EN

FASSI

LEADER IN INNOVATION



PRODUCT PRESENTATION:

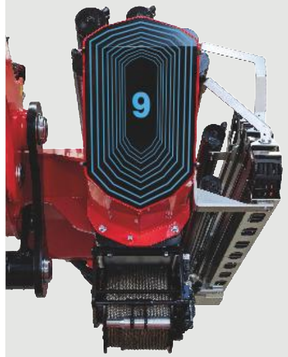
TECHNO

F705R.2-HXP

F705R.2-HXP TECHNO

Decagonal section

9 extension booms





New “**X-Design**” for the outer and extension booms



Electronic System

New Electronic System **FX990**







NUOVO X-DESIGN

EXTENSION BOOMS WITH DECAGONAL SECTION

- In combination with **ultra-high strength steel, it enables to achieve a weight reduction of the booms** and a remarkable increase of the capacity in vertical configuration
- **Lighter than the traditional** hexagonal structure
- Wider supporting surface, that means greater rigidity in the vertical position with **possible increase of the loads in this configuration** even in combination with jib

FASSI

FX990

ELECTRONIC SYSTEM



ELECTRONIC LIFTING MOMENT LIMITING DEVICE

- **Ethernet** communication
- Electronic lifting moment limiting device with double transducer on inner ram
- Wider personalisation of **working areas**
- **FSC**-Techno
- Better **working speed** and dynamic control
- Automatic **XP and JDP functions**
- **PSC** ready
- **Control of the outriggers** with one or two levers
- Dynamic **Maintenance Assistant**
- New **Fassilim** for service
- New **FX991** touch screen
- New **IoC** system

FASSI



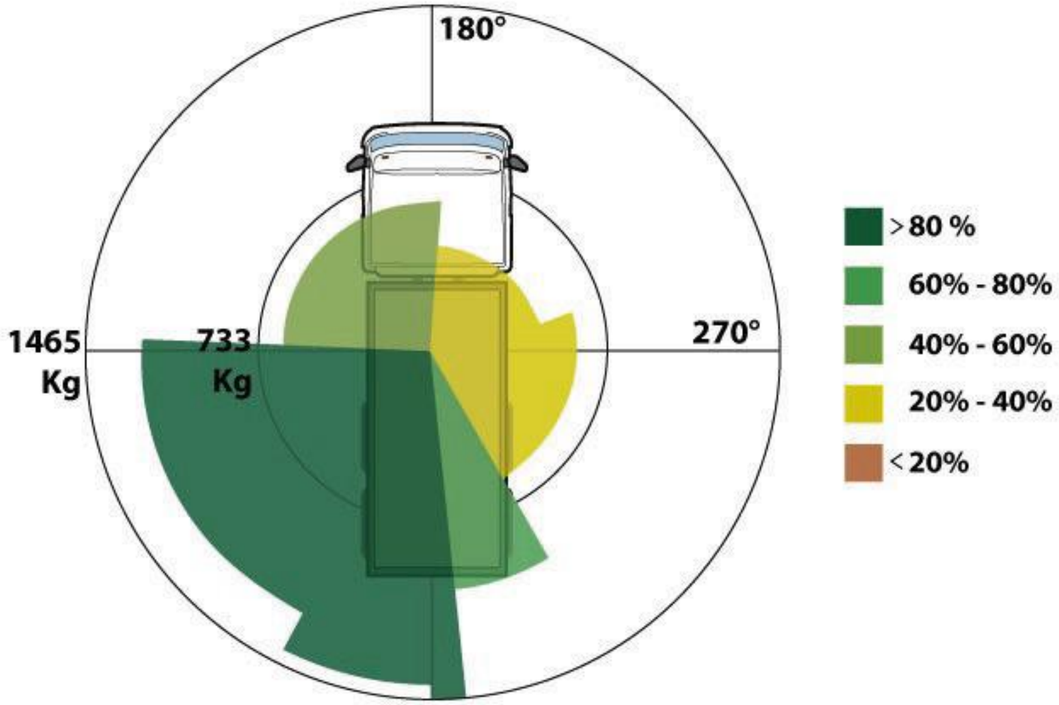
NEW FIRMWARE

TECHNO

FSC - TECHNO

MANAGEMENT OF THE WORK AREAS

The Firmware enables to define and manage a bigger amount of work areas as well as more flexibility in **programming and defining “ad hoc” works areas**.



NEW FIRMWARE

MANAGEMENT OF DYNAMICS

The control of crane dynamics ensures a better proportionality of crane movements: **smoother and more harmonious movements as well as a better programmability and customizability** of the movements.

LIFT. MOMENT LIMITING DEVICES

The double pressure transducer on the inner ram enables a better detection of the load-induced pressure and this means a **greater precision for the intervention of the lifting moment limiting device**.

JDP AND XP

Under safe conditions, the crane electronics **activate the power surplus for jib**, managing the power increase.

DYNAMIC MAINTENANCE ASSISTANT

It is defined dynamically, i.e. depending on the actual use of the crane, how many working hours until the next maintenance work, and this makes it possible to plan the machine downtime.

