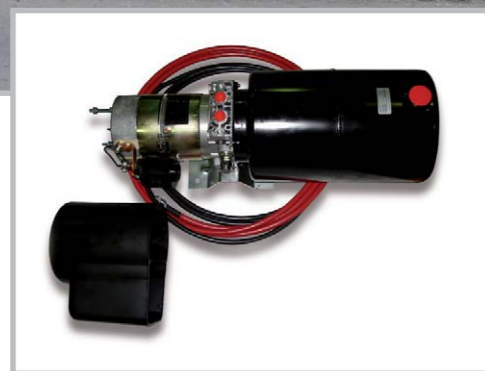


HYVA[®] CRANE HA SERIES



Electro-hydraulic powerpack
HA10 - HA15 - HA22 - HA28 - HA33



Model	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
HA10 E1	875	490	320	235	1,07	1,89	2,77	3,65			
HA10 E2	810	460	315	235	1,13	1,95	2,77	3,65			
HA15 E1	1195	675	450	320	1,07	1,89	2,77	3,65			
HA15 E2	1115	635	440	320	1,13	1,95	2,77	3,65			
HA22 E1	1610	930	630	410	1,23	2,15	3,16	4,12			
HA22 E2	1505	880	620	410	1,31	2,23	3,16	4,12			
HA22 E3	1285	755	530	410	1,38	2,31	3,23	4,16	5,11		
HA28 E1	2085	1220	830	610	1,32	2,25	3,24	4,24			
HA28 E2	1960	1160	820	610	1,39	2,32	3,24	4,24			
HA28 E3	1855	1105	780	605	1,46	2,39	3,31	4,24	5,19		
HA33 E1	3450*	2420	1390	940	1,0	1,42	2,48	3,62	4,75	5,89	6,99
HA33 E2	3430*	2285	1320	930	1,0	1,50	2,56	3,62	4,75	5,89	6,99
HA33 E3	3380*	2155	1255	875	1,0	1,57	2,63	3,69	4,75	5,89	6,99
HA33 E4	3350*	2030	1190	830	1,0	1,65	2,71	3,77	4,83	5,89	6,99
HA70 E2	8730*	3380	1885	1300	1,00	1,99	3,55	5,10	6,75	8,40	
HA70 E3	8620*	3225	1790	1230	1,00	2,09	3,62	5,20	6,75	8,40	10,00
HA70 E4	8530*	3035	1700	1150	1,00	2,15	3,73	5,30	6,85	8,40	10,00
HA100 E1	9000*	3600	2150		1,00	2,50	4,20				
HA100 E2	8800*	3450	2030	1420	1,00	2,55	4,25	6,00	7,59	9,27	
HA100 E3	8740*	3120	1960	1300	1,00	2,80	4,50	6,25	8,00	9,27	
HA100 E4	8600*	3370	1920	1300	1,00	2,55	4,25	6,00	7,75	9,55	

*) Theoretical lifting capacity

Stability control systems (CE)

HS System

The HS System integrated in the load limiting device checks the stabilizers' positions. Only when all beams are fully open and all stabilizers are on the ground the crane can operate and lift loads.

Control display

HML System

The HML System integrated in the load limiting device checks the stabilizers' positions. Only when all beams are fully open and all stabilizers are on the ground the crane can operate and lift loads.

Control display

HL System

The HL system checks the stabilizers' positions and the truck's inclination.

According to the beams' positions, the system allows two operating modes:

- Mode A - all beams fully open and all stabilizers feet on the ground.
- Mode B - stabilizers on the ground only.

In mode A: the load limiting device stops the crane when the crane reaches 100% of the nominal capacity.

In mode B: a dedicated sensor monitors the truck's inclination. The load limiting device stops the crane before it reaches an inclination angle dangerous for stability, or when the crane reaches its nominal capacity.

Control display

HXL System

The TCU checks the positions of the stabilizers beams, monitoring for two possible positions: beam fully open, beam not fully open. Depending on the position of the beams and the stabilizers, the crane's lifting capacity changes according to the setting made by the installer. This allows the operator to use the crane even with a beam partially or fully retracted without having stability problems.

Optional HRCS

The Rotation Control Sensor constantly checks the slewing position of the crane and limits the lifting capacity depending on the beams' and the stabilizers' positions.

H2XL System

The TCU checks the positions of the stabilizers and divides the working area into 4 slewing sectors: over the cabin, right side, left side and the rear of the vehicle. Depending on the position of the beams and the stabilizers, the crane's lifting capacity changes according to the settings made by the installer. This allows the operator to use the crane even with a beam partially or fully retracted without having stability problems.

