

HYVA[®] CRANE
HA 110



	MOMENT D'ELEVATION MAX. MAX. AUFHEBEMOMENT MOMENTO DE ELEVACO MAX.	LONGUEUR DU BRAS VERTICALE MAX VERTIKALE REICHWEITE ALCANCE MAX. VERTICAL	ANGLE ROTATION DREHWINKEL NGULO DE rotaO	VIITESSE DE ROTATION DREHGESCHWINDIGKEIT VELOCIDADE DE rotaO	DEVERS MAXI DE TRAVAIL MAX. ARBEITSNEIGUNG PENDNCIA MAX. DE TRABALHO	PRESSION DE SERVICE BETRIEBSDRUCK PRESSO DE TRABALHO	MASSE GRUE SANS STABILISATEURS KRANGEWICHT OHNE ABSTTZUNGEN PESO DA GRUA SEM ESTABILIZADORES	POIDS DES STABILISATEURS GEWICHT DER ABSTTZUNGEN PESO DOS ESTABILIZADORES	CONTENANCE RSERVOIR HUILE LBERHALTERHALT CAPACIDADE DO DEPOSITO DE OLEO	DBIT D'HUILE HYDRAULIQUE AU DISTRIBUTEUR HYDRAULISCHE LTRAGNGIGKEIT ZUM WEGEVENTIL DESCARGA DE OLEO HIDRAULICO AO DISTRIBUIDOR	
MODELS	LIFTING MOMENT	MAX VERTICAL REACH	SLEWING ANGLE	SLEWING TIME	MAX WORKING HEEL	WORKING PRESSURE	CRANE WEIGHT WITHOUT STABILIZERS	WEIGHT OF STABILIZERS	OIL TANK CAPACITY	OIL FLOW	DIMENSIONS
	T.m	m		s/180		bar	kg	kg	l.	l/min	mm. B x h x S
HA110 E2	10,3	9,46	395	17	4	295	1000		60	20	2350x2300x590
HA110 E3	-	11,45	395	17	4	295	1080	190 Std.	60	20	2350x2300x590
HA110 E4	-	13,00	395	17	4	295	1145	230 Hyd.	60	20	2350x2300x590

ACCESSORIES

Load limiting device (No CE)
Supplementary elements activations
Mechanical rotation limitation (No CE)
Winch
Manual extensions
Hydraulic opening stabilizers
Turning stabilizers
Top seat
Operator Full Protection
Extra cross beams
"Green" Oil[®]

ACCESSOIRES

Limiteur de moment (Non CE)
Activation lments supplmentaires
Limitation mcanique de la rotation (Non CE)
Treuil
Rallonges mcaniques
Stabilizateurs avec ouverture hydraulique
Stabilizateurs tournants
Poste de manoeuvre en haut
Operator Full Protection
Bquilles supplmentaires
Huile cologique[®]

ZUBEHOERE

Momentbegrenzer (Nicht CE)
Zustzliche Steuerelemente
Schwenkbegrenzer (Nicht CE)
Seilwinde
Mechanische Ausleger
Hydraulisch ausfahrbare Absttzungen
Drehbare Absttzebeine
Hoch Fuhrersitz
Operator Full Protection
Zusatzabsttzungen
Bio-l[®]

ACCESORIOS

Vlvula limitadora de momento de carga (No CE)
Ativao de elementos suplementares
Limitador mecnico de giro (No CE)
Guincho de cabo
Extenses mecnicas
Estabilizadores hidraulicamente estendidos
Estabilizadores giratrios
Posto de manobra no cima
Operator Full Protection
Estabilizadores adicionais
leo ecolgico[®]

Eco-friendly



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DEALER



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TRUCK-MOUNTED CRANES
HA 110



HYVA[®] CRANE HA 110



- Load limiting device (CE)
- Hexagonal section extensions
- Independent extension cylinders
- Flanged valve
- Assembly kit
- 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 outrigger foot
- Plastic cover on the control station (CE)
- 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)



- Limiteur de moment (CE)
- Extensions à section hexagonale
- Vérins hydrauliques à sortie indépendante
- Vanne bridée
- Kit de brides de fixation
- Projet en accords aux normes: EN12999-DIN15018
- Essai de fatigue avec classification: B3
- Stabilisateurs élargissables manuels
- Réservoir huile
- Tujauterie SAE-JIC
- Patins de coulissement sûr les éléments télescopiques
- Douilles autolubrifiantes
- Vérins stabilisateurs fixes
- Kit capteurs de replies de béquilles stabilisatrices (CE)
- Limitation mécanique de la rotation (CE) (Non avec H2XL System ou HRCS)
- Commandes bilatérales (Non avec radiocommande)
- Plat d'appui béquilles avec joint à rotule
- Capot de protection du bloc de commande (CE)
- Capteur proportionnel d'inclinaison sur le bras (CE)
- Capteur de pression proportionnel sur le vérin de levage (CE)
- Capteur de position "grue repliée" (CE)
- Colonne tricolore indiquant le statut de charge (90%-100%) visible de tous les côtes de la grue (CE)



- Momentbegrenzer (CE)
- Sechskantige Ausschübe
- Unabhängige Schubzylinder
- Ventil mit Flansch
- Befestigungsteile
- Berechnungsnorm nach EN12999-DIN15018
- Ermüdungstest in Klasse: B3
- Manuell ausfahrbare Abstützungen
- Ölbehälter
- Anschlüsse SAE-JIC
- Gleitschuhe auf den Ausschüben
- Selbstschmierende Buchsen
- Feste Abstützungen
- Warleuchte für Abstützungen (CE)
- Mechanischer Schwenkbegrenzer (CE) (Nicht mit H2XL System oder HRCS)
- Beidseitige Kransteuerungen (Nicht mit Funkfernsteuerung)
- Gelenkstützsteller
- Kunststoffabdeckung für die Bedienungseinheit (CE)
- Proportional sensor für die Neigung am Ausschub (CE)
- Proportionaler Druckwandler am Hauptzylinder (CE)
- Sensor für die korrekte Zusammenfaltung des Kranes (CE)
- Licht 90%-100% sichtbar von allen Seiten des Kranes (CE)



- Válvula limitadora de momento de carga (CE)
- Extensões sextavadas
- Cilindros de extensão independentes
- Válvula flangeada
- Kit de montagem
- Norma do projeto: EN12999-DIN15018
- Tipo de ensaio de fadiga: B3
- Estabilizadores manualmente estendidos
- Reservatório de óleo
- Conexões SAE-JIC
- Calços deslizantes em extensões telescópicas
- Buchas auto-lubrificantes
- Estabilizadores fixos
- LED indicador de recolhimento correcto de estabilizador (CE)
- Limitador mecânico de giro (CE) (Não com H2XL System ou HRCS)
- Comandos bilaterais (Não com comando por rádio)
- Plataforma de patolamento articulada
- Proteção plástica nas alavancas de comando (CE)
- Sensor de inclinação no braço (CE)
- Transdutor de pressão no cilindro de elevação (CE)
- Indicador luminoso de recolhimento correcto de guindaste (CE)
- Indicação luminosa 90%-100% visível de todos os lados do guindaste (CE)

HA110 E2	10350*	3980	2370	1655	1290	960
m	1,00	2,60	4,30	6,05	7,44	9,32

HA110 E3	10200*	3585	2175	1525	1180	960
m	1,00	2,85	4,55	6,30	8,05	9,32

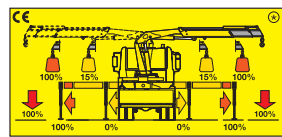
HA110 E4	10100*	3870	2245	1535	1160	935
m	1,00	2,60	4,30	6,05	7,80	9,60

*) Theoretical lifting capacity

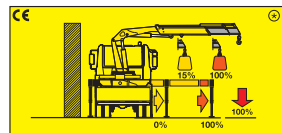


Stability control systems (CE)

HXL System



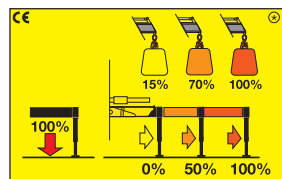
The **TCU** checks the positions of the stabilizers beams, monitoring for two possible positions: beam fully open, beam not fully open. Depending on the position of the beams and the stabilizers, the crane's lifting capacity changes according to the setting made by the installer. This allows the operator 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.

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

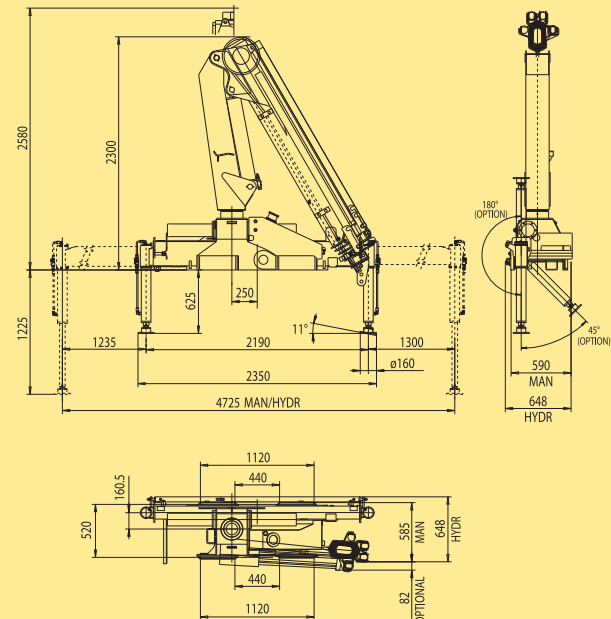
The **HRCS** (Rotation Control Sensor) recognizes 4 slewing sectors: over the cabin, right side, left side, to the rear of the vehicle.

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 crane's real lifting capacities. The crane's real lifting capacities will depend on truck's stability.



HB 110 X

CAN-BUS



Only CE Version

Pressure compensated control valve: **HAWE PSL2**

■ Multifunction remote control

■ Protected against radio interference

■ Move around the truck freely

Truck-mounted cranes