.1 BEST IN CLASS 1-TONNE HIGH-TIP DUMPER. DESIGNED TO BE OWNED BY A RENTAL COMPANY OR PROFESSIONAL OPERATOR.



NO.1 FOR MOVING

## FEATURES & BENEFITS

### Operator Comfort and Convenience

- Fuel level is visible while in the operator's seat, saving time & improving safety & down time.
- Increased leg room for improved operator comfort.
- USB phone charger point, allowing charging while the work is done.
- Leading brand, comfort seat compliant to latest standards EN ISO 7096 for this type of equipment. Reduces operator fatigue, improves operator experience.



### Strength

- Robust, easy-clean skip with fully returned edges preventing dirt ingress / concrete accumulation, reducing down time and cleaning costs.
- Strengthened chassis rails to increase durability.
- High quality, shot-blast and 2-layer powder coated paint finish for the most demanding site conditions. Maximising resale values.
- Bushed & greased steering pivot cylinder, preventing wear on the main components, cost efficient for the owners.
- Steel belly pan protector prevents damage to hydraulic circuit.
- Front enclosure / infill plate reduces stone / mud ingress meaning less down time & cleaning required.
- Steering Ram - Hose guard cover plate to prevent damage.
- Hi-quality leading brand all-terrain tyres fitted with valve protect guard, to reduce down time on site and increase productivity.



High-quality, all-terrain tyres with valve protect guard & wheel nut indicators



Robust, easy-clean 1000kg capacity skip fully returned edges to prevent dirt ingress



# DX 1000HT

## 1-TONNE, HI-TIP DUMPER

THE DX 1000HT SETS NEW STANDARDS FOR SAFETY, STRENGTH, OPERATOR COMFORT AND CONVENIENCE AND PRODUCTIVITY ON SITE. WITH A PROVEN, RELIABLE YANMAR 3TNV76, 3 CYLINDER, DIESEL ENGINE - PERFECT FOR THIS APPLICATION.



NO.1 FOR MOVING

## FEATURES & BENEFITS

### Productivity

- The Altrad full 4 wheel drive hydraulic system gives increased traction on poor terrain and excessive mud. Better gradeability, increased productivity and less servicing.
- Reliable, Yanmar 3TNV76 Diesel engine - perfect for this application.
- Market leading fuel tank capacity, reduces amount of fill-ups and down time.
- Unique fuel level indicator window together with a low fuel level warning light allows for easy inspection and assist in ensuring rental & machine productivity high.
- Low hydraulic fluid level warning light reducing system damage and down time.
- Extensive use of hose clamp retainers to prevent pip fretting and rubbing, reducing hose failures and maintenance costs.
- Central Hydraulic hoses enables increased protection, reducing the risk of down time.
- Fuel and Hydraulic tank drain points reducing tank flushing time in the event of contamination or servicing.
- Fuel - water separator reducing engine damage and down time.
- Under footplate - stone guards preventing stone/mud ingress, so less down time & cleaning required.

### Safety

- Tight turning circle allows better manoeuvrability on tight work sites, reducing shunting & increasing safety, productivity & efficiency.
- High viz access points & anti-slip foot-steps reduces slips, trips and falls when climbing on and off machine. Easily replaceable in case of an impact.
- Auto retracting seat belt prevents entanglement. Bright Orange for safety with increased visibility.
- Safe heavy duty, easy to deploy steering lock out bar, makes workshop and transport activities safer.
- "Check Point" visual wheel nut indicators make daily checks simpler to perform, reducing machine down time.
- Enclosed document box to retain machine safety documents reducing possibility of being damaged / misplaced.
- Lockable seat pan - gas strut c/w lock out reduces chance of head / trapping injuries.
- Anti-slip, hot-dipped galvanised floor plate for safety and long life.
- Hazard warning chevron's on rear of dumper for increased machine visibility on site to others.
- Priority / safety steering valve that gives priority to the steer function in the event of low hydraulic fluid pressure or flow, therefore maintain-highest levels of machine safety at all times.



# DX 1000HT

## 1-TONNE, HI-TIP DUMPER

THE DX 1000HT IS THE NEW NO.1. BEST IN CLASS 1-TONNE HIGH-TIP DUMPER. DESIGNED TO BE OWNED BY A RENTAL COMPANY OR PROFESSIONAL OPERATOR.



NO.1 FOR MOVING

### DX 1000 1-TONNE HI-TIP DUMPER

Part Number (c/w Amber Beacon) ..... DX10HYSA  
Part Number (c/w Amber & Green Beacon) ..... DX10HYSB

#### PERFORMANCE

Payload (kg) ..... 1000  
Unladen Weight (kg) ..... 1363  
Tipping Type ..... Front Tip - High  
Turning Circle of Skip (mm) ..... 2637  
Turning Circle of Tyres (mm) ..... 2524  
Steering Angle (°) ..... 39.7  
Body Oscillation Angle (°) ..... 15

#### CAPACITIES

Skip - Water (Ltr) ..... 280  
Skip - Struck (Ltr) ..... 400  
Skip - Heaped (Ltr) ..... 500  
Fuel Tank (Ltr) ..... 35  
Hydraulic Oil Tank (Ltr) ..... 18

#### ENGINE

Engine Model ..... Yanmar 3TNV76  
Type ..... Diesel  
No. of Cylinders ..... 3  
Gross Power (Hp/kW) ..... 21.4 / 15.9  
Displacement (cc) ..... 1116  
Max. Torque (Nm) ..... 66.4

#### HYDRAULIC SYSTEM

Pump Type ..... Gear Pump  
Flow Rate (l/min) ..... 30  
Operating Pressure (bar/PSI) ..... 140  
Steering System ..... Hydraulic

#### TRANSMISSION / DRIVE

Transmission Type ..... Hydrostatic Pump to 4 radial piston Hydraulic Motors  
Tyre Size ..... 255 / 75 - 15.3  
Drive ..... Hydrostatic  
Max. Travel Speed (Unladen) (kph) ..... 12  
Max. Gradient ..... 25% (4:1)

#### BRAKING SYSTEM

Working Brake ..... Hydrostatic Dynamic Breaking  
Parking Brake ..... Failsafe Automatic

#### ELECTRICAL SYSTEM

System Voltage (V) ..... 12  
Battery Capacity (Ah) ..... 44  
Alternator Output (A) ..... 40

#### ENVIRONMENTAL

Sound Pressure (LpAd) ..... 84  
Sound Power Level (LWA) ..... 101  
Noise Emission (to ISO 4871)