HPES

The HPES (Proportional Encoder Sensor) recognizes 3 positions of the stabilizers' beams: fully open, half extended, fully closed.

HRCS

The HRCS (Rotation Control Sensor) recognizes 4 slewing sectors: over the cabin, right side, left side, to the rear of the vehicle.

The CAN-BUS radio-control allows the operator to know the positions of the stabilizers and the loading conditions of the crane. With manual opening stabilizers, the H2XL System only recognizes completely open or completely closed beam positions.

*) The percentages present in the pictures are merely examples and they have no bearing on the cranes' real lifting capacities. The cranes' real lifting capacities will depend on truck's stability.

Model	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
HA110 E2	10350*	3980	2370	1655	1290	960					
HA110 E3	10200*	3585	2175	1525	1180	960					
HA110 E4	10100*	3870	2245	1535	1160	935					
HA160 E2	14540*	6290	3685	2590	1760	1415	1030				
HA160 E4	14210*	5845	3400	2340	1760	1415	1030	870	680		
HA160 E6	13810*	5590	3215	2175	1600	1255	1030	870	680		
HA180 E2	15460*	6690	3925	2765	1895	1525	1120				
HA180 E4	15130*	6225	3640	2530	1895	1525	1120	945	770		
HA180 E6	14820*	5995	3450	2360	1740	1365	1120	945	745		

*) Theoretical lifting capacity

EES Extra Extension Speed

A special regenerative valve re-uses oil during extension, ensuring an incredibly high speed without compromising the safe operation of the crane.

LCS Lift Control System

Lift Control System increases the capacity of the crane up to 10% by reducing the speed when the crane is near its maximum lifting capacity.

Stability control systems (CE)

Models	HS	HML	OPTIONAL HL	HXL	H2XL
HA 10					
HA 15	●	✗	✗		
HA 22	●	✗	✗		
HA 28	●	✗	✗		
HA 33	●	✗	✗		
HA 70		✗	✗	●	
HA 100					✗
HA 110					✗
HA 160					✗
HA 180					✗

● Standard ✗ Radio Version



HYVA[®] CRANE HA SERIES



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MODELS	LIFTING MOMENT (t)	MAX VERTICAL REACH (m)	STEERING ANGLE (°)	STEERING TIME (s/180°)	MAX WORKING HEEL (°)	WORKING PRESSURE (bar)	CRANE WEIGHT WITHOUT STABILIZERS (kg)	OIL TANK CAPACITY (l)	OIL FLOW (l/min)	DIMENSIONS (mm B x h x S)
HA10 E1	1,00	3,01	328	16	3	180	145	17,5	5	595x1240x370
HA10 E2	-	3,85	328	16	3	180	164	17,5	5	647x1240x370
HA15 E1	1,30	3,00	335	10	3	160	174	17,5	8	620x1241x430
HA15 E2	-	3,80	335	10	3	160	193	17,5	8	672x1241x430
HA22 E1	2,00	3,58	335	10	3	160	216	17,5	8	695x1487x430
HA22 E2	-	4,51	335	10	3	160	240	17,5	8	710x1487x430
HA22 E3	-	5,50	335	10	3	150	262	17,5	8	868x1521x430
HA28 E1	2,75	3,74	335	16	3	160	263	17,5	10	730x1587x440
HA28 E2	-	4,64	335	16	3	160	295	17,5	10	753x1587x440
HA28 E3	-	5,54	335	16	3	160	321	17,5	10	753x1587x440
HA33 E1	3,45	3,94	395	16	3	175	301	17,5	10	976x1702x440
HA33 E2	-	4,98	395	16	3	175	337	17,5	10	1040x1702x440
HA33 E3	-	6,01	395	16	3	175	370	17,5	10	1040x1702x440
HA33 E4	-	7,01	395	16	3	175	399	17,5	10	1040x1702x440
HA70 E2	6,7	8,00	387	15	4	260	780	35	18	2310x1995x550
HA70 E3	-	9,50	387	15	4	260	840	35	18	2310x1995x550
HA70 E4	-	11,00	387	15	4	260	900	35	18	2310x1995x550
HA100 E1	9,00	7,60	395	17	4	260	900	60	20	2350x2300x590
HA100 E2	-	9,46	395	17	4	260	1000	60	20	2350x2300x590
HA100 E3	-	11,45	395	17	4	260	1080	60	20	2350x2300x590
HA100 E4	-	13,00	395	17	4	260	1145	60	20	2350x2300x590
HA110 E2	10,3	9,46	395	17	4	295	1000	60	20	2350x2300x590
HA110 E3	-	11,45	395	17	4	295	1080	60	20	2350x2300x590
HA110 E4	-	13,00	395	17	4	295	1145	60	20	2350x2300x590
HA160 E2	14,5	9,00	380	20	4	280	1360	100	30	2480x2380x700
HA160 E4	-	12,30	380	20	4	280	1580	100	30	2480x2380x850
HA160 E6	-	15,80	380	20	4	280	1740	100	30	2480x2380x880
HA180 E2	15,5	9,00	380	20	4	290	1380	100	30	2480x2380x700
HA180 E4	-	12,30	380	20	4	290	1600	100	30	2480x2380x850
HA180 E6	-	15,80	380	20	4	290	1760	100	30	2480x2380x880

E = Number of hydraulic extensions. - E3 = three extensions

X GENERATION Radio Remote Control

Single hand proportional system

HA10
HA15
HA22
HA28
HA33
HA70



Pressure compensated inlet section: BOSCH

Multifunction radio control

HA100
HA110
HA160
HA180



NO CE Version

CAN-BUS
Only CE Version



Pressure compensated control valve: HAWA PSL2

HA SERIES



HYVA[®] CRANE

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TRUCK MOUNTED CRANES HA SERIES



HYVA[®] CRANE

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STANDARD

- From HA10 to HA33**
- Load limiting device (CE) (NO HA10)
 - Hexagonal section extensions
 - Designed in accordance with: EN12999-DIN15018
 - Fatigue test classification: B3
 - Flanged valve (NO HA10)
 - Control panel with customizable position
 - ABS protective cover on controls
 - Worm and gear rotation
 - Fittings SAE-JIC
 - Sliding pads on telescopic extensions
 - Self-lubricating bushings
 - Independent telescopic cylinders
 - Light indicator for correct stabilizer stowing (CE)
 - Mechanical rotation limitation (CE) (NO HA10)
 - Swivel stabilizer foot
 - Proportional pressure transducer on main cylinder (CE) (NO HA10)
 - Sensor for correct stowing of the crane (CE) (NO HA10)
 - 90%-100% light visible from all around the crane (CE) (only with radio remote control) (NO HA10)

- From HA70 to HA180**
- Load limiting device (HA160-180) (1)
 - Hexagonal section extensions
 - Independent extension cylinders
 - Flanged valve
 - Designed in accordance with: EN12999-DIN15018
 - Fatigue test classification: B3
 - Manually opening stabilizers
 - Oil tank
 - Fittings SAE-JIC
 - Sliding pads on telescopic extensions
 - Self-lubricating bushings
 - Fixed stabilizer cylinders
 - Light indicator for correct stabilizer stowing (CE)
 - Mechanical rotation limitation (CE) (No with H2XL System or HRCS)
 - Dual controls (No with radio remote control)
 - Swivel stabilizer foot
 - Plastic cover on the control station (CE) (NO HA70)
 - Proportional inclination sensor on boom (CE)
 - Proportional pressure transducer on main cylinder (CE)
 - Sensor for correct stowing of the crane (CE)
 - 90%-100% light visible from all around the crane (CE or radio remote control) (2)

ACCESSORIES

- From HA10 to HA33**
- Radio remote control
 - Assembly kit
 - Oil tank
 - Supplementary element activation (NO HA10-15-33 E4)
 - Winch
 - Manual extensions
 - Electro-hydraulic powerpack
 - Extra cross beams
 - Tubular base for crane stabilizers (single or double)
 - Manually opening stabilizers
 - Manually opening and turning stabilizers
 - "Green" Oil

- From HA70 to HA180**
- Radio remote control
 - Supplementary elements activations
 - Winch
 - Assembly kit
 - Manual extensions
 - Hydraulic extensible stabilizers (HA100-110)
 - Manually extra extensible stabilizers (HA70)
 - Hydraulic extra extensible stabilizers (HA70-160-180)
 - Hydraulic super-extra wide stabilizers (HA160-180)
 - Turning stabilizers
 - Top seat
 - Operator Full Protection
 - Extra cross beams
 - Mechanical rotation limitation (No CE)
 - Oil cooler
 - "Green" Oil

- (1) HA70 (CE only)
HA100-110 (CE or with radio remote control)
(2) HA70 (CE with radio remote control)

HYVA[®] CRANE HA SERIES