RADIO REMOTE CONTROL



TECHNO

COLOUR RADIO CONTROL V7S

- **4,3’ colour display**
- **24 Bit** - 480x272 px
- Automatic management of the contrast function depending on ambient light
- **Virtual scroll** 6x
- **3** fixed buttons





CRANE
TECHNICAL FEATURES



TECHNO



EXTENSION BOOMS

F705R.2.9

9 extension booms



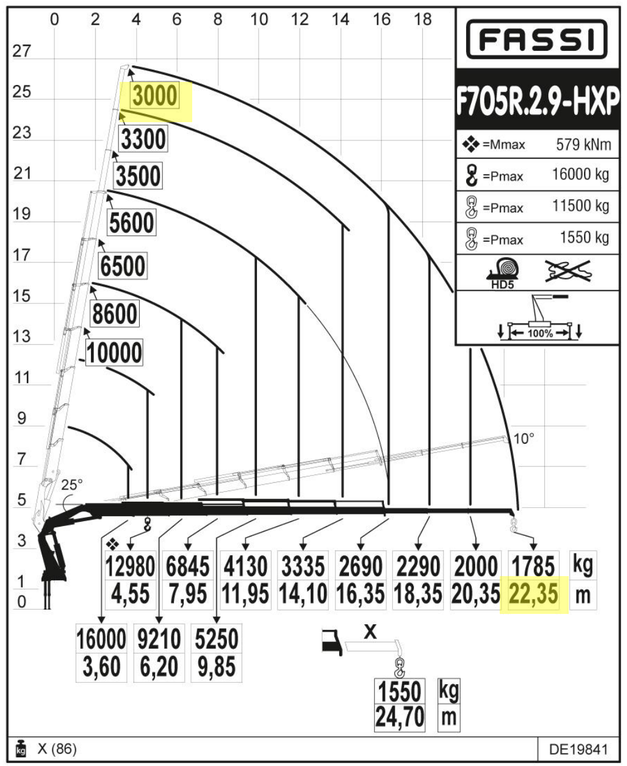
EXTENSION BOOMS

Version with 9 extension booms

FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

F705R.2.9-HXP TECHNO - Load Diagram

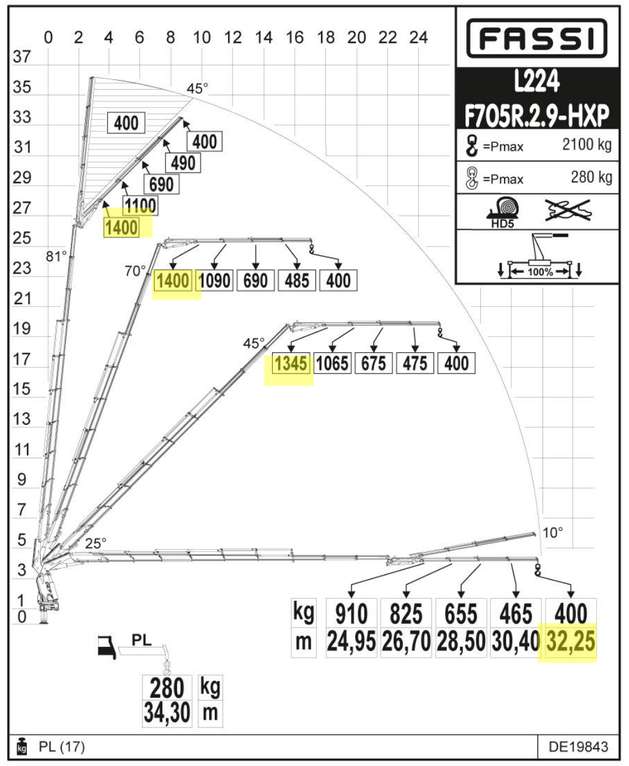
LOAD DIAGRAM WITH LIFTING MOMENT LIMITING DEVICE



FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 7 76400
Fax: +39 035 755020
www.fassi.com
fassi@ fassi.com

F705R.2.9/L224-HXP TECHNO - Load Diagram

LOAD DIAGRAM HYDRAULIC EXSTENSIONS WITH LIFTING MOMENT LIMITING DEVICE



FEATURES
OF THE STANDARD CONFIGURATION



- **Flow Sharing D900 proportional digital distributor**

  positioned on the column (pressure filter included).