#### STANDARD EQUIPMENT

Folding ROPS Frame ✓  
Reversing Alarm ✓  
Flashing Orange Beacon ✓  
Hourmeter ✓  
Seat Belt (Hi-Viz Orange) ✓  
Adjustable Seat ✓  
Heavy Duty Articulation Lock ✓  
Wide Tyres ✓

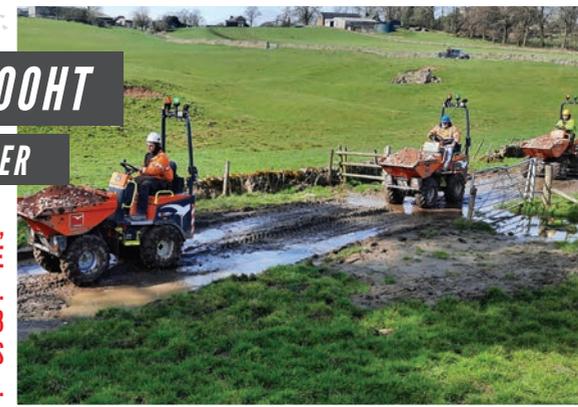


Good access to key features with self-locking gas strut and proven Yanmar 3TNV76 diesel engine.

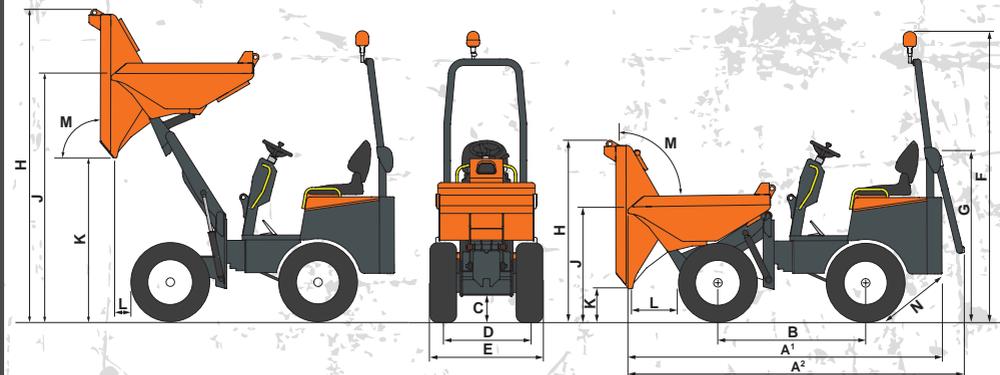
# DX 1000HT

## 1-TONNE, HI-TIP DUMPER

THE DX 1000HT SETS NEW STANDARDS FOR SAFETY, STRENGTH, OPERATOR COMFORT AND CONVENIENCE AND PRODUCTIVITY ON SITE. WITH A PROVEN, RELIABLE YANMAR 3TNV76, 3 CYLINDER, DIESEL ENGINE - PERFECT FOR THIS APPLICATION.



NO.1 FOR MOVING



	Standard Wheels	cw Wheel Spacers
A <sup>1</sup> - Overall Length	(mm) 3165	3165
A <sup>2</sup> - Overall Length (ROPS folded)	(mm) 3330	3330
B - Wheel base	(mm) 1440	1440
C - Minimum ground clearance	(mm) 250	250
D - Track width	(mm) 850	950
E - Width over tyres	(mm) 1100	1200
F - Height to top of ROPS (raised, with/without beacons)	(mm) 2545 / 2800	2545 / 2800
G - Height to top of ROPS (folded)	(mm) 1630	1630
H - Dump Height (untipped/tipped)	(mm) 1820 / 2960	1820 / 2960
J - Height to front lip of dumper body (untipped, lowered/raised)	(mm) 1110 / 2270	1110 / 2270
K - Height to front lip of dumper body (tipped, lowered/raised)	(mm) 400 / 1540	400 / 1540
L - Discharge distance front (lowered/raised)	(mm) 520 / 380	520 / 380
M - Dumper body tip angle	(°) 81	81
N - Departure angle	(°) 38	38

# DX 1000HT

## OPTIONAL EQUIPMENT

THE DX 1000HT IS THE NEW NO.1 BEST IN CLASS 1-TONNE HIGH-TIP DUMPER. DESIGNED TO BE OWNED BY A RENTAL COMPANY OR PROFESSIONAL OPERATOR.



NO.1 FOR MOVING

## FEATURES & BENEFITS

### Option Ready

- Green Beacon ready - fitted with seat belt sensor & main harness is ready to take Green Beacon option.
- Twin Beacon and work light approved ROPS structure.
- Fully loaded chassis harness - ready for options to be plugged in and used.
- Option ready console - ready for options to be plugged in and used.
- Customer colour options giving excellent brand awareness.

### Worklights

- Available as a kit of 2 worklights or 4 worklights.
- Super bright 54W work light with 9 x 6W LED's, producing 4500 Lumens.
- Lightweight Aluminium Housing with stainless steel adjustable bracket.
- Protected to IP69K.
- Simple to fit / remove.



2 x & 4 x Work Light Options Available

### Green Beacon

- Tough, leading brand quality 9W beacon with 40 LED's.
- Simple to fit / remove.
- Lockable under-canopy storage for both the Green & Orange beacons.
- Flexible mounting to reduce damage.



Lockable Under-Canopy Beacon Storage

### Tow Hitch

- Ideal for moving trailers, caravans etc. around site.
- 750kg maximum towing weight on flat ground (including the weight of the towed equipment).
- Combination hitch - 50mm Ball & Jaw/Pin.
- Adjustable height for correct towing position.
- Simple to fit / remove.



Tow Hitch Option

# DX 1000HT

## OPTIONAL EQUIPMENT

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NO.1 FOR MOVING

## FEATURES & BENEFITS

### UK Road Kit

- Kit includes headlights, brake lights, front & rear facing indicators, number plate mount (c/w number plate light and the following console switches/displays):-
  - Side Lights Switch
  - Road Lights Switch
  - Indicators Switch
  - Hazard Lights Switch
  - Display Indicator
- Accepts 279mm x 203mm standard, rear facing number plate
- 60/55W Headlights are enclosed in a durable steel mesh cage and mounted on a robust bumper bar for added protection.
- Red, White & Amber reflectors for increased visibility in poor light conditions.
- Simple to fit / remove.
- Designed to comply with BS ISO 12509:2004



Head Lights & Indicators From Uk Road Kit Option

### Wheel Spacers

- Increases the track width of the machine by 100mm giving added safety and stability in both static and dynamic conditions.
- Locking nuts for additional safety.
- Removeable for tight-access jobsites.
- Compatible with existing machines
- Corrosion resistant protective coating.
- Simple to fit / remove.



