



HIAB KOREAN XG CRANES
GRAPPLE TYPE / ARTICULATED PRODUCT



HIAB is a world-class land logistics company in Sweden with a long history and tradition as a company that invented the world's first vehicle-mounted hydraulic crane in 1944. We are a company specializing in equipment. Major products include land cranes, offshore cranes, land loading and unloading equipment [Tail Lift, truck-mounted forklifts](Moffett), Demountable], etc., and is the world's largest manufacturer of hydraulic cranes with the world's largest sales in the crane sector. Cargotech Korea Co., Ltd. is a Korean manufacturer of Hiab, supplying and producing cranes in Korea since 1977. It is a brand company specializing in grapple type cranes with the same history. With over 70 dealerships and designated maintenance centers nationwide, we are always with you. Cranes produced in Korea with Hiab's technology are exported to Europe, Australia, Asia as well as the Middle East, Africa, South America and North America through Hiab's worldwide sales network.



Cargotech Korea Co., Ltd. factory view



Cargotech Korea Co., Ltd. Metropolitan Area Center

1944

Founded HIAB
(Sweden) Invented the world's
first vehicle-mounted crane

1977

Hiab Crane
Supply in the
country

Hiab domestic expansion 45th anniversary

2022

Hiab 75th anniversary

2019

Merger with McGregor Korea, Changed company name to Cargotech Korea Co., Ltd.

2010

2008

State-of-the-art painting automation system Completion

2004

Hiab crane domestic sales 10,000 units

2002

Registered as a military supplier

2001

Establishment of Metropolitan Customer Center (MCC)

1999

Hiab Co., Ltd. and Hana Special Vehicle Co., Ltd. Merged into Hiabhana Co., Ltd. and started domestic production

1995

From Kwanglim Hiab Co., Ltd. Changed company name to Hiab Co., Ltd.

1990

Kwanglim - Hiab Establishment of a joint venture

INDIANAPOLIS, USA
Regional Parts Distribution Centre

TALLMADGE, USA
WALTCO tail lifts

SANTO ANTONIO DA PATRULHA, BRAZIL
ARGOS loader cranes

BEST QUALITY & SERVICE

- The only automated hiab crane painting factory in Korea boasts the world's best painting quality.
- Hiab Pro Care is a prepared service contract provided by Hiab to customers,
- This is the best warranty for the products we supply.

Crane Painting Automation Factory



HIAB PROCARE (HIAB SERVICE)



1 INSPECTION

- All product are comprehensively inspected through visual and functional inspections.
- Inspection at the time of shipment, within 2 months after shipment, within 1 year after shipment

2 ESSENTIALS

- We provide consumable replacement parts in a planned preventive maintenance program in accordance with Hiab recommendations

3 WARRANTY+

- We provide planned preventive maintenance by extending the warranty period according to contract terms.

4 TOTAL R&M

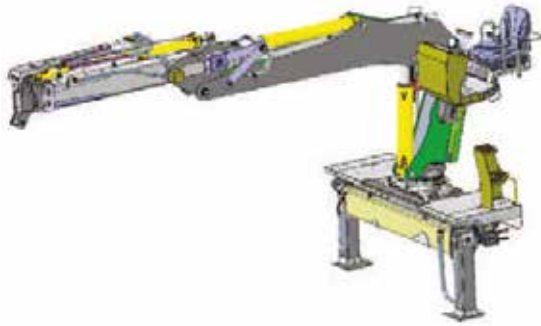
- Comprehensive Service contracts keep you in touch with customers throughout the life of your product through preventive maintenance and after-sales service to keep your product up to date.

The most economical way to extend the life of your product

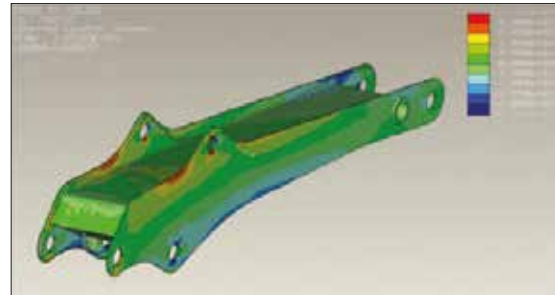
- Replace consumables (filters, hydraulic oil) with regular inspections and a planned preventive maintenance schedule.
- Hiab genuine parts with excellent quality through innovative design guarantee the life of the product.