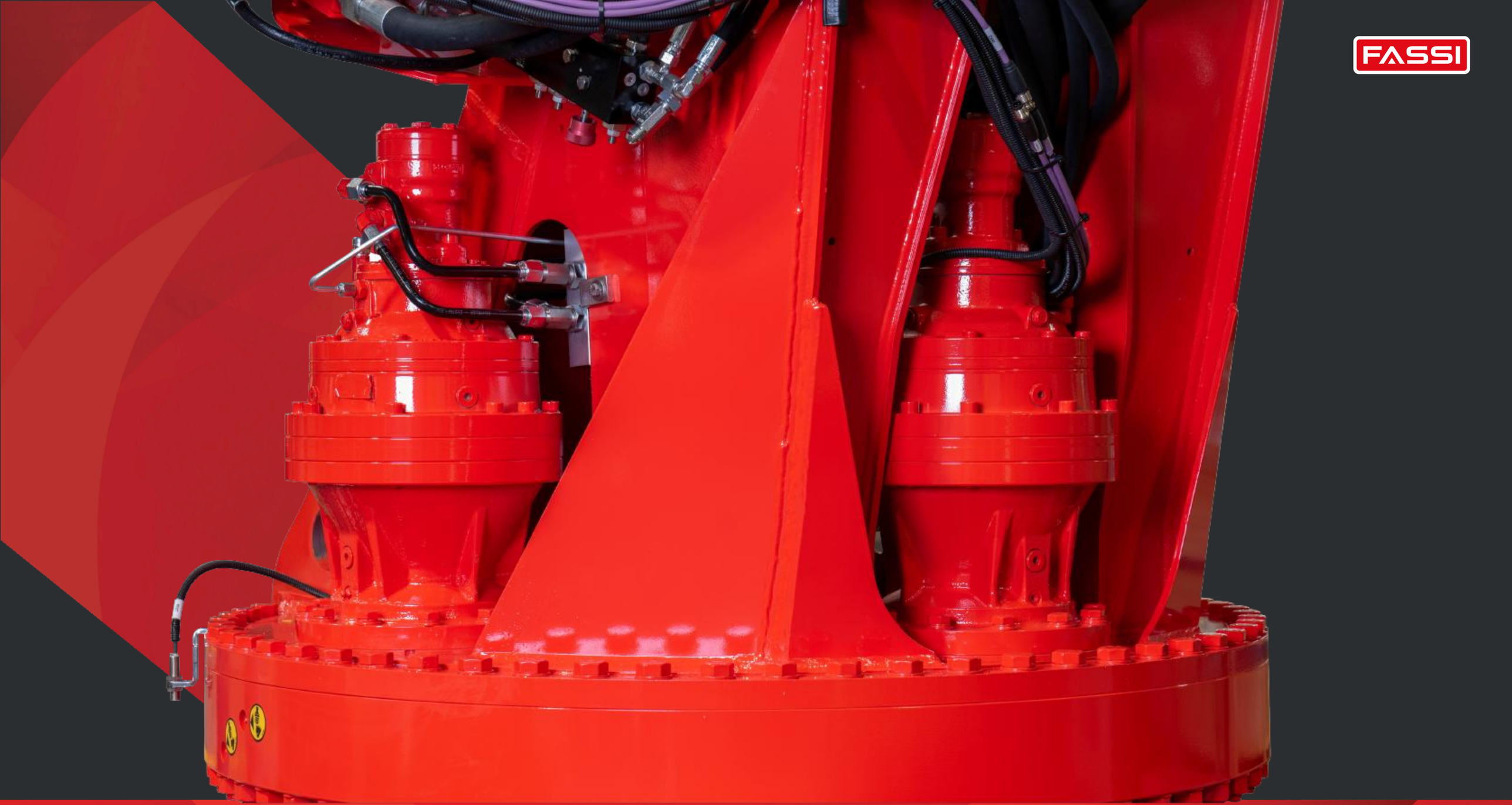
- **V7S radio control with 6 linear functions**

  (manual control of the outriggers only in case of emergency).

- **XP** automatic device.

- **FX990** electronic lifting moment limiting device.

- **FX991** touch screen display.

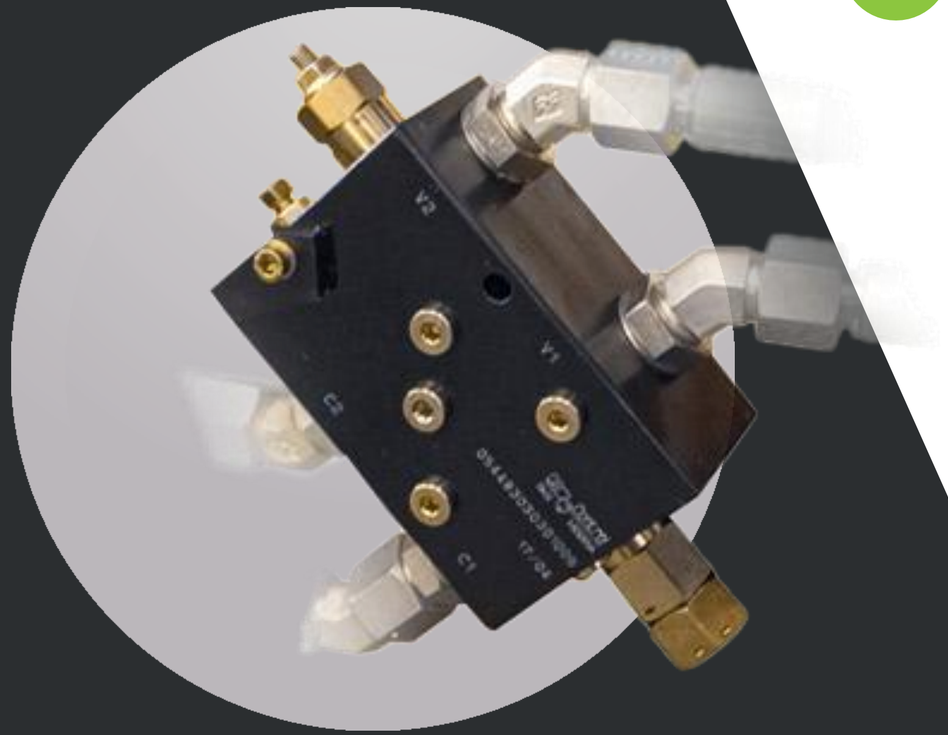


FEATURES OF THE STANDARD CONFIGURATION



- **Hydraulic Prolink**
  increasing the outer boom up to 10° above the horizontal line
- **360° continuous rotation** by means of double hydraulic motor
- **“Carbon look” carters** to cover the hydraulic and electric systems, the moto-reducer, the column side and the inner boom
- **Dynamics control** through the system IMC – ADC
- **Electric recycling valve** to maximize the speed of the extension booms

FEATURES OF THE STANDARD CONFIGURATION



- **XF system for block valves** to guarantee the utmost operative speed as well as smooth movements.
- **Double pressure transducer on the inner ram** to make the functioning of the lifting moment limiting device more precise and more accurate.
- **Single power supply box** to make the electric connections easier during the installation.
- **22 t** swivel hook.

