



HYRAX



**Hydraulic
compactors**



English



Driving of sheet piles



Driving of posts



Compacting ground



Compacting coal



Dehaco Hyrax: Piling and compacting

Reliability, safety and extreme power are all key features of Dehaco's Hyrax hydraulic compactors. These compactors, that are produced by Dehaco in the Netherlands, are a result of more than 30 years of compacting experience. This experience has resulted in a compactor with a relatively low own weight and incredibly high impact force. Where posts and sheet piles can be quickly and effortlessly driven into the ground, even up to 10 meters under water. With a single turn of a switch the compactor can be optimised for compacting applications. *(From Hyrax 250)*

High quality components and manufacturing processes guarantees peak performance. The Intelligent Dual Power System (IDP System®) from Dehaco allows the rotation direction of the motors to be simply adjusted, increasing the efficiency of the compactor for all applications. The safety belt system ensures that the Hyrax compactors comply with the strictest safety regulations.

There is a Hyrax hydraulic compactor perfectly suited for every carrier. (The addition of a quick hitch system makes the Hyrax and carrier even more efficient.) Automatic pressure relief valves ensure a safe connection to the hydraulic circuit.

The smallest models, the Hyrax 125 and 175 have a single eccentric weight. The larger Hyrax models have twin eccentrics, powered by its own hydraulic motor. The exclusion of a geared transmission simplifies inspections and maintenance.

A comprehensive list of technical specifications and an explanation of the features of the compactor can be found in this brochure. The data included in the tables will assist in selecting the perfect Hyrax for your carrier and operations. Dehaco's experts are always at hand to assist in this selection, also for producing tailor-made solutions to suit your needs.

Features

- **Safe to use due to the incorporated safety belt.**
- **Suitable for compacting and post or sheet piling applications.**
- **High performance and impact energy.**
- **Very large amplitude.**
- **Simple to maintain.**
- **Designed and built in the Netherlands.**

Options and accessories

- To easily manoeuvre the compactor it is possible to combine it with mechanical or hydraulic rotation.
- Accessories can be fitted underneath the compactor, piling sleeves are available in various diameters.
- A hydraulic sheet pile clamp with 350kN of clamping force can be attached to make the Hyrax suitable for sheet piling applications.

Safety Belt System

Rubber shock absorbers mounted onto the top bracket neutralise the vibrations being passed onto the carrier. This prevents overloading. In the event of the shock absorbers failing due to wear, Dehaco has designed the safety belt system. This is an attempt to prevent accidents from occurring and making the work place safer. The safety belt ensures that the eccentric housing and tamper plate cannot fall from the top bracket. This system ensures that the Hyrax compactors comply with the strictest safety regulations. Should you want to ensure the reliability and safety of your compactor, it is possible to let Dehaco carry out routine inspections and maintenance. Our own 24/7 service department can perform maintenance and repairs in the field and in our own workshop.



Safety Belt System

Hyrax 125 - 175

The smallest compactors in the Hyrax series feature a single eccentric weight driven by a hydraulic motor. The hydraulic circuit is protected by the specially designed 'Intelligent single power system'.