Wheel Spacer Option Adds 100mm To The Track Width Giving Added Safety & Stability

Description	Part Number	Description	Part Number
Work Lights x 2	OPD/20/DIO	UK Road Kit	OPD/25/DIO
Work Lights x 4	OPD/21/DIO	50mm Wheel Spacer Kit	OPD/28/DIO
Green Beacon	OPD/22/DIO	White Noise Back-Up Alarm	OPD/29/DIO
Tow Hitch	OPD/24/DIO	Site Anti-Tamper Kit	OPD/30/DIO



# GENERATORS

OPEN SET GENERATORS, 110V ONLY CTE GENERATORS



## GPX GENERATOR

### TEST UNIT

BUILT-TO-LAST, HEAVY DUTY, PORTABLE DUAL VOLTAGE TESTER IS AN ESSENTIAL PIECE OF HEALTH & SAFETY TESTING EQUIPMENT, DESIGNED TO OFFER EASY VOLTAGE, FREQUENCY AND AMP READINGS FROM A GENERATOR OUTPUT. IDEAL TO TEST GENERATOR PERFORMANCE ON AND OFF LOAD, MAKING IT PERFECT FOR ON-SITE DIAGNOSTICS.



NO.1 FOR GENERATORS

### FEATURES & BENEFITS

- A 110v & 230v testing ability.
- Voltage, Frequency (Hz) and Amp meters.
- Tough, replaceable, polycarbonate meter cover.
- Rental-proof, robust, steel electrical enclosure
- System breakers for 110v & 230v supplies.
- Input: 2m 110v & 230v leads complete with 16A BS4343 plugs.
- Output: 1 x 16A 110v & 1 x 16A 230v BS4343 sockets.
- Ergonomic carry handle.
- Compact and lightweight.
- Simple, fast, safe generator testing.



Polycarbonate Meter Cover



1 x 16A 110v Socket & 1 x 16A 230V Socket Output



Voltage, Frequency & Amp Meters

Model	Part Number	Nominal Voltage (V)	Voltage Range (V)	Phase	Frequency (Hz)	Max Load Rating (kW)	No.1 of Sockets		Cable Length (m)	Dimensions		Weight (kg)
							110v 16a	230v 16a		W x H x L (mm)		
GPX Test Unit	GTB01S	110 / 230	0 - 300	1	45 - 65	4.5	1	1	2	220 x 253 x 281	4.2	

# GPX RANGE

## OPEN SET GENERATORS

THE GPX RANGE OF PETROL, OPEN SET GENERATORS ARE BUILT TO PROVIDE RELIABLE POWER IN THE HARSHTEST CONDITIONS. ENGINES AND ALTERNATORS ARE PROTECTED FROM PHYSICAL DAMAGE AND THE ELECTRICS HAVE FULL OVERLOAD PROTECTION. IDEAL FOR RENTAL AND HIRE APPLICATIONS.



NO.1 FOR GENERATORS

## FEATURES & BENEFITS

- Robust large diameter frame with built-in Engine / Alternator.
- Protection belly plate to aid use on soft ground (N/A to Wheeled version).
- Professional Honda engine with recoil start.
- Low engine oil cut-off.
- High quality, heavy-duty NSM Alternator.
- Patent Pending' stackable frame with single point lifting to reduce environmental impact and minimize manual handling risk. Complete with securing pin for added safety (N/A to Wheeled version).
- Engine / Alternator side impact protection.
- Durable screw-in sockets.
- Metal covered fuse box.
- Over-sized 4-point Anti-Vibration mounts.
- Rental-proof, robust, steel electrical enclosure.
- Selectable 110v or 230v (N/A to CTE machines)
- System breakers for 110v & 230v supplies.
- Specifically designed for hire and rental markets.
- Wheeled version available ready for safe and easy transportation (GPX 5000 only).
- Accessible service points.
- Customer colour options available.

### Additional Features for the 110v-only CTE range

- Single voltage 110v-only models suitable for 110v site conditions.
- 110v (55v - 0 - 55v) CTE.
- Suitable for Tin 12 fusion welding.
- Dual pole system breakers with protective cover to increase safety and prolong life.
- Thermal socket protection (on larger capacity models).



'Patent Pending' Stackable engine protection frame

# GPX RANGE

## OPEN SET GENERATORS

110V-ONLY CTE OPTION, SUITABLE FOR TIN 12 APPLICATIONS IS ALSO AVAILABLE.



NO.1 FOR GENERATORS



Folding, lockable transport handle on GPX 5000 with Wheel Kit



Easily removable 4-bolt frame for service access on GPX 5000

Model	Part Number	Engine Power @ 3000rpm (Hp) - (kW)	Rating @ 0.8 p/f (kVA)	PRP Rating (kW)	COP Rating (Continuous) (kW)	No.1 of Sockets			Fuel Tank (Ltrs)	Frequency (Hz)	Dimensions Width x Height x Length (mm)	Weight (kg)
						110v 16a	230v 16a	110v 32a				
GPX 2700 - Honda GX200 Petrol	G270IS	4.3 - 3.3	2.7	2.2	2.0	1	1	-	3.1	50	432 x 515 x 618	46
GPX 3400 - Honda GX200 Petrol	G340IS	4.3 - 3.3	3.4	2.7	2.5	1	1	1	3.1	50	432 x 515 x 618	47
GPX 5000 - Honda GX270 Petrol	G500IS	6.2 - 4.6	5.0	4.0	3.6	2	1	1	5.6	50	512 x 595 x 728	64
GPX 5000 - Honda GX270 Petrol c/w Wheel Kit	G5001WS	6.2 - 4.6	5.0	4.0	3.6	2	1	1	5.6	50	778 x 552 x 661	79
GPX 2700 CTE - Honda GX200 Petrol	G270ICS	4.3 - 3.3	2.7	2.2	2.0	2	-	-	3.1	50	432 x 515 x 618	46
GPX 3400 CTE - Honda GX200 Petrol	G340ICS	4.3 - 3.3	3.4	2.7	2.5	2	-	1	3.1	50	432 x 515 x 618	47
GPX 5000 CTE - Honda GX270 Petrol	G500ICS	6.2 - 4.6	5.0	4.0	3.6	2	-	1	5.6	50	512 x 595 x 728	64
GPX 5000 CTE - Honda GX270 Petrol c/w Wheel Kit	G5001CWS	6.2 - 4.6	5.0	4.0	3.6	2	-	1	5.6	50	778 x 552 x 661	79

# GPX GENERATOR

## USAGE CHART

THE BELOW CHART IS A GUIDE TO WHAT ALTRAD BELLE PRODUCTS CAN BE POWERED BY EACH OF THE GENERATORS IN THE ALTRAD BELLE 'GPX' RANGE.

