

HYRAX



**Hydraulic
compactors**



English



Driving of sheet piles



Driving of posts



Compacting ground



Compacting coal





HYRAX

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'.

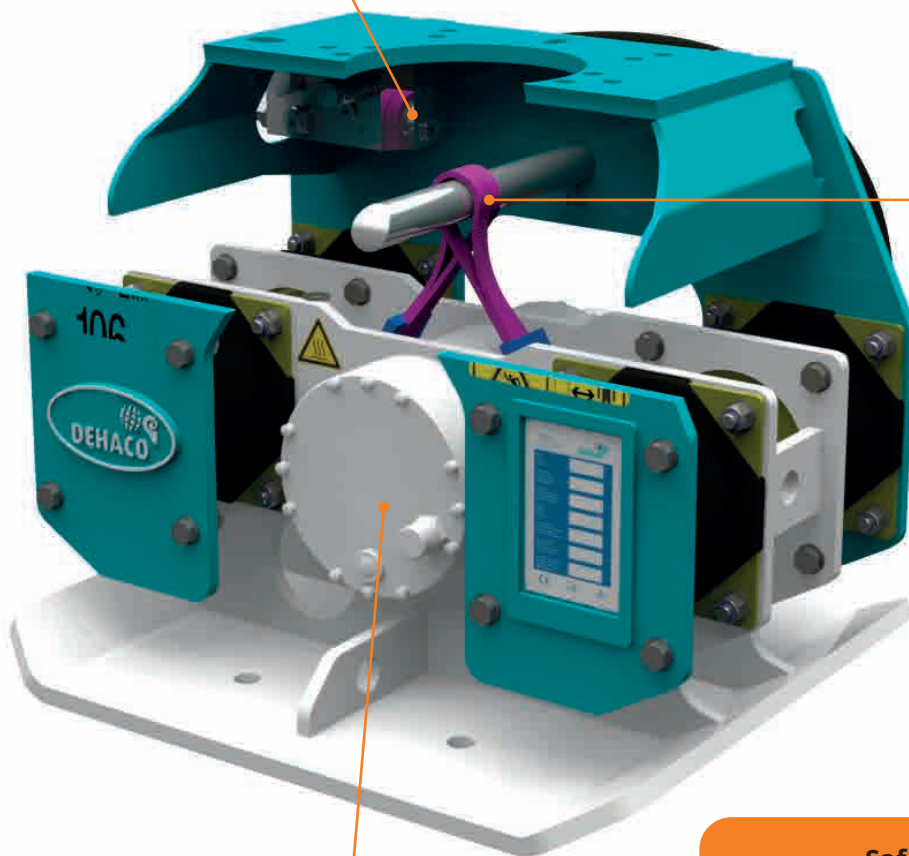
ISP System®



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 a hydraulic ramp function to protect the motor
- Features hose connection protection for the oil supply and return hoses

Intelligent Single Power System® (ISP-System®)

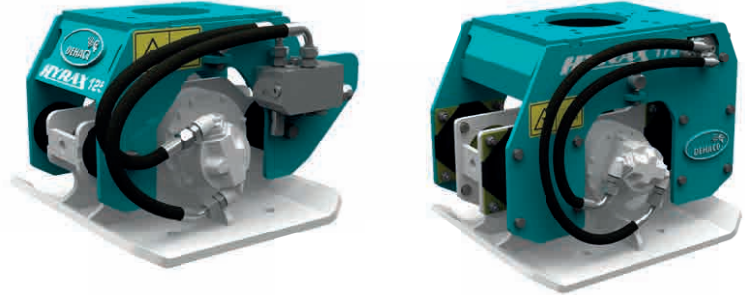


A hydraulically driven eccentric

Safety Belt System

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
	Weight hydraulic rotation operational ⁽⁴⁾	kg	-	287
	Weight mechanical rotation operational ⁽⁵⁾	kg	-	249
	Height	mm	364	503
	Tamper plate (L x W)	mm	480 x 340	520 x 455
	Oil flow ⁽⁶⁾	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) Standard compactor weight hydraulic rotation.

(5) Standard compactor weight mechanical rotation.