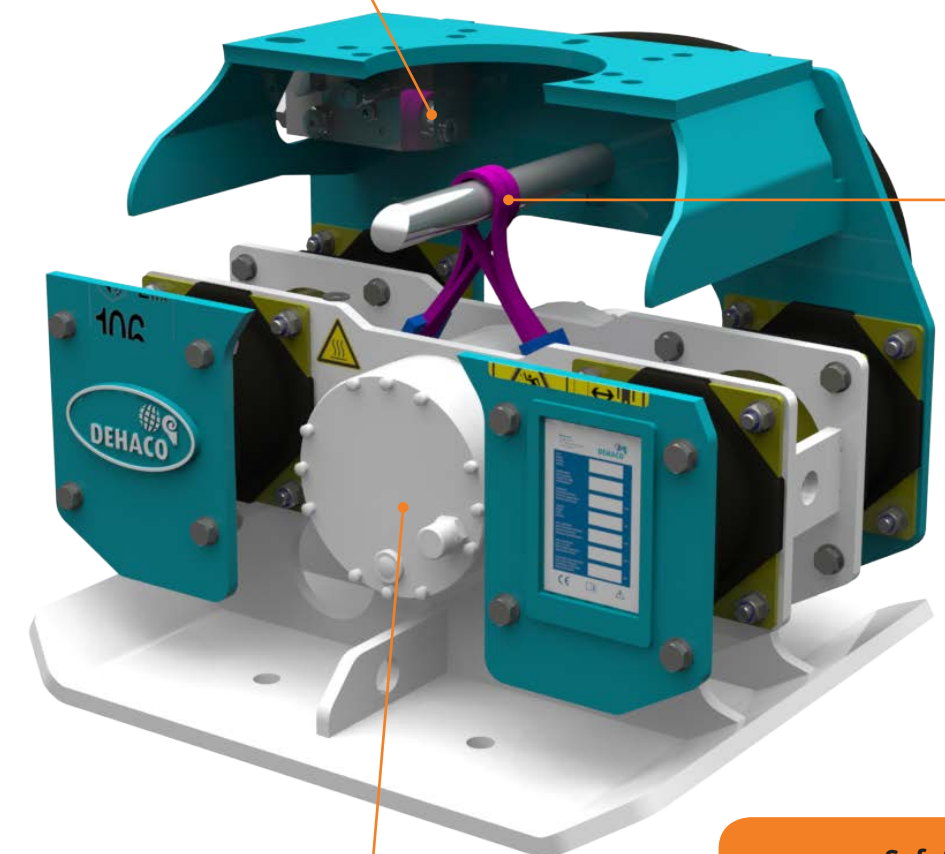
ISP System®



The ISP system ensures the safe and efficient working of the hydraulic compactor.

- Features an over-pressure protection device (bar)
- Features an oil flow control device (l/min)
- Features an hydraulic ramp function to protect the motor
- Features hose connection protection for the oil supply and return hoses

Intelligent Single Power System® (ISP-System®)



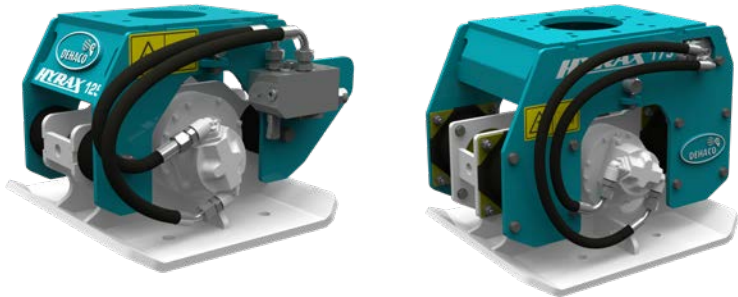
Safety Belt System

A hydraulically driven eccentric



Hyrax 125 - 175

Specifications



		HYRAX 125	HYRAX 175	
Technical specifications	Carrier weight class ⁽¹⁾	t	1,2 - 2,5	2 - 5
	Operational weight ⁽²⁾	kg	133	212
	Standard weight ⁽³⁾	kg	115	183
	Height	mm	364	503
	Tamper plate (L x W)	mm	480 x 340	520 x 455
	Oil flow ⁽⁴⁾	l/min	25	35
	Operating pressure	bar	140 - 180	140 - 180
	Setting pressure	bar	210	210
	Frequency	RPM	3000	3000
	Impact energy	kN	11	23
Characteristics	Safety Belt system		●	●
	ISP-System®		●	●
	IDP-System®		-	-
	Mechanical rotation		-	○
	Hydraulic rotation		-	○
	Hydraulic clamp		-	-
Article number		1810.0015	1810.0016	

(1) Weights are only applicable to standard carriers. All deviations must be agreed upon prior to the installation by Dehaco and/or the manufacturer of the carrier.

