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Compaction

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Ian Dickie Soil and Asphalt Compaction

Compaction is a significant part of the building process. It increases load-bearing capacity, provides stability, reduces water seepage, swelling and contraction and reduces settling of soil.



Vibrating Plate Compactor

Designed to work in confined areas and close up to columns, wall and kerbs. Trenches, patchwork on roads, pool surrounds and foundation fills are easily and effectively compacted. [More »](#)



Reversible Plate Compactor

Speed and compaction depth are adjusted through hydraulic control of the eccentric element. This gives the plate smooth motion and makes it easy to operate.

[More »](#)



Rammers

Provides all the performance and durability that a contractor expects with the added benefit of a four stroke petrol engine. Tried and tested in the harshest work environments, these rammers are built to perform. [More »](#)



Rollers (walk behind)

Fully hydrostatic walk behind duplex rollers. Strong and robust design, compact in size. Combined with utmost reliability for the most difficult site conditions. [More »](#)



Rollers (ride-on)

The compact ride-on tandem vibratory asphalt roller is designed for pedestrian or bicycle paths, parking lots, driveways, patchwork and other asphalt applications. [More](#)



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Vibrating Plate Compactor

Forward combination plates for soil and asphalt

VC150



A low centre of gravity gives the VC-150 excellent stability and easy handling capabilities. Designed to work in confined areas the VC-150 compacts close up to columns, walls and kerbs. Trenches, patch work on roads, pool surrounds and foundation fills are easily and effectively compacted.

Vibration eliminates the friction between soil particles and facilitates settling at the same time the mass of the VC-150 assists in compressing the soil into its most compact form. The vibrations are created by an eccentric element mounted on the base of the machines, which are driven by air cooled petrol or diesel engines.

Robust and Reliable

The VC-150 are fitted with high capacity V-Belt pulleys which are deep grooved to ensure ultimate belt stability under the worst conditions. High tensile bolts are utilised to retain the vibrating element onto the base plate. Suspension springs are attached at both ends with rubber mounted high tensile bolts for simple maintenance. Fold back transport wheels are standard on the VC-150.

Specifications

Model	Engine Power (hp/kW) Diesel and Petrol options available	Plate size WxL (mm)	maximun operating Speed (m/min)	Total Mass (kg)	Compaction Force (k/N)

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VC-150

3.7/6

450x696

20

150

20

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Reversible Plate Compactor

RPC 45 Kn 300 kg class plate

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Medium size reversible plate compactors

Medium size heavy duty forward and reverse plate compactors for soil applications. Ideally used for compaction in backfill in pipe and cable trenches as well as road repair and maintenance work. Speed and compaction depth are adjusted through hydraulic servo control of the eccentric element. Design include strong wrap around frame that will stand severe shock and also protects vital parts of the machine.

Advantages

- Compact design
- Total plate width of 600mm, this model is pre equipped with 2 quick release extension plates to permit versatility in applications (Extensions 2 x 75 mm)
- Engine options of petrol or diesel. RPC45/60 as available with diesel electric start as an option
- Excellent ergonomoy has been achieved by reducing hard arm vibrations
- Belle uses the specially designed operator handle which is easy to operate even in difficult curves
- Foldable handle with locking mechanism to simplify transport and storage

Specifications

Model	Engine Power (hp/kW)	Plate size WxL mm)	Centrifugal Force (kN)	Frequency (hz)	Weight Class (m/min)	Weight (kg)
RPC45/60 Honda GX270	9/6.7	600x839	45	70	300	310
RPC45/60 DD HATZ 1B30	6.3/4.7	600x839	45	70	300	320



RPC 60 kN 500 kg class plate

Heavy Duty reversible plate compactors

Heavy reversible plate compactors with optimum compaction performance. A powerful diesel engine makes the RPC60/80 series an economical alternative to heavy vibratory rollers. The base plate is designed for fact compaction on stone and soil material on large surfaces. Excellent for building foundations and backfill against supporting walls..