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

● Standard

○ Option

- Not available

Options



Hyrax 175
Standard machine +
Mechanical rotation



Hyrax 175
Standard machine +
Hydraulic rotation

Type

Article number

Mechanical rotation Hyrax hydraulic compactors

Mechanical rotation type for Hyrax 125

1825.0545

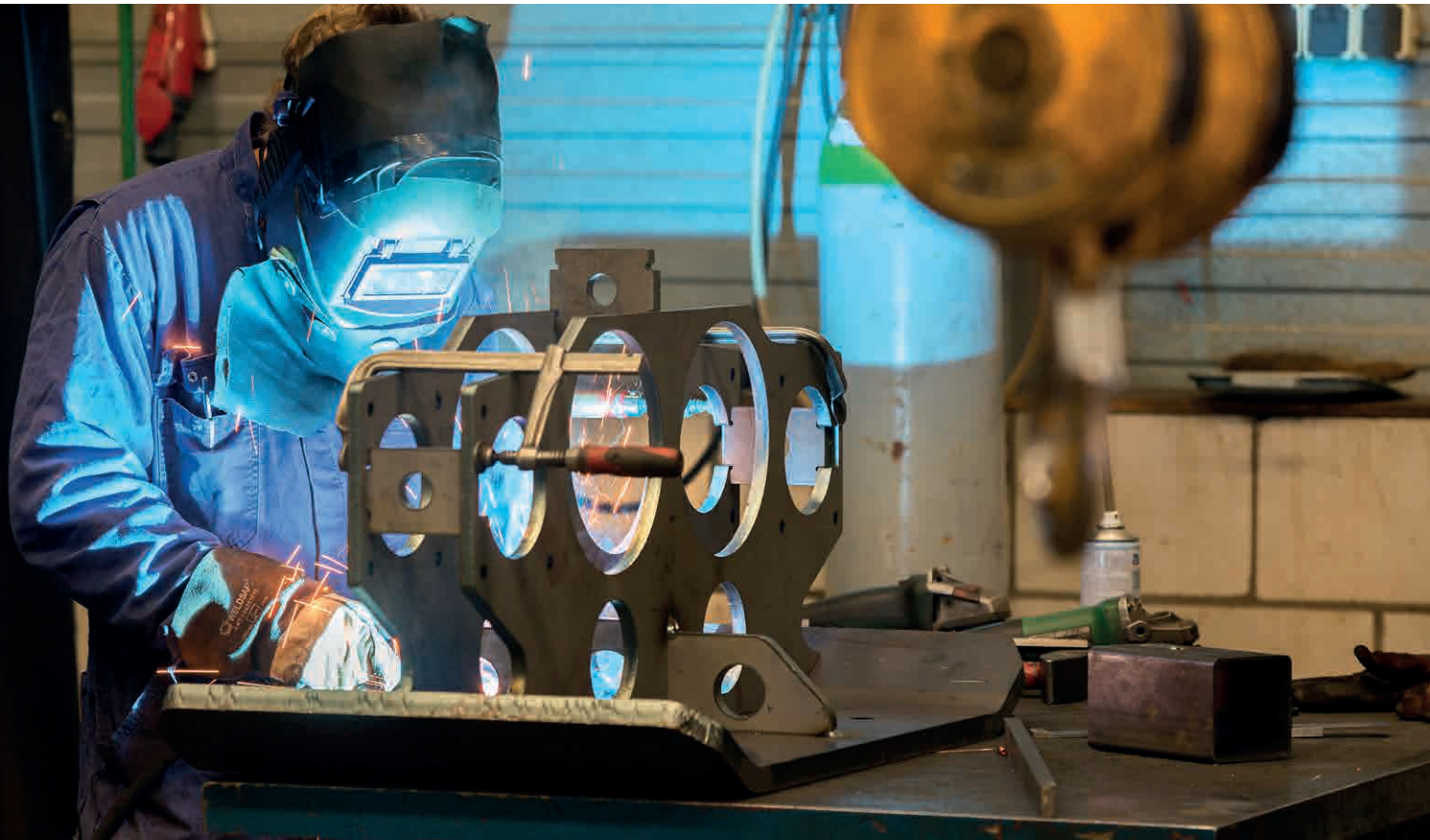
Mechanical rotation type for Hyrax 175/250/400

1825.0182

Hydraulic rotation Hyrax hydraulic compactors

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 a 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.