FOR MORE INFORMATION PLEASE CONTACT ALTRAD BELLE ON 01298 84606



NO.1 FOR GENERATORS

		GPX 2700 Generator	GPX 3400 Generator	GPX 5000 Generator
	Maximum KVA (@ 0.8 P/F)	2.7	3.4	5
0.8 Power Factor	Continuous KVA Rating	2.2	2.7	4
*10% Buffer Factor	Maximum Watts	2200	2700	4000
**Brush Type Motor	Maximum KW	2.2	2.7	4.0

Application	Product	Watts	*Start-up Required	KW	GPX 2700 Generator	GPX 3400 Generator	GPX 5000 Generator
Concreting	Promix 1200 - 110 & 230v **	1200	1320	1.3	Yes	Yes	Yes
Concreting	Promix 1600 - 110 & 230v **	1600	1760	1.8	Yes	Yes	Yes
Concreting	Tub Mix 50 - 110 & 230v	1200	3960	4.0	No	No	Yes
Concreting	Master Mix - 110 230v	450	1485	1.5	Yes	Yes	Yes
Concreting	Mini Mix 130 - 230v	450	1485	1.5	Yes	Yes	Yes
Concreting	Mini Mix 140 - 230v	450	1485	1.5	Yes	Yes	Yes
Concreting	Mini Mixer 150 - 230v	550	1815	1.8	Yes	Yes	Yes
Concreting	Mini Mixer 150 - 110v	550	1815	1.8	Yes	Yes	Yes
Concreting	Altrad Atika Compact 100 - 110v	2000	6600	6.6	No	No	No
Concreting	Maxi 140 - 110 & 230v	550	1815	1.8	Yes	Yes	Yes
Concreting	Premier XT - 110 & 230v	1500	4950	5.0	No	No	No
Concreting	AT350 Road Tow Mixer - 230v	1500	4950	5.0	No	No	No
Compacting	PCEL 400E Electric Plate - 110v	600	1980	2.0	Yes	Yes	Yes
Compacting	PCEL 400E Electric Plate - 230v	550	1815	1.8	Yes	Yes	Yes
Compacting	PCLX 12/40E Electric Plate - 110v	1500	4950	5.0	No	No	No
Compacting	PCLX 12/40E Electric Plate - 230v	1500	4950	5.0	No	No	No
Compacting	PCLX 16/45E Electric Plate - 110v	2200	7260	7.3	No	No	No
Compacting	PCLX 16/50E Electric Plate - 110v	2200	7260	7.3	No	No	No
Concreting	Megavib+ - 110v	1600	2500	2.5	No	Yes	Yes
Concreting	Megavib+ - 230v	2000	2200	2.2	Yes	Yes	Yes
Concreting	Vibratex Poker - 110v	1500	1650	1.7	Yes	Yes	Yes
Concreting	Vibratex Poker - 230v	1500	1650	1.7	No	Yes	Yes

# = This product is no longer available to purchase.

HONDA

# GPX GENERATOR

## USAGE CHART

THE BELOW CHART IS A GUIDE TO WHAT ALTRAD BELLE PRODUCTS CAN BE POWERED BY EACH OF THE GENERATORS IN THE ALTRAD BELLE 'GPX' RANGE.

FOR MORE INFORMATION PLEASE CONTACT ALTRAD BELLE ON 01298 84606



NO.1 FOR GENERATORS

		GPX 2700 Generator	GPX 3400 Generator	GPX 5000 Generator
	Maximum KVA (@ 0.8 P/F)	2.7	3.4	5
0.8 Power Factor	Continuous KVA Rating	2.2	2.7	4
*10% Buffer Factor	Maximum Watts	2200	2700	4000
**Brush Type Motor	Maximum KW	2.2	2.7	4.0

Application	Product	Watts	*Start-up Required	KW	GPX 2700 Generator	GPX 3400 Generator	GPX 5000 Generator
Cutting	# Mintile 180 - 110v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Mintile 180 - 110v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Mintile 200 - 110v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Mintile 200 - 230v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Mintile 230 - 110v	1200	3960	4.0	No	No	No
Cutting	# Mintile 230 - 230v	1200	3960	4.0	No	No	No
Cutting	# Magik 180 - 110v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Magik 180 - 230v	550	1815	1.8	Yes	Yes	Yes
Cutting	# Maxi Tile 260 - 110v	650	2145	2.1	Yes	Yes	Yes
Cutting	# MaxiTile 260 - 230v	650	2145	2.1	Yes	Yes	Yes
Cutting	BC350 Brick Saw - 110v	2200	7260	7.3	No	No	No
Cutting	BC350 Brick Saw - 230v	2200	7260	7.3	No	No	No
Cutting	MS500 Bench Saw - 110v	2500	8250	8.3	No	No	No
Cutting	MS500 Bench Saw - 230v	2500	8250	8.3	No	No	No
Cutting	# Altrad Atika BTH 400 Saw - 230v	3000	9900	9.9	No	No	No
Cutting	# Altrad Atika BHT 315 Bench Saw - 230v	3000	9900	9.9	No	No	No
Cutting	# Altrad Atika PTK 250S Saw - 230v	1800	5840	5.9	No	No	No
Cutting	# Altrad Atika ST200 Tilesaw - 230v	800	2640	2.6	No	Yes	Yes
Cutting	# Altrad Atika BWS 400 Log Saw - 230v	1800	5840	5.9	No	No	No
Cutting	# Altrad Atika BWS 500 Log Saw - 230v	3000	9900	9.9	No	No	No
Cutting	# Altrad Atika ASP 4N Log Splitter - 230v	1500	4950	5.0	No	No	No
Cutting	# Altrad Atika ASP 6L Log Splitter - 230v	2800	9240	9.2	No	No	No

# = This product is no longer available to purchase.



# PRESSURE WASHERS

HIGH PRESSURE, COLD WATER PRESSURE WASHERS



## PWX RANGE

### HIGH-PRESSURE, COLD-WATER WASHERS

HEAVY-DUTY, ROBUST, PWX PROFESSIONAL RANGE OF COLD WATER, HIGH-PRESSURE, HIGH-FLOW PRESSURE WASHERS. DESIGNED SPECIFICALLY FOR DEMANDING RENTAL AND HIRE APPLICATIONS.