SYSTEM WITH FIXED PULLEYS



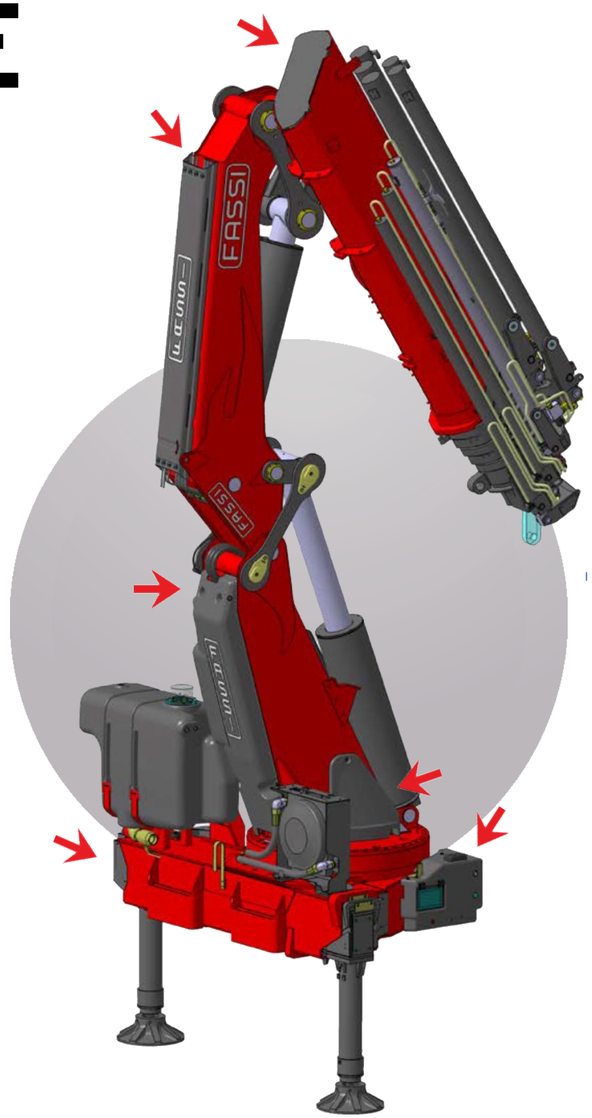
Crane folded in transport position
with pulleys and jib installed