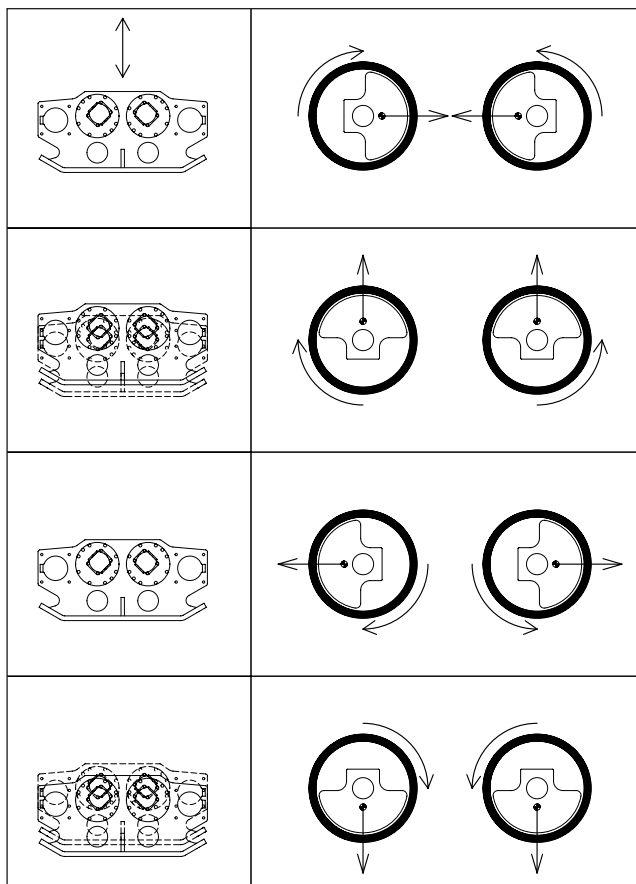
Pile driving

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.