NO.1 FOR PRESSURE WASHERS

### FEATURES & BENEFITS

- Robust, compact full Engine & Pump
- Professional Honda petrol and Yanmar Diesel engine options with recoil start
- Detergent / chemical feed-line
- Single point lift to minimize manual handling risk.
- Folding and lockable transport handle.
- Puncture-proof integrated wheels.
- Accessible service points.
- Inlet-line strainer for added pump protection.
- Low engine oil cut-off.
- High quality, heavy-duty triple piston pump.
- Professional two-wire, 10m braided hose, complete with quick-screw adapters and swivel couplings.
- Thermal pump protection.
- Lance holder integrated into protection frame.
- Lance comes complete with safety trigger lock.
- Specifically designed for hire and rental markets.
- Customer colour options available.
- Optional hose reel available.

protection frame complete with hose storage facility as standard. complete with strainer filter.



Single Point Lift



Folding, lockable transport handle

# PWX RANGE

## HIGH-PRESSURE, COLD-WATER WASHERS

HEAVY-DUTY, ROBUST, PWX PROFESSIONAL RANGE OF COLD WATER, HIGH-PRESSURE, HIGH-FLOW PRESSURE WASHERS. DESIGNED SPECIFICALLY FOR DEMANDING RENTAL AND HIRE APPLICATIONS.



NO.1 FOR PRESSURE WASHERS



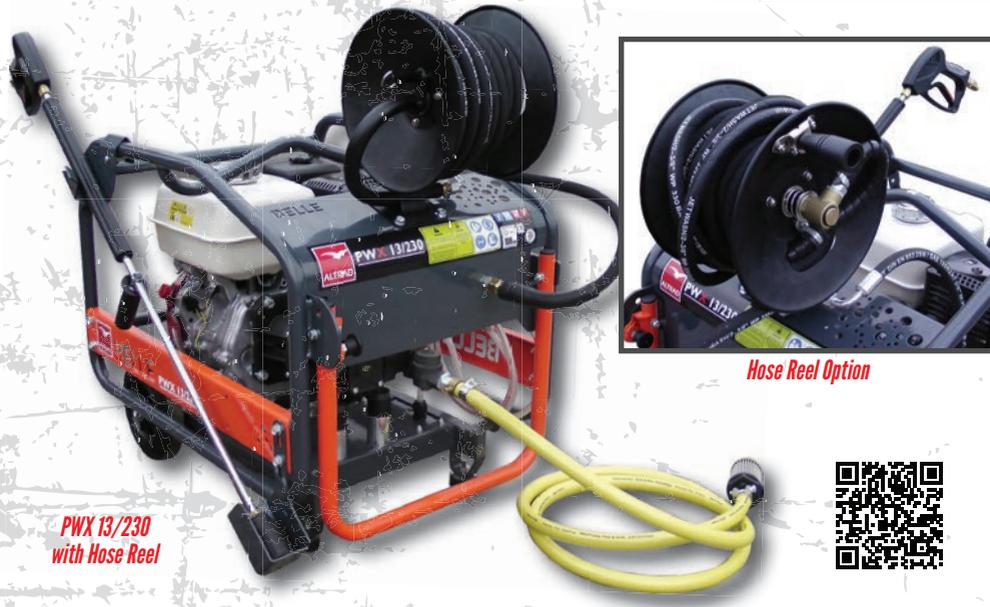
# PWX RANGE

## HIGH-PRESSURE, COLD-WATER WASHERS

AVAILABLE WITH HONDA PETROL OR YANMAR DIESEL ENGINE AND ALL MODELS HAVE AN OPTIONAL HOSE REEL FOR SIMPLE, HASSLE-FREE STORAGE OF HOSE.



NO.1 FOR PRESSURE WASHERS



PWX 13/230 with Hose Reel



Hose Reel Option



High quality triple-piston pump with thermal protection and inlet strainer



Durable engine protection frame with built-in hose storage position

Yanmar L100 Diesel engine option with recoil and electric start

Model	Part Number	Engine Power (Hp-kW)	Water Flow (lpm)	Max. Water Pressure (bar-psi)	Fuel Tank (Litrs)	Gearbox Driven Pump	Dimensions			Weight (kg)
							Width (mm)	Height (mm)	Length (mm)	
PWX 08/180 - Honda GX200 Petrol	P081801S	5.8 - 4.3	8	180-2600	3.1	✓	583	612	700	57
PWX 13/230 - Honda GX270 Petrol	P132301S	8.5 - 6.3	13	230-3300	5.3	✓	624	618	778	71
PWX 15/250 - Honda GX390 Petrol	P152501S	11.7 - 8.7	15	250-3600	6.1	✓	624	732	778	96
PWX 15/250 - Yanmar L100 Diesel	P152501DS	8.9 - 6.6	15	250-3600	5.4	✓	624	732	778	136
PWX 08/180 - Honda GX200 Petrol c/w Hose Reel	P081801RS	5.8 - 4.3	8	180-2600	3.1	✓	583	612	700	57
PWX 13/230 - Honda GX270 Petrol c/w Hose Reel	P132301RS	8.5 - 6.3	13	230-3300	5.3	✓	624	618	778	71
PWX 15/250 - Honda GX390 Petrol c/w Hose Reel	P152501RS	11.7 - 8.7	15	250-3600	6.1	✓	624	732	778	96
PWX 15/250 - Yanmar L100 Diesel c/w Hose Reel	P152501DRS	8.9 - 6.6	15	250-3600	5.4	✓	624	732	778	136

\*Weight includes Lance and Hoses.



# BWX 15/250

## BOWSER PRESSURE WASHER

HEAVY-DUTY TOWABLE PRESSURE WASHER COMES WITH A 1125 LITRE WATER TANK COUPLED TO A 8.9HP YANMAR ELECTRIC-START DIESEL ENGINE. WITH ROBUST HOT DIPPED GALVANISED STEEL CHASSIS AND IS EUROPEAN WHOLE VEHICLE TYPE APPROVED.