(2) Compactor weight including a standard top bracket and hose set.

(3) Standard compactor weight without top bracket, hoses or rotation.

(4) Depending on the technical features of the excavator.

● Standard

○ Option

- Not available



Options



Model	Type	Article number
Mechanical rotation Hyrax hydraulic compactors		
HYRAX 175	Mechanical rotation type DMR40 for Hyrax 175/250/400	1825.0182
Hydraulic rotation Hyrax hydraulic compactors		
HYRAX 175	Hydraulic rotation type DHR65 for Hyrax 175 complete with connection kit	1825.0202





Hyrax 250 - 950

IDP System®

The Intelligent Dual Power System is specially designed to ensure the safe and efficient working of the hydraulic compactor:

- Features an over-pressure protection device (bar)
- Features an oil flow control device (l/min)
- Features an hydraulic ramp function to protect the motor
- Features hose connection protection for the oil supply and return hoses



Dual Power

‘Dual Power’ is the name given to the two adjustable positions of the IDP system. With a single turn of the switch the rotation direction of the hydraulic motors can be changed.

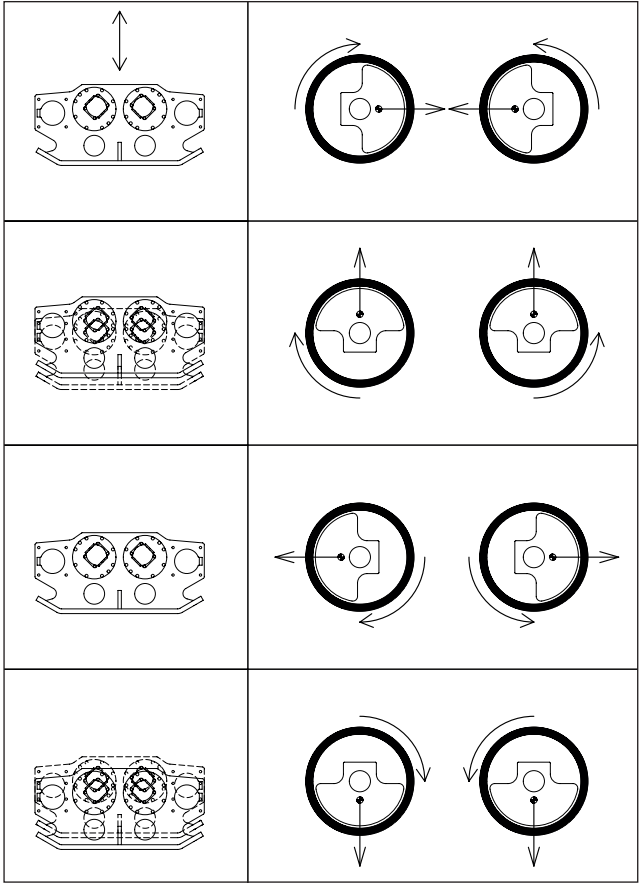
Pile driving

When in the ‘pile driving’ position one motor rotates clockwise and the other anti-clockwise. This produces a linear vibration, perfect for driving in posts and sheet piles.