NEW PROTECTIVE CARTERS



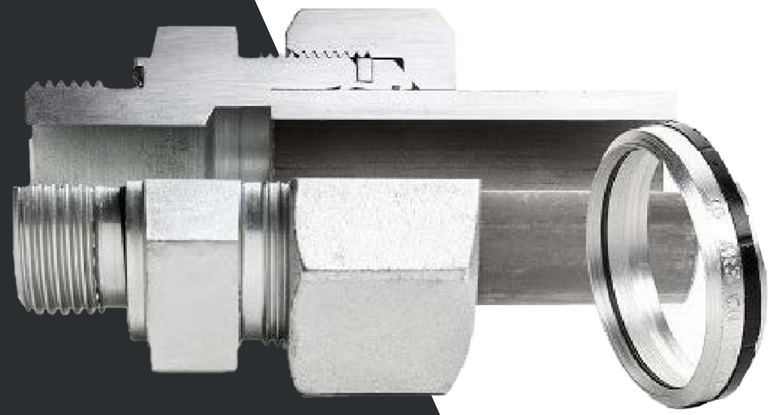
- **New carter on the inner boom**

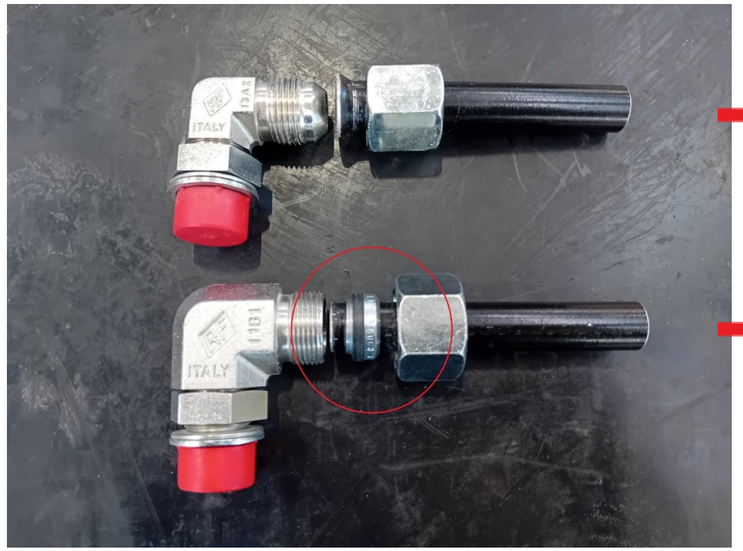



TECHNO
FASSI

NEW COUPLINGS

Designed for the pipes of the extension rams





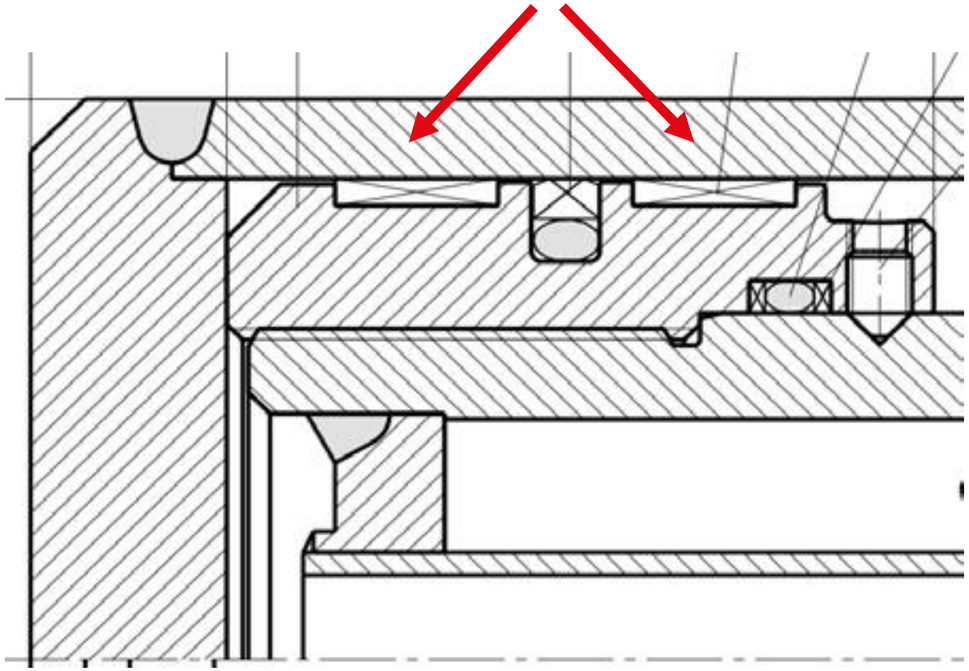
OLD TYPE (JIC)

NEW TYPE (DIN)

Better resistance to hydraulic and dynamic stresses

NEW DESIGN FOR THE HYDRAULIC PISTONS

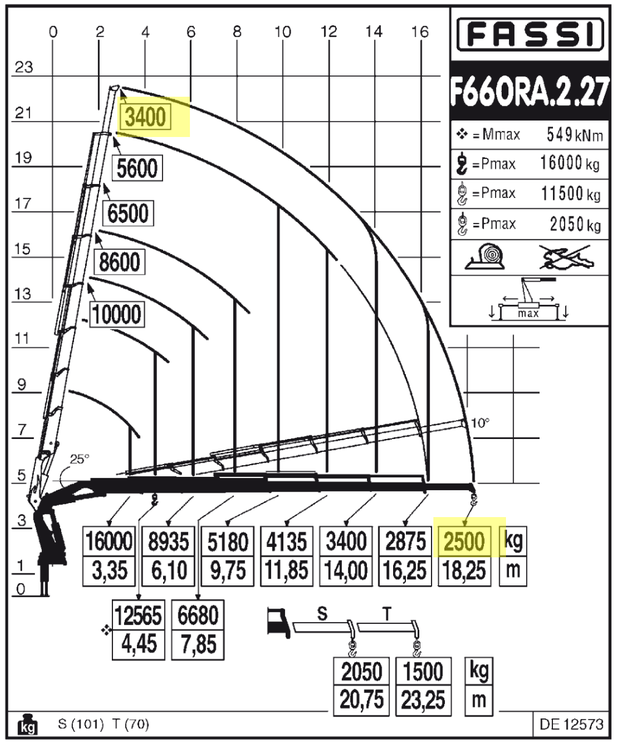
Piston section: new oversized guide rings



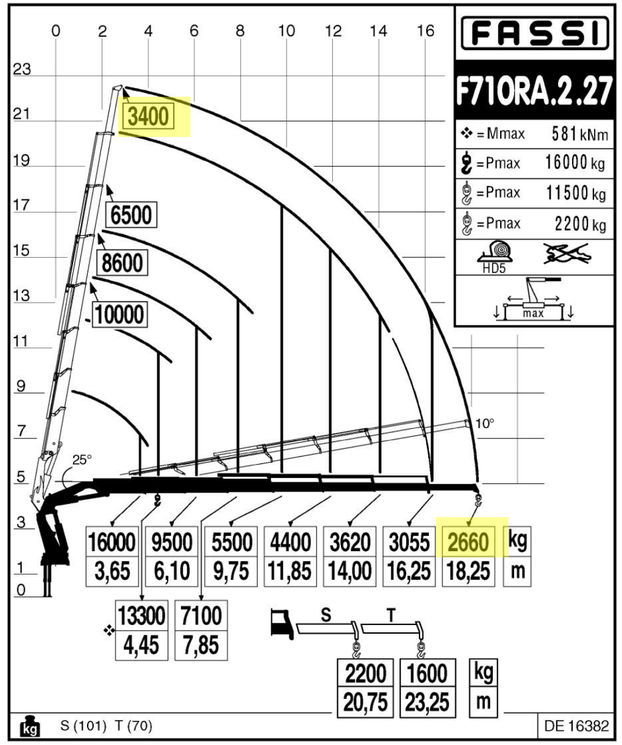
Bigger supporting surface during the stresses generated by the loads.

COMPARISON

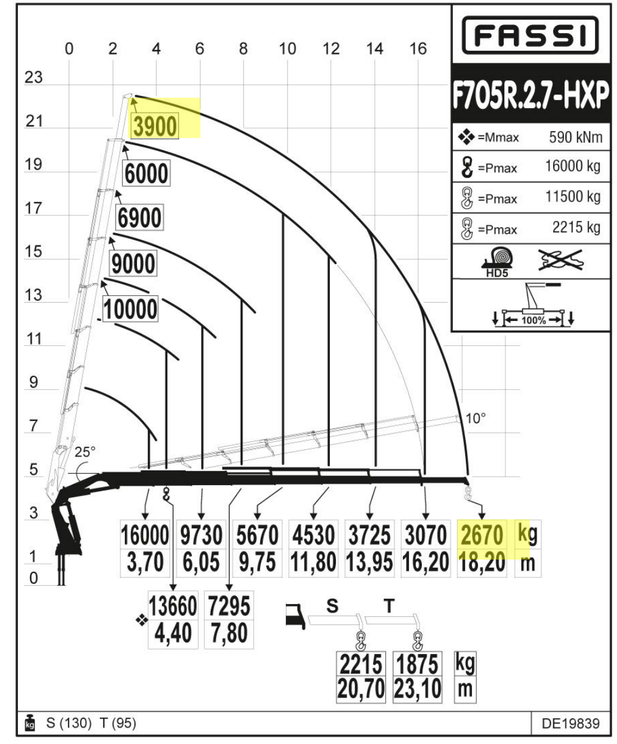
F660RA.2.27



F710RA.2.27

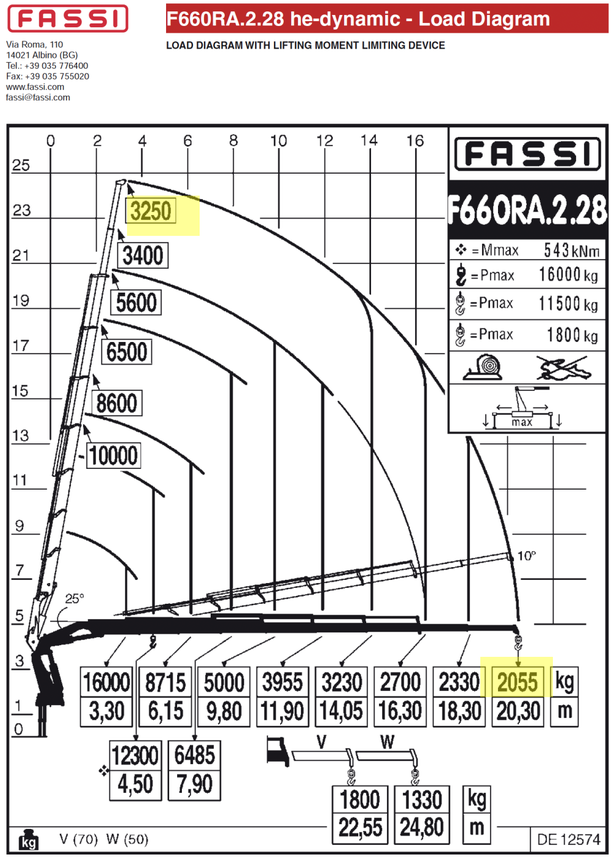


F705R.2.7-HXP

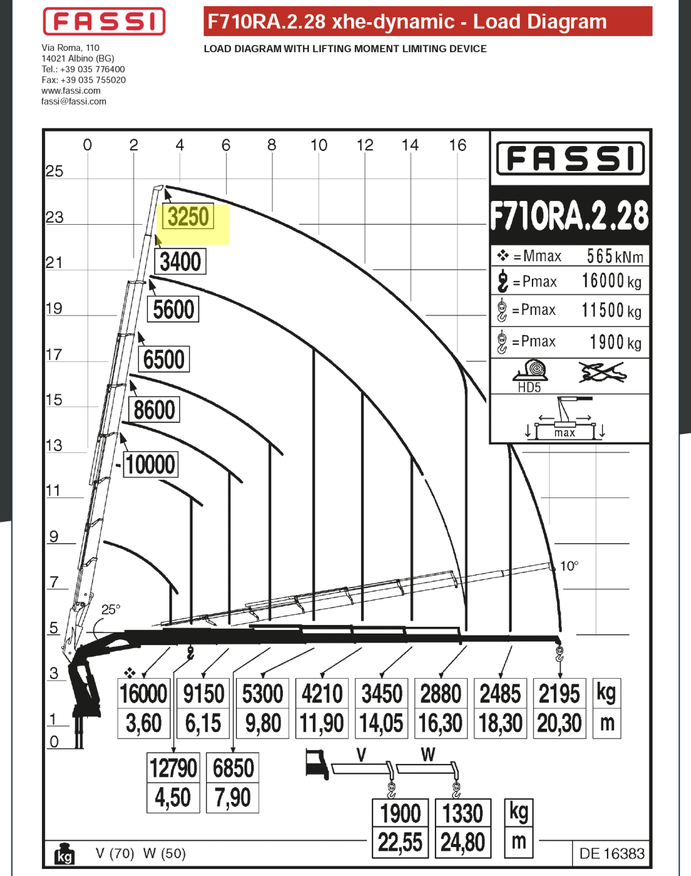


COMPARISON