NO.1 FOR PRESSURE WASHERS

### FEATURES & BENEFITS

#### Bowser

- Robust T-Frame chassis fully Hot dipped galvanised, European whole Vehicle Type approved.
- 1125ltr / 250gal durable Polyethylene tank, with generous 550mm hinged lockable cover. Internal baffle and filler strainer as standard.
- 2 x drain taps to allow drainage of the Pressure Washer Pump or Tank. Allows for safe transportation and prevents frost damage.
- 2 x 175R13 8ply tyres c/w moulded mudguards.
- Knott-Avonride 200kg auto reverse braked coupling, fitted with either 40mm towing eye or 50mm ball option.
- Break-away cable.
- Lance holder integrated into the trailer complete with hose storage hooks.
- Side / front reflectors, lighting equipment complete with 13-pin plug & 7-pin adaptor.
- Telescopic jockey Wheel / Jack.
- Forklift points for safe on-site transportation.
- LED Lightboard option available complete with 13-pin plug and 7-pin adaptor.
- High capacity 25 litre Anti-freeze tank option available.
- Gravity-fed spray bar option for on-site dust suppression.
- Customer colour options available (Tank Lid).



Forklift points for safe on-site transportation

#### Pressure Washer

- Robust, compact full Engine & Pump protection frame with accessible service points.
- Professional Yanmar diesel engine with recoil & electric start as standard
- Accessible service points.
- Detergent / chemical feed-line complete with strainer filter.
- Inlet-line strainer for added pump protection.
- Anti-Theft Bolts securing the Pressure Washer to the chassis.
- Ignition warning system.
- High quality, heavy-duty triple piston pump.
- Professional 2-wire, 10m braided hoses, with quick-screw adaptors & swivel couplings.
- Thermal pump protection.
- Lance comes complete with safety trigger lock.
- Specifically designed for hire and rental markets.
- Customer colour options available (Side Plates & Battery Cover).



Integrated Lighting Equipment complete With 13Pin Plug and 7 Pin Adaptors

# BWX 15/250

## BOWSER PRESSURE WASHER

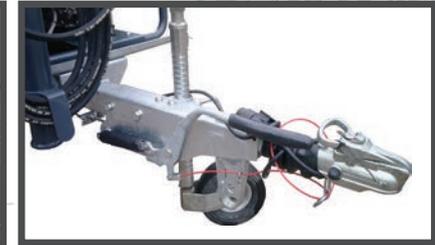
THE WASHERS DESIGN MAKES IT WELL SUITED FOR REMOTE AND HARDER TO REACH AREAS. THE HDPE WATER TANK ALSO INCLUDES AN INTERNAL Baffle TO PREVENT WATER SURGES WHILST THE MACHINE IS BEING TOWED. IDEAL FOR THE RENTAL MARKET!



NO.1 FOR PRESSURE WASHERS



Gravity-fed spray bar option for dust suppresion



50mm Ball Hitch Version



25 litre Anti-Freeze tank option



Anti-Theft Bolts Securing The Pressure Washer To The Chassis



Model	Part Number c/w 40mm Ring Eye	Part Number c/w 50mm Ball Hitch	Engine Power (Hp) - (kW)	Tyre Size (mm)	Tyre Pressure (PSI - bar)	Hose Length (m)	Water Flow (lpm)	Max. Water Pressure (PSI - bar)	Water Tank Capacity (Ltr)
	BWX15250IDS	BWX15250IDSBH							
BWX 15/250 - Yanmar L100	Fuel Tank Capacity (Ltr)	Width (mm)	Length (mm)	Overall Height (mm)	Tank Height (mm)	Towing Height (mm)	UnladenWeight (kg)	Max. Laden Weight (kg)	
	5.4	1550	3454	1680	1480	420	460	1500	

### OPTIONS

Description	Part Number	Description	Part Number
Pressure Washer Unit (Yanmar L100 Diesel E/S) c/w Lance & Securing Bolts	BWX15250IDU	Anti-Freeze Tank Kit	OPPW/05/DIO
Pressure Washer Unit Securing Bolts Kit	995/03700	10m Hose Reel Kit - Orange	OPPW/06S/DIO
Gravity-Fed Spray Bar Kit	OPPW/04/DIO		



## ALTRAD FORT COSMO RANGE

### HOME, GARDEN & EQUINE WHEELBARROWS

A LIGHTWEIGHT BARROW FOR HOME & GARDEN AND EQUINE USAGE. ABLE TO CARRY LEAVES, GRASS, SAND, HAY, STRAW, COMPOST, SOIL AND OTHER LIGHT MATERIALS. AVAILABLE IN A RANGE OF COLOURS.



NO.1 FOR WHEELBARROWS

### FEATURES & BENEFITS

- Simple to clean 90ltr tray.
- One-piece steel tube frame offers strength and durability. Tube is 30mm Diameter, 1.5mm thick.
- Ergonomic design with ideal weight distribution for balance and stability.
- 2 easy to change wheels locations to give even better balance.
- All rims fitted with a specially designed double sealed Roller Bearing.
- Bordeaux, Light Green, Orange, Dark Green, Dark Blue, Lavender, Pink & Lime Green trays available
- Can be used with 'Puncture-Proof' tyres (See Page 139).

The Cosmo is available in the following quantities:-

- Pallet 16 disassembled
- Mixed Colour Pallet 16 disassembled
- Pallet 47 disassembled



Model	Part Number	Tray Capacity (Ltr)	Weight (Kg)	Tray Type	Assembly	Tray Colour
Cosmo Blue	05135	90	10.2	Polypropylene	Disassembled	Blue
Cosmo Lavender	05137	90	10.2	Polypropylene	Disassembled	Lavender
Cosmo Pink	05136	90	10.2	Polypropylene	Disassembled	Pink
Cosmo Lime	05178	90	10.2	Polypropylene	Disassembled	Lime
Cosmo Chianti	05103	90	10.2	Polypropylene	Disassembled	Chianti
Cosmo Chiaro	05102	90	10.2	Polypropylene	Disassembled	Light Green
Cosmo Scuro	05108	90	10.2	Polypropylene	Disassembled	Dark Green
Mixed Colour Pallet	05230-16					Contains 4 x Blue, 4 x Lavender, 4 x Pink & 4 x Lime Wheelbarrows

# BELLE WARRIOR

## CONSTRUCTION WHEELBARROW

THIS WHEELBARROW IS A MUST FOR PROFESSIONAL BUILDERS AND IDEAL FOR USE WITH THE ALTRAD BELLE MINIMIX 150 CEMENT MIXER. SUITABLE FOR THE HEAVIEST WORK.