Advantages

- Exceptional centrifugal force 60kN
- Compact and designed with protective side covers to ensure safe passage in deep trenches
- Ideal for large projects
- Total bottom plate width can be extended to 700 mm or 800 mm with quick extension plates (550 mm base width without extensions)
- Extension plates 2 x 75 included
- Extension plates 2 x 125 as available option
- Diesel Hatz engine 1D81Z
- RPC 60/80 is available with electric start (option)
- Reliable in operations with excellent compaction features
- High frequency vibrating element
- Easy to work and manoeuvre, developed to reduce operator fatigue
- Ergonomic operating handle
- User and service friendly, components are easy accessible, many standard components
- Centrally places lifting eye which folds into frame
- Foldable handle locking into frame for easy transport and storage

Specifications

Model	Engine Power (hp/kW)	Plate size WxL mm	Centrifugal Force (kN)	Frequency (hz)	Weight Class (m/min)	Weight (kg)
RPC60/80 Hatz 1D81Z	15/1	700x945	60	70	500	502



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Rammers

RT66

4 Stroke Rammers



All the performance and durability that a contractor expects with the added benefit of a four stroke petrol engine. Tried and tested in the harshest working environment these rammers are built to perform

Advantages

- **Reliable, easy start, no petrol/oil mixture needed**
- **Low emission and low noise 4 stroke engine**
- **3 fuel filters and large capacity air filter for extra reliability**
- **Direct gear drive with oil bath lubrication extends service life**
- **Extra heavy duty bellows**
- **Well balanced performance reduces operator effort**
- **Heavy duty protection frame and adjustable handles**

Specifications

Model	Power (hp/kW)	Frequency (vpm)	Travel (m min)	Force (kN)	Foot W	(mm) L	Dimensions W	(mm) H	L	Weight (kg)
RT66 Honda/Robin	3.8/2.8	550-620	13.6	16.2	280	332	420	1055	755	66/68

Rammer PDF

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P.O.BOX 103
Eppindust 7475
Tel: (021) 534-3431
FAX: (021) 534-3440

Johannesburg

P.O.BOX 1160
Kempton Park 1602
Tel: (011) 609-4130/7
FAX: (011) 452-3261

Port Elizabeth

P.O.BOX 3543
North End 6056
Tel: (041) 451-1577
FAX: (041) 451-1607

Durban

P.O.BOX 497
Pinetown 3600
Tel: (031) 709-1313
FAX: (031) 709-1316

Botswana

P.O.BOX 81135
Gaborone
Tel: (09267) 391-4491
FAX: (09267) 391-4968

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Rollers - Walk behind

Full hydrostatic walk behind duplex rollers.

Suitable for all purpose applications on asphalt and sub-base. Featuring compact design, the ultimate quality standards and components together with a Kubota diesel engine, this roller sets the quality standard in the industry through years of tough use.

BWR 650 - 750



Walk behind duplex rollers for soil and asphalt

Advantages

- Excellent wall clearance with no protruding parts
- BWR 650 equipped with – KUBOTA Diesel E75NB3 Electric starter. Extremely reliable and with lowest noise levels in the industry
- BWR 750 (non CE) – KUBOTA Diesel E75N. Manual crank start
- High compaction force 20kN
- Water cooled mono cylinder diesel engines, reliable in any site condition
- Hydraulic drive motors by Sauer Danfoss on each drum
- Large capacity water tank with removable anti corrosive water sprinkler system, permitting watering over the whole surface of the drum
- Drum diameter 402mm, drum width 650mm

Specification BWR 650

- Good kerb and overhand edge clearance
- Electric start
- Protective side covers in steel
- Protection anti vandal plate for radiator cap
- Parking brake
- Security push stop
- Central placed lifting eye
- User and service friendly by easy access to all major components.

Model	Power (hp/kW)	Frequency (Hz/vpm)	Travel (Km/hr)	Force (kN)	Dimensions (mm)			Weight (kg)
					W	H	L	

Roller PDF

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Centrifugal force	kN 13.2
Amplitude	mm 0.35
Engine type	Water cooled petrol
Horse power	kW 13.2 Rpm 1500
Speed ranges	km/h 0 - 75
Fuel tank capacity	L 30
Sprinkler system capacity	L 190
Braking	Hydrostatic service brake Disc-type parking brake
Steering	Articulated centre point
Dimensional Date	mm
Drum diameter	560
Drum width	900
Overall length	1910
Overall width	1015
Overall height	2440
Wheelbase	1300
Curb clearance	340
Turning radius	mm
Inside	1890
Outside	2800