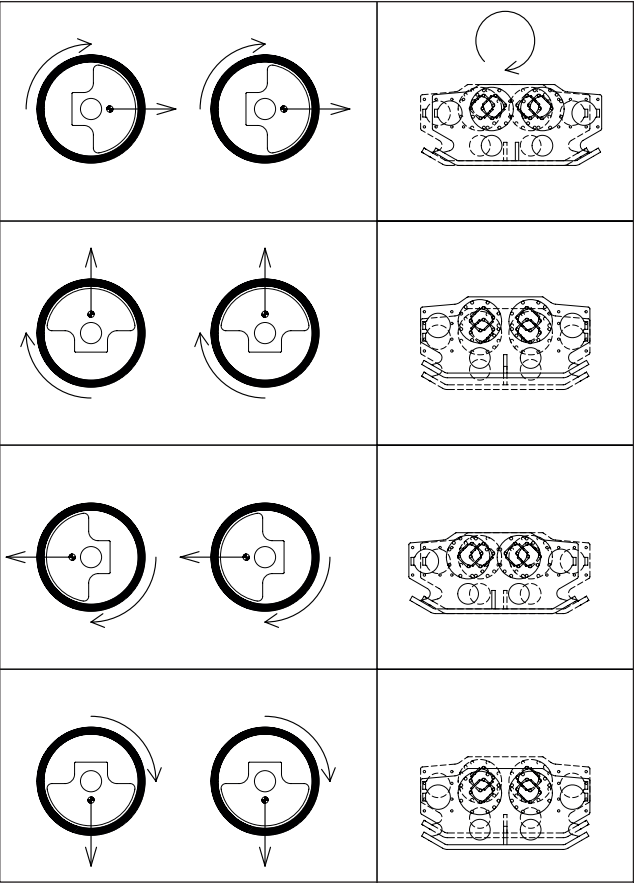
Compacting

When in the ‘compacting’ position both motors rotate in the same direction. This produces an oscillating vibration, perfect for compacting applications.

Linear driving of posts and sheet piles



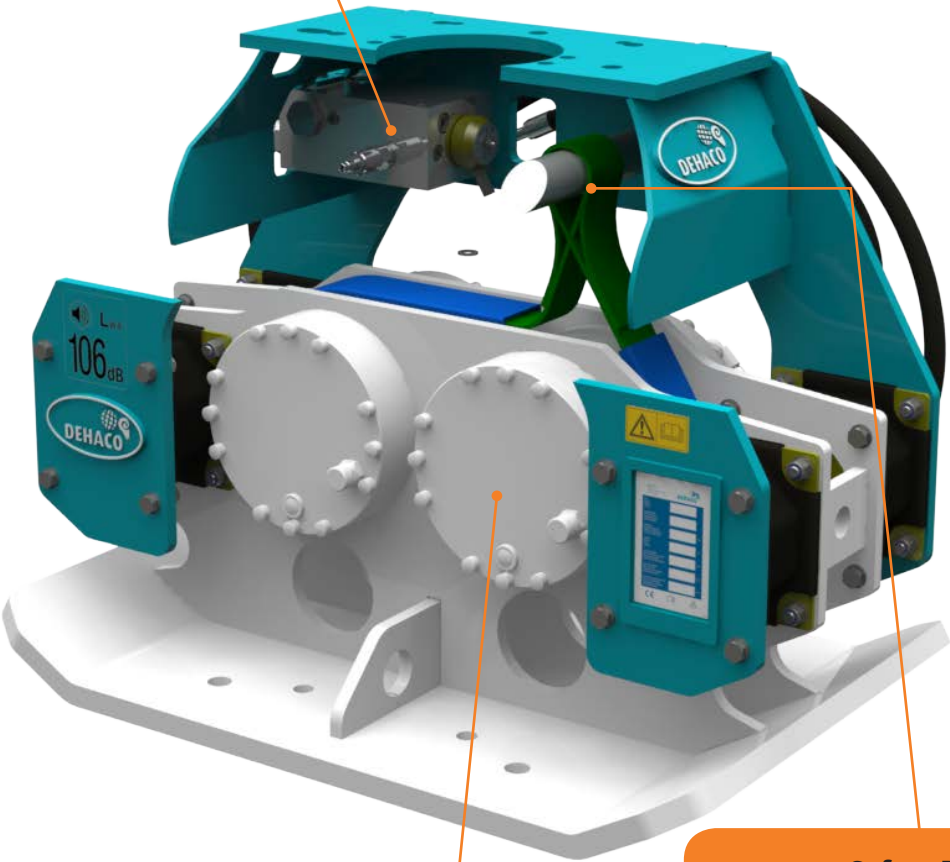
Oscillating compaction applications



Intelligent Dual Power System® (IDP-System®)