NO.1 FOR WHEELBARROWS

### FEATURES & BENEFITS

- Indestructible, non stick, easy to clean HDPE Tray.
- Low noise loading of material. Ideal for urban use.
- Extra wide profile 4-PLY tyre offers better use in sandy conditions.
- Extra strong wheel is fitted with a needle bearing for enhanced performance.
- Deep treaded tyre with inner tube alleviates possibility of punctures.
- Stronger and larger wheel plate is adjustable for optimum balance.
- Flat front tube for vertical storage.
- Additional wear strip for extra endurance.
- Heavy duty reinforced electro plated frame.
- Ergonomically designed.
- 'Never Leak Again' foam filled tyre available.
- Tray comes with a 1 YEAR WARRANTY!



#### Flex Pro Wheels Option

- 100% puncture-free.
- Shock absorption comparable to pneumatics.
- Load capacity comparable to pneumatics.
- Lightweight solid tyres – considerably lighter than conventional solid tyres.
- No downtime due to punctures.
- Long-lasting – up to four times the endurance of pneumatics.
- Maintenance free.
- Lower operational cost.

#### The Warrior is available in the following quantities:-

- Single assembled
- Pallet 4 assembled
- Pallet 8 assembled
- Pallet 10 disassembled
- Pallet 30 disassembled



Ideal for use with a Minimix 150 Cement Mixer

# BELLE WARRIOR

## CONSTRUCTION WHEELBARROW

THE 100LTR TRAY IS MADE OF HDPE PLASTIC AND THEREFORE VERY DURABLE. TRAY COMES WITH A 1 YEAR WARRANTY!



NO.1 FOR WHEELBARROWS



Flex Pro Puncture-Proof Tyre Model



Puncture-Proof Tyre



Model	Part Number	Tray Capacity (Ltr)	Weight (Kg)	Tray Type	Assembly	Tray Colour
Belle Warrior	02204	100	17	HDPE	Assembled	Orange
Belle Warrior c/w Flex Pro Tyre	02214WB	100	17	HDPE	Assembled	Orange

### OPTIONS

Description	Part Number
Puncture-Proof Flex Pro Tyre (Black Tyre & Orange Rim)	80108

# ALTRAD FORT PEX-160

## EQUESTRIAN WHEELBARROW

LIGHTWEIGHT FARMING BARROWS FOR USE IN LARGE GARDENS, NURSERIES, RIDING SCHOOLS OR OTHER AGRICULTURAL / EQUINE APPLICATIONS. CARRIES ANY TYPE OF MATERIAL INCLUDING MANURE, HAY ETC.



### FEATURES & BENEFITS

- Galvanised steel frame offers strength and durability.
- Huge 160ltr tray capacity.
- 2 wheels to give fantastic balance, whatever the load.
- Lightweight, ergonomic design allows great and stability.
- Specially developed, fitted with High-density Polyethylene (HDPE) tray available in Lavender and Dark Green.
- Simple to clean.

The PEX-160 is available in the following quantities:-

- Single Unit assembled
- Pallet 10 disassembled
- Pallet 32 disassembled



NO.1 FOR WHEELBARROWS

# ALTRAD FORT RANCHER TK-100

## HOME AND GARDEN WHEELBARROW

HEAVY-DUTY BARROW FOR HOME & GARDEN USAGE. GOOD FOR ANY TYPE OF CHORE IN THE GARDEN AND AROUND THE HOME. CAN CARRY HEAVY BUILDING MATERIALS, STONES, TILES ETC. AND IS VERY EASY AND LIGHT TO USE.



### FEATURES & BENEFITS

- One-piece steel tube frame offers strength and durability. Tube is 30mm Diameter, 1.5mm thick.
- Ergonomic design with ideal weight distribution for balance and stability.
- 2 easy to change wheel locations to give even better balance.
- Polypropylene 100ltr Dark Green Tray.
- Simple to clean.
- Can be used with Fort Flex 'Puncture-Proof' tyres. (See page 139)

The Rancher TK-100 is available in the following quantities:-

- Pallet 16 disassembled
- Pallet 47 disassembled



2 wheels locations for better balance.



Can be used with the Fort Flex 'Puncture-Proof' tyres.

Model	Part Number	Tray Capacity (Ltr)	Weight (Kg)	Tray Type	Assembly	Tray Colour
PEX-160 Lavender	20326	160	21.9	HDPE	Assembled	Lavender
PEX-160 Dark Green	20323	160	21.9	HDPE	Assembled	Dark Green

Model	Part Number	Tray Capacity (Ltr)	Weight (Kg)	Tray Type	Assembly	Tray Colour
Rancher TK-100	01117	100	11.9	Polypropylene	Assembled	Dark Green

## ALTRAD LIMEX RANGE

### HOME, GARDEN & CONSTRUCTION WHEELBARROWS

RANGE OF STRONG, DURABLE WHEELBARROWS FOR HOME & GARDEN AND CONSTRUCTION USAGE. GALVANISED TRAYS WITH VARYING CAPACITIES AND COLOURS TO SUIT ALL YOUR REQUIREMENTS.



### FEATURES & BENEFITS

#### Limex Range

- Bearings for the wheelbarrows are made from polypropylene.
- Wheelbarrow handles are made from elastomer.
- Screws and connection elements are galvanized and harmonized with DIN standards.
- Axle of the wheelbarrow: light pulled bar, rolled thread, delivered on wheel or in montage set.
- Can be used with Flex Lite 'Puncture-Proof' tyres.

#### Flex Lite Wheels

- 100% puncture-free.
- Shock absorption comparable to pneumatics.
- Load capacity comparable to pneumatics.
- Lightweight solid tyres – considerably lighter than conventional solid tyres.
- Efficiency – no downtime due to punctures.
- Long-lasting – up to four times the endurance of pneumatics.
- Maintenance free - lower operational cost.

#### The Limex Range is available in the following quantities:-

- Pallet 8 assembled.
- Pallet 30 disassembled.
- Pallet 60 disassembled.