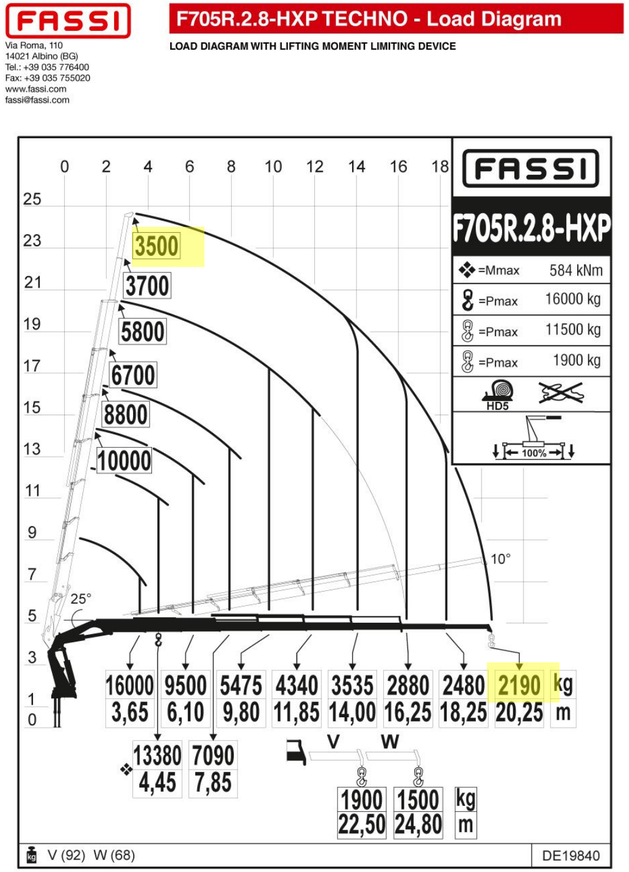
F660RA.2.28



F710RA.2.28

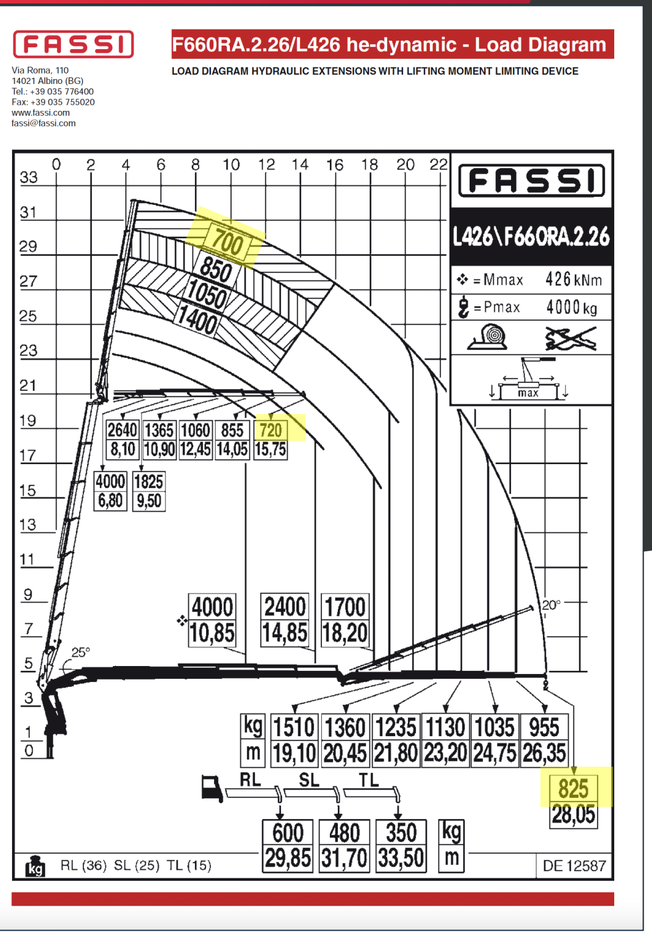


F705R.2.8-HXP

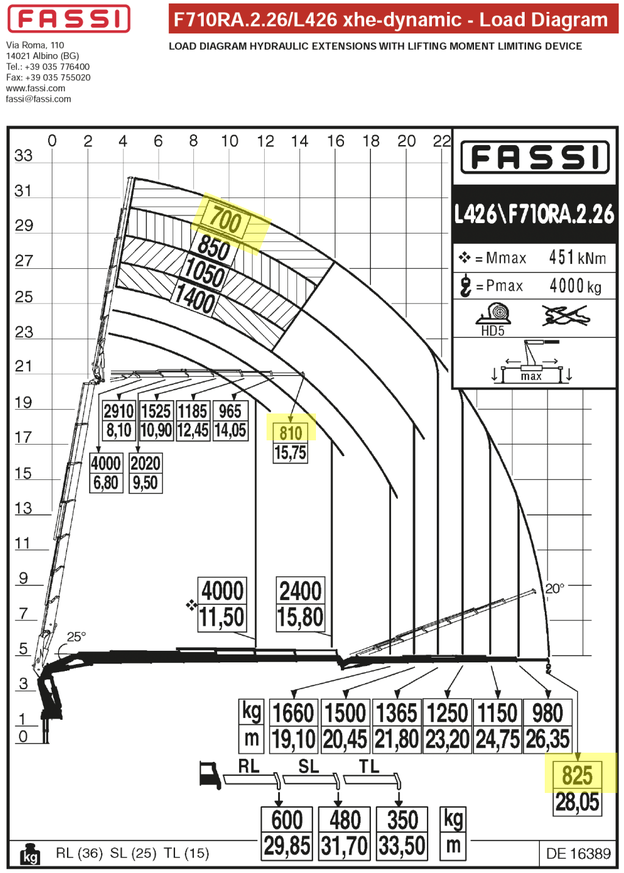


COMPARISON

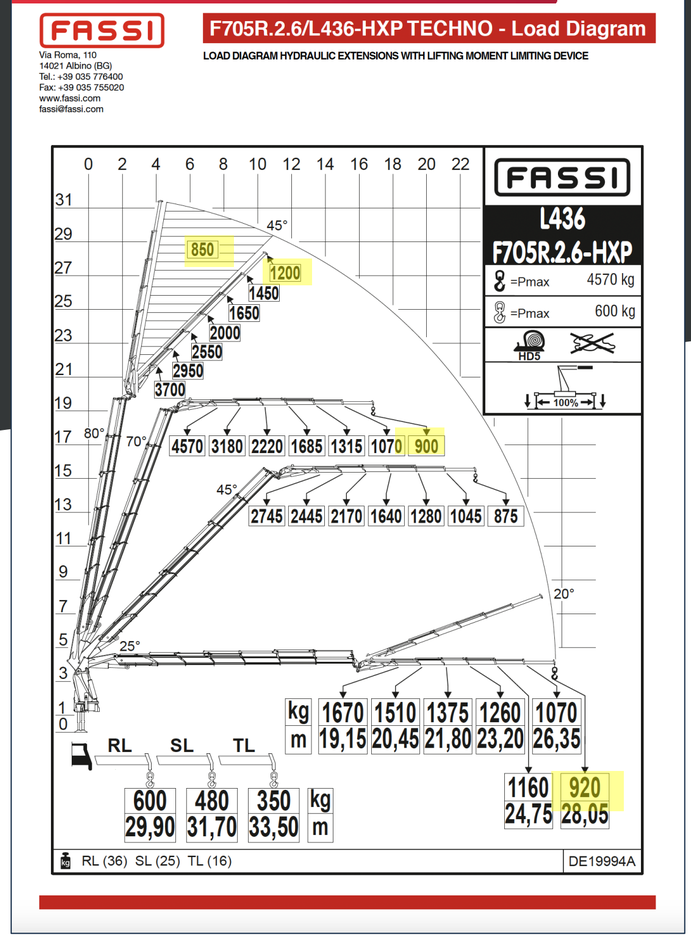
F660RA. 2.26/L426



F710RA.2.26/L426

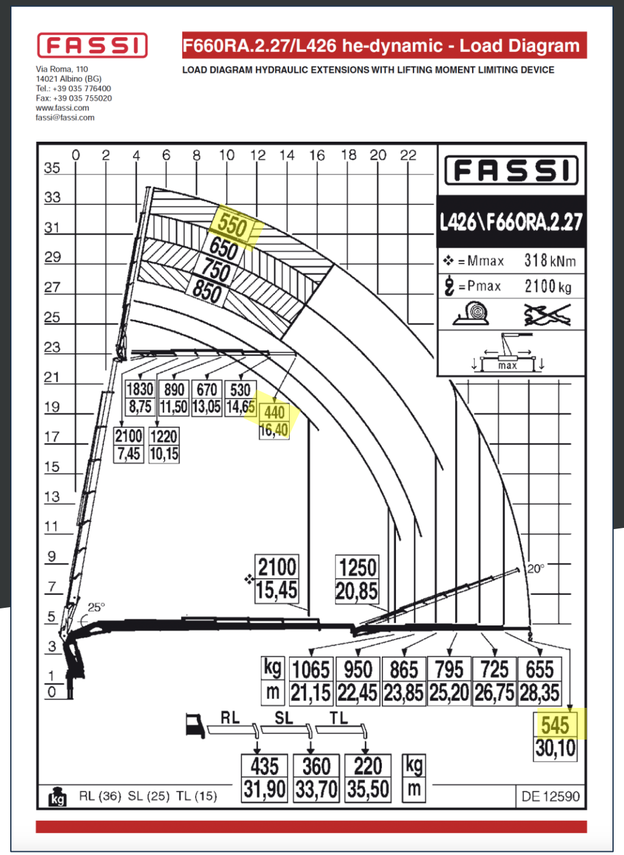


F705R.2.6 /L436 -HXP

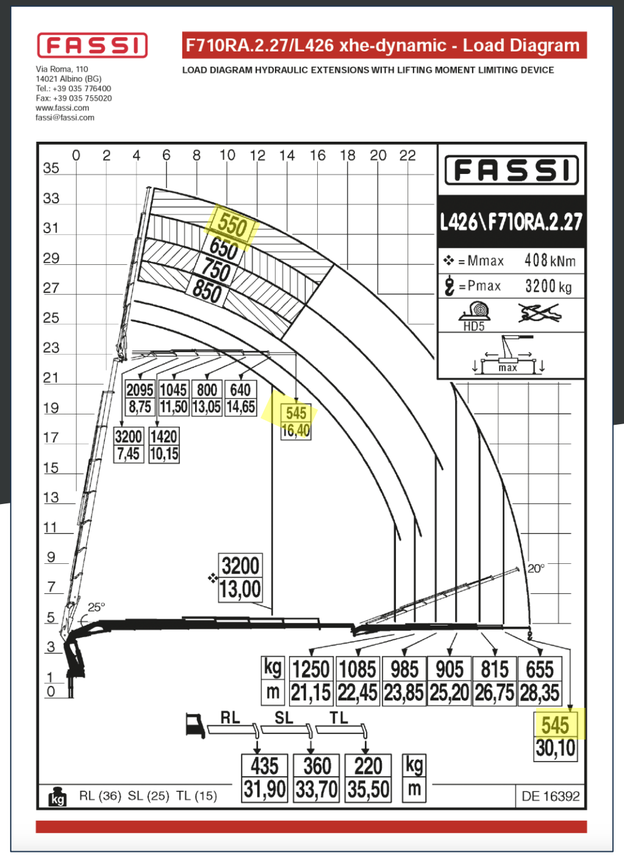


COMPARISON