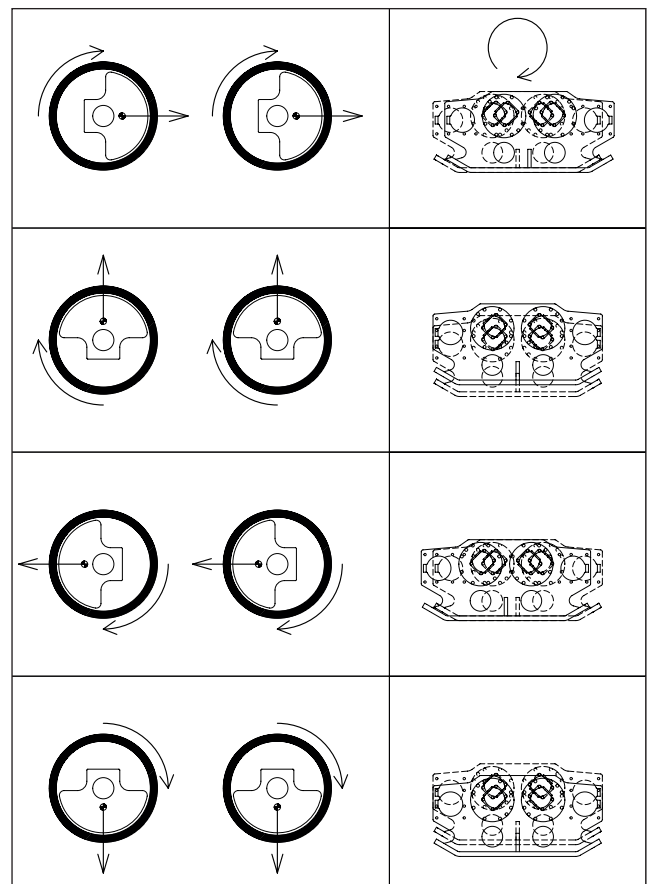
Compacting

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

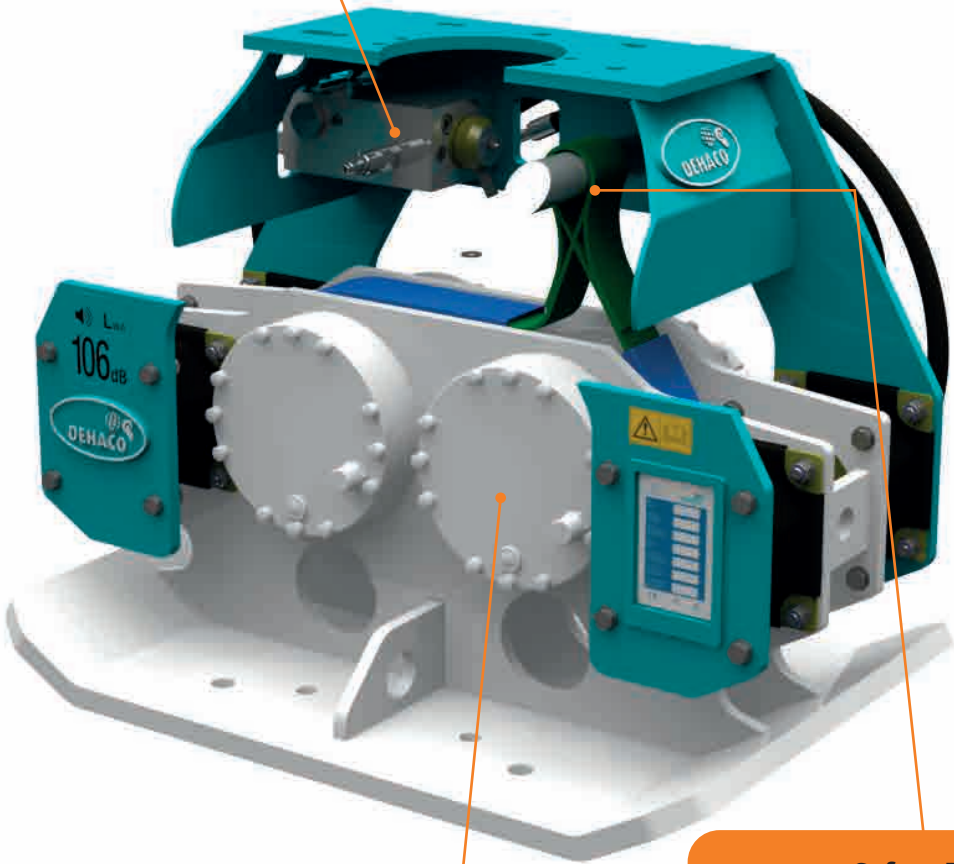


Oscillating compaction applications





Intelligent Dual Power System® (IDP-System®)

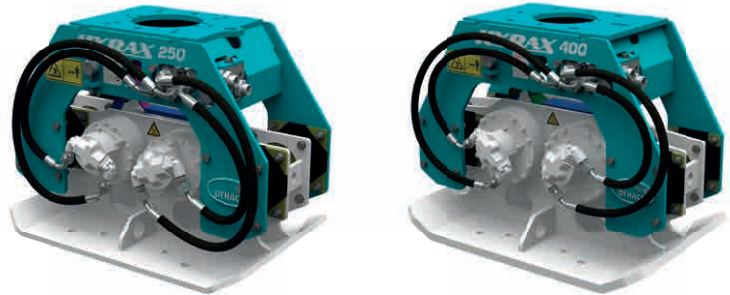


Safety Belt System

Twin eccentrics

Hyrax 250 - 400

Specifications



		HYRAX 250	HYRAX 400	
Technical specifications	Carrier weight class ⁽¹⁾	t	3,5 - 9	8 - 18
	Operational weight ⁽²⁾	kg	302	475
	Standard weight ⁽³⁾	kg	272	415
	Weight hydraulic rotation operational ⁽⁴⁾	kg	400	620
	Weight mechanical rotation operational ⁽⁵⁾	kg	339	512
	Height	mm	603	698
	Tamper plate (L x W)	mm	545 x 602	570 x 617
	Oil flow ⁽⁶⁾	l/min	40	85
	Operating pressure	bar	140 - 180	140 - 180
	Setting pressure	bar	210	210
	Frequency	RPM	3000	3000
	Impact energy	kN	43	91
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) Standard compactor weight hydraulic rotation.

(5) Standard compactor weight mechanical rotation.