Standard 100  
c/w Standard Wheel



Standard 85  
c/w Flex Lite Wheel

Model	Part Number	Tray Capacity (Ltr)	Weight (Kg)	Tray Type	Tray Thickness (mm)	Tray Colour	Frame Colour
Standard 85 c/w Standard Wheel	100001	85	11.6	Galvanised Steel	0.8	Silver	Dark Green
Standard 85 c/w Flex Lite Wheel	100122	85	11.6	Galvanised Steel	0.8	Silver	Dark Green
Standard 100 c/w Standard Wheel	100151	100	11.9	Galvanised Steel	0.8	Silver	Dark Green
Standard 100 c/w Flex Lite Wheel	100132	100	11.9	Galvanised Steel	0.8	Silver	Dark Green
Flex Lite Puncture Proof Wheel (Black-Grey)	80086	N/A	N/A	N/A	N/A	N/A	N/A

NO.1 FOR WHEELBARROWS

## WHEELBARROW

### ACCESSORIES RANGE

A SELECTION OF ACCESSORIES TO ACCOMPANY THE WHEELBARROWS WITHIN THE ALTRAD BELLE RANGE. INCLUDES A SELECTION OF PUNCTURE-PROOF TYRES AND INNER TUBES.



### FEATURES & BENEFITS

#### Altrad Fort I-Core - Puncture-Proof Tyre

- "Intelligent Core" system ensures High flexibility
- Improved shock-absorption compared to pneumatic solutions, which reduce unwanted bounce-effect
- Enclosed wheel and hub construction to prevent dirt ingress and contamination - Easy cleaning
- 100% recyclable

#### Altrad Fort Flex Lite - Puncture-Proof Tyre

- Ideal for DIY markets.
- Simple, light and affordable, with good durability
- Plain bearings
- Up to 150kg
- 100% compliant with REACH

#### Altrad Fort RT Flex Pro - Puncture-Proof Tyre

- Durable Professional / Semi professional Tyre
- Standard Rim of FORT with needle bearings
- Up to 300kg
- 100% compliant with REACH

#### Altrad Fort 2ply Tyre

- Universal 2ply Tyre - 400mm x 100mm

#### Altrad Fort Inner Tube

- Universal Inner Tube - 400mm x 100mm



Altrad Fort  
I-Core



Altrad Fort  
Flex Lite



Altrad Fort  
Flex Pro



Model	Part Number	Model	Part Number	Model	Part Number
FORT I-Core (Yellow-Black)	80094	FORT Flex Pro (Yellow-Black)	80092	FORT 2ply Tyre	13020
FORT I-Core (Black-Grey)	80095	FORT Flex Pro (Black-Orange)	80108	FORT Inner Tube	13010
FORT Flex Lite (Yellow-Black)	80091				



# SACK TRUCKS



## ALTRAD FORT SACK TRUCKS

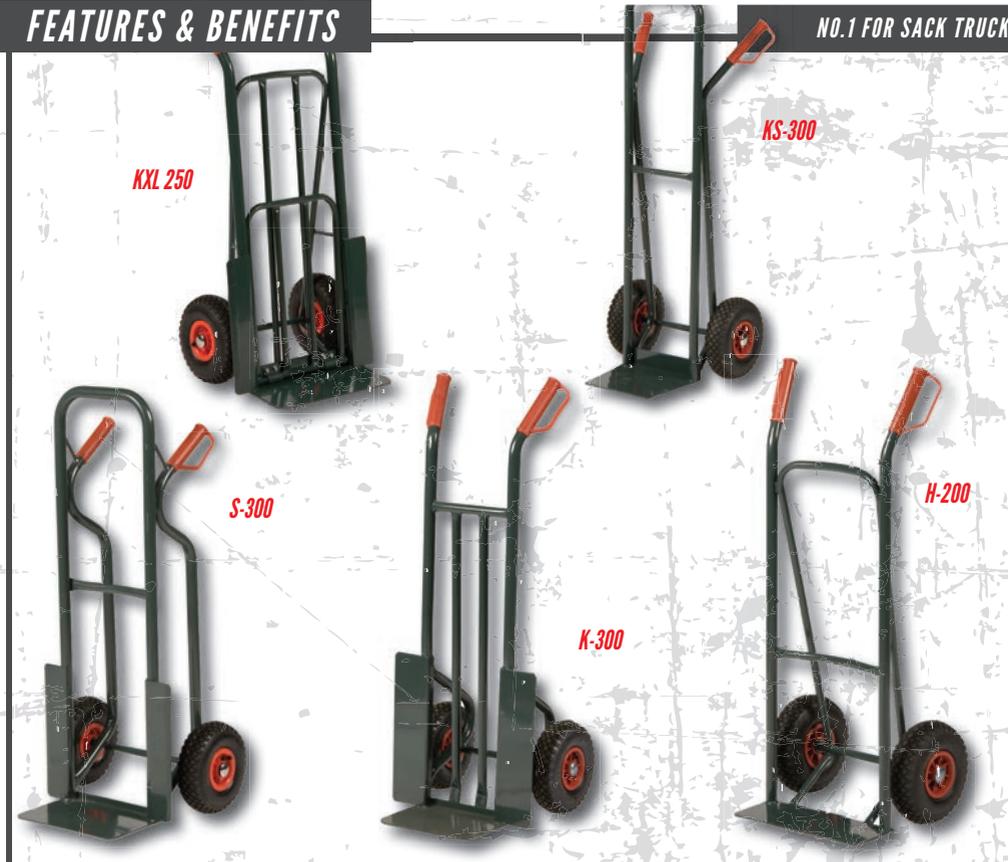
### ACCESSORIES RANGE

A SELECTION OF ACCESSORIES TO ACCOMPANY THE WHEELBARROWS WITHIN THE ALTRAD BELLE RANGE. INCLUDES A SELECTION OF PUNCTURE-PROOF TYRES AND INNER TUBES.



### FEATURES & BENEFITS

NO.1 FOR SACK TRUCKS



Model	Part Number	Load Capacity (kg)	Width (mm)	Height (mm)	Footplate (mm)	Gauge (mm)	Wheels	Weight (kg)
H-200	94000	200	520	1100	145 x 420	480	Pneumatic	8.2
S-300	94010	300	530	1100	180 x 425	-	Pneumatic	13.2
KS-300	94040	300	530	1210	240 x 260	470	Pneumatic	9.6
KXL 250	94020	250	520	1100	180 x 425	520	Pneumatic	15
K-300	94030	300	430	1290	210 x 300	-	Pneumatic	13.4





**BELLE**  
LIGHT  
CONSTRUCTION  
EQUIPMENT

**ALTRAD BELLE**

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