Twin eccentrics

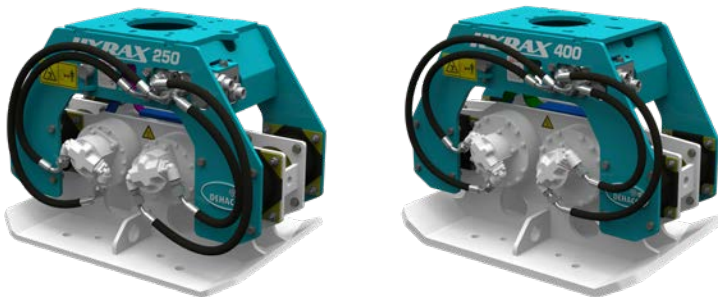
Safety Belt System





Hyrax 250 - 400

Specifications



		HYRAX 250	HYRAX 400
Technical specifications	Carrier weight class ⁽¹⁾	t	3,5 - 9
	Operational weight ⁽²⁾	kg	302
	Standard weight ⁽³⁾	kg	272
	Height	mm	603
	Tamper plate (L x W)	mm	545 x 602
	Oil flow ⁽⁴⁾	l/min	40
	Operating pressure	bar	140 - 180
	Setting pressure	bar	210
	Frequency	RPM	3000
	Impact energy	kN	43
Characteristics	Safety Belt system	●	●
	ISP-System®	-	-
	IDP-System®	●	●
	Mechanical rotation	○	○
	Hydraulic rotation	○	○
	Hydraulic clamp	○	○
Article number		1810.0012	1810.0013

(1) Weights are only applicable to standard carriers. All deviations must be agreed upon prior to the installation by Dehaco and/or the manufacturer of the carrier.

(2) Compactor weight including a standard top bracket and hose set.

(3) Standard compactor weight without top bracket, hoses or rotation.

(4) Depending on the technical features of the excavator.

● Standard

○ Option

- Not available



Options



Model	Type	Article number
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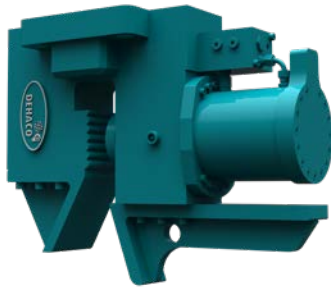
Mechanical rotation Hyrax hydraulic compactors

HYRAX 250 - 400	Mechanical rotation type DMR40 for Hyrax 250/400	1825.0182
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Hydraulic rotation Hyrax hydraulic compactors

HYRAX 250	Hydraulic rotation type DHR75 for Hyrax 250 complete with connection kit	1825.0194
HYRAX 400	Hydraulic rotation type DHR135 for Hyrax 400 complete with connection kit	1825.0195

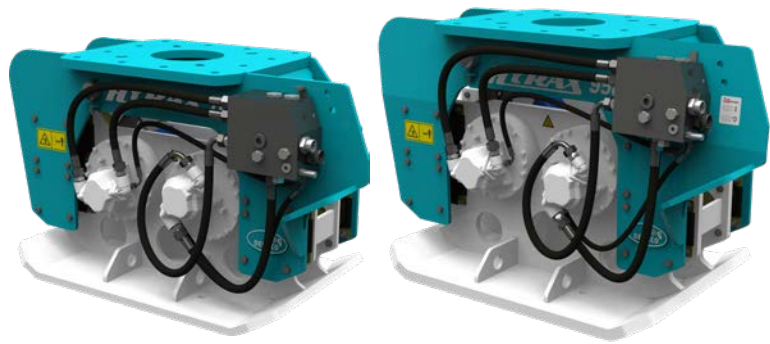
Dehaco hydraulic sheet pile clamp		DK40-B
Weight	kg	265
Oil flow	l/min	10 - 40
Operating pressure	bar	160 - 350
Article number		1810.0001





Hyrax 700 - 950

Specifications



		HYRAX 700	HYRAX 950	
Technical specifications	Carrier weight class ⁽¹⁾	t	13 - 25	22 - 45
	Operational weight ⁽²⁾	kg	974	1224
	Standard weight ⁽³⁾	kg	785	1035
	Height	mm	755	863
	Tamper plate (L x W)	mm	675 x 770	810 x 750
	Oil flow ⁽⁴⁾	l/min	140	230
	Operating pressure	bar	140 - 180	140 - 180
	Setting pressure	bar	210	210
	Frequency	RPM	3000	3000
	Impact energy	kN	159	240
Characteristics	Safety Belt system		●	●
	ISP-System®		-	-
	IDP-System®		●	●
	Mechanical rotation		○	○
	Hydraulic rotation		○	○
	Hydraulic clamp		○	-
Article number		1810.0017	1810.0018	

- (1) Weights are only applicable to standard carriers. All deviations must be agreed upon prior to the installation by Dehaco and/or the manufacturer of the carrier.

(2) Compactor weight including a standard top bracket and hose set.

(3) Standard compactor weight without top bracket, hoses or rotation.

(4) Depending on the technical features of the excavator.
- Standard

○ Option

- Not available

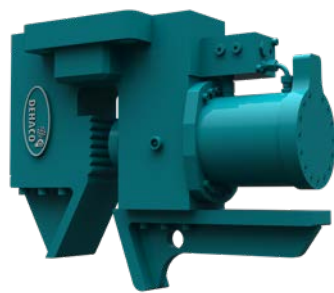


Options



Hyrax 700 - 950
Standard machine +
Mechanical rotation

Model	Type	Article number
Mechanical rotation Hyrax hydraulic compactors		
HYRAX 700 - 950	Mechanical rotation type DMR40 for Hyrax 700/950	1825.0227



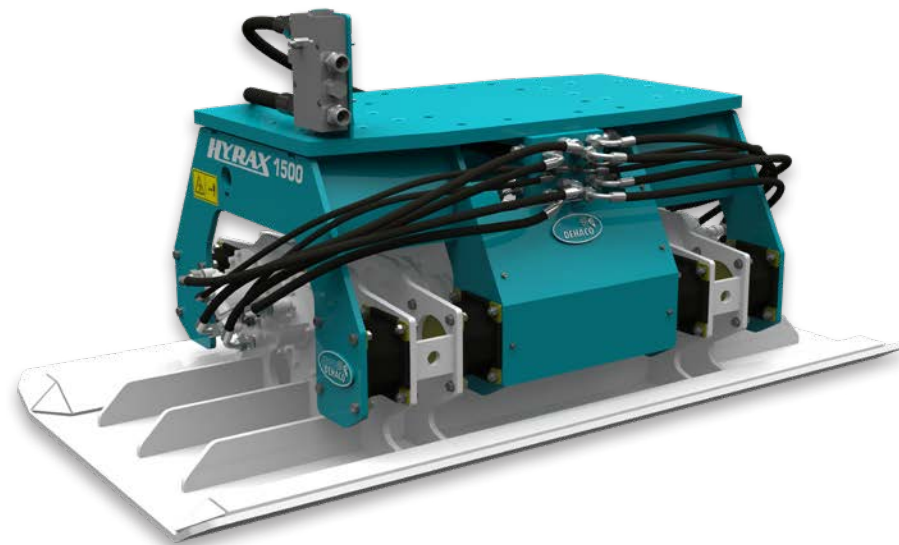
Dehaco hydraulic sheet pile clamp		DK40-B
Weight	kg	265
Oil flow	l/min	10 - 40
Operating pressure	bar	160 - 350
Article number		1810.0001



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Specials



Hyrax 1500



Hyrax 2300





Hydraulic Attachments



Dust suppression systems



Safety Products

For more information contact your dealer:



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WWW.DEHACO.NL