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

● Standard

○ Option

- Not available

Options



Hyrax 250 - 400
Standard machine +
Mechanical rotation



Hyrax 250 - 400
Standard machine +
Hydraulic rotation

Type

Article number

Mechanical rotation Hyrax hydraulic compactors

Mechanical rotation for Hyrax 175/250/400

1825.0182

Hydraulic rotation Hyrax hydraulic compactors

Hydraulic rotation type DHR75 for Hyrax 250 complete with connection kit

1825.0194

Hydraulic rotation type DHR135 for Hyrax 400 complete with connection kit

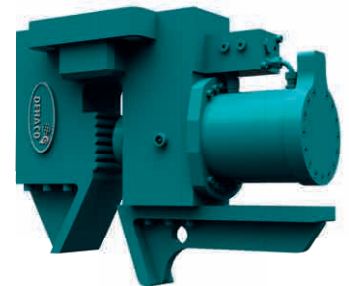
1825.0195

Dehaco hydraulic sheet pile clamp

DK40-B

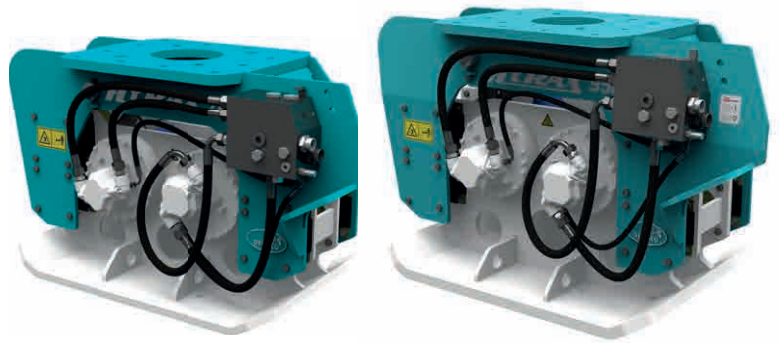
Technical
specifications

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
	Weight mechanical rotation operational ⁽⁴⁾	kg	1136	1386
	Height	mm	755	863
	Tamper plate (L x W)	mm	675 x 770	810 x 750
	Oil flow ⁽⁵⁾	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) Standard compactor weight mechanical rotation.

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

- Standard
- Option
- Not available

Options



Hyrax 700 - 950
Standard machine +
Mechanical rotation

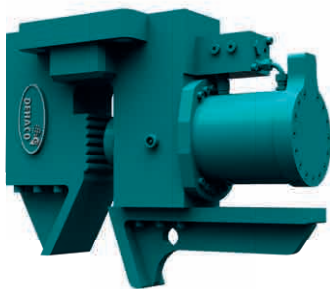
Type

Article number

Mechanical rotation Hyrax hydraulic compactors

Mechanical rotation type DMR40 for Hyrax 700/950

1825.0227



**Dehaco hydraulic
sheet pile clamp**

DK40-B

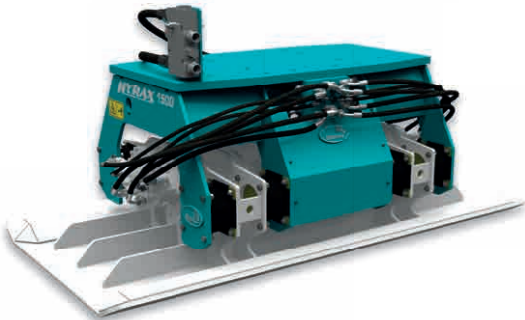
Technical
specifications

Weight	kg	265
Oil flow	l/min	10 - 40
Operating pressure	bar	160 - 350
Article number		1810.0001





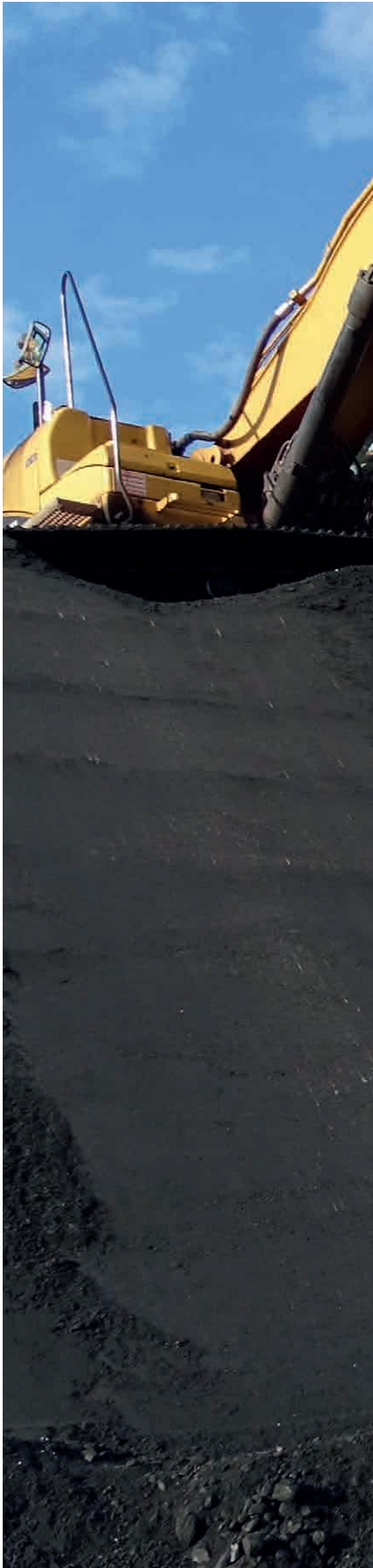
Specials



Hyrax 1500



Hyrax 2300



HYRAX



Dehaco Products



Hydraulic Attachments



Dust suppression systems



Safety Products

For more information contact your dealer:



Copyright 2021, Dehaco B.V.

Dehaco reserves the right to develop and alter products without further notice.

Misprints and printing errors reserved.

The colour of the products may vary slightly from those shown in this brochure.


DEHACO
WWW.DEHACO.NL

EN/HyraxCompactors/2021-08