Design Program

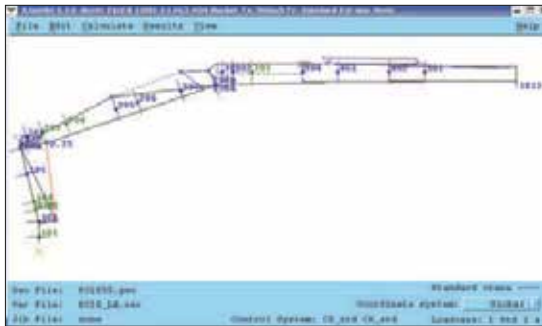
1 | CREO(Pro-Engineer)_3D



2 | CREO Simulator



3 | X-Jumbo – Strength calculation program



4 | Hiab Cylinder calculation program

HIAB Cylinder strength and buckling calculation			
Cylinder: 204-4038			
Leading	Max static pressure ¹⁾	Max pressure range	S class
Pushing	$P_s = 30.0MPa$	$\Delta P_s = 30.0MPa$	$S_s = 3$
Pulling	$P_t = 11.0MPa$	$\Delta P_t = 11.0MPa$	$S_t = 3$
Thickness			
Main geometry	Cylinder tube	Plate net	Max. dia
Outer diameter	$D_o = 370mm$	$D_p = 360mm$	$S = 21 \times 10^3 MPa$
Inner diameter	$d_i = 330mm$	$d_p = 73mm$	
Yield strength	$R_{p0.2} = 1080MPa$	$R_{p0.2} = 1080MPa$	$L = \frac{D_o - d_i}{2} \quad L = 20 mm$
Resistance coefficient			
Visible cracks	$\alpha_{cr} = 1.25$	Hidden cracks	$\alpha_{cr} = 1.25$
			$\alpha_{cr} = 1.1$

Design Proof

1 | Durability Test



2 | Prototype Inspection & Field Test



Manufacturing
plant interior view



WHY HIAB GRAPPLE CRANE

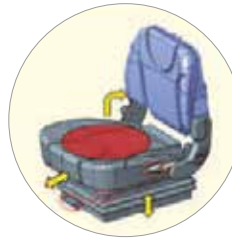
- Best painting quality (only HIAB has a painting automation factory)
- Column-attached storage parasol (design patent pending)
- Low maintenance and high used crane prices
- The world's first vehicle-mounted crane inventor and the largest production and sales company in Korea
- Comfortable work chair with heated wire and suspension applied
- Light weight (comparison of weight with other catalogs) Fixed type
- Safety certification head office implementation

Hiab Grapple Crane

- Suspension and heated top seat for more comfortable work



Comfortable work chair with suspension



- Seat heating applied
- Seat cover application
- Distance adjustment before and after seat
- Suspension height adjustment according to backrest angle and weight

- By increasing the rated pressure, reinforcing the inside of the column, reinforcing the lower part of the outer boom **increasing pressure force**



More convenient operation with hydraulic joystick control system

- Ergonomic design and smooth lever operation greatly reduce work fatigue
- Simultaneous operation of 2-3 or more functions is excellent and can be easily operated to increase work efficiency

- Parasol storage stand for storage with column attachment (design registration)



- Base ladder for boarding with increased convenience (shape change perforation)



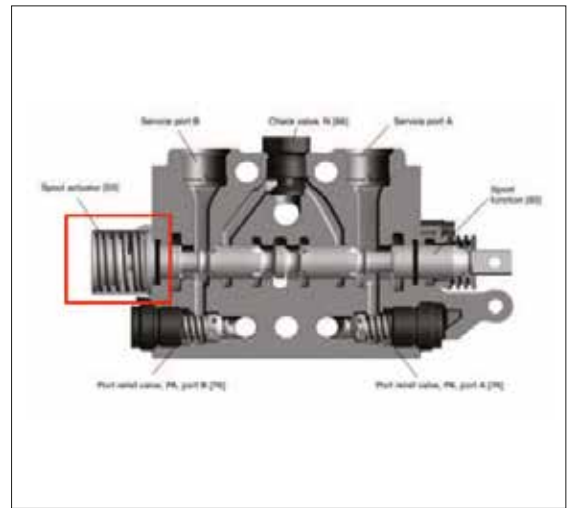
- Clean top seat lower cover



- Inner boom and outer boom work lights



- Improved control valve performance for smooth control lever operation



- Rope for riding



- Applied plated mounting bolts to all products
- Outrigger leg improvement by tight tolerance adjustment



HIAB 19000XG

Max capacity grapple crane

- Maximum capacity clamp crane for vehicle mounting ▪ Lifting capacity 9.57m / 1,700kg
- Grapple capacity 0.6m³ ▪ 9.5 ton truck mountable
- The double rack gear is applied to increase the rotational force and minimizes boom shake even when stopped to realize excellent work performance. Regen spool was used for the external boom and telescopic boom to shorten the operating time, and the simultaneous workability between functions of the crane increased the work efficiency.
- HIAB 19000XG-3 with a 3- stage telescopic boom is also suitable. (HIAB 19000XG-3 / Working radius 11m / Crane capacity 18.3tm)
- You can select the joystick control method.



Division		19000XG
Crane capacity	tm	18.2
Maximum working radius	m	9.57
Lifting Capacity	m / kg	6.2 / 2,900
		7.7 / 2,320
		9.3 / 1,920
		9.57 / 1,700
Rated Pressure	bar	265
Rated Flow	ℓ / min	80
Rotation Angle	°	410
Rotation Speed	°/sec	25
Oil Tank Capacity	ℓ	200
Grapple Capacity	m ³	0.6
Self-weight (excluding O/R)	kg	2,820
Installed Vehicle	ton	9.5 ton over



*Actual lifting load may vary depending on the vehicle in which the crane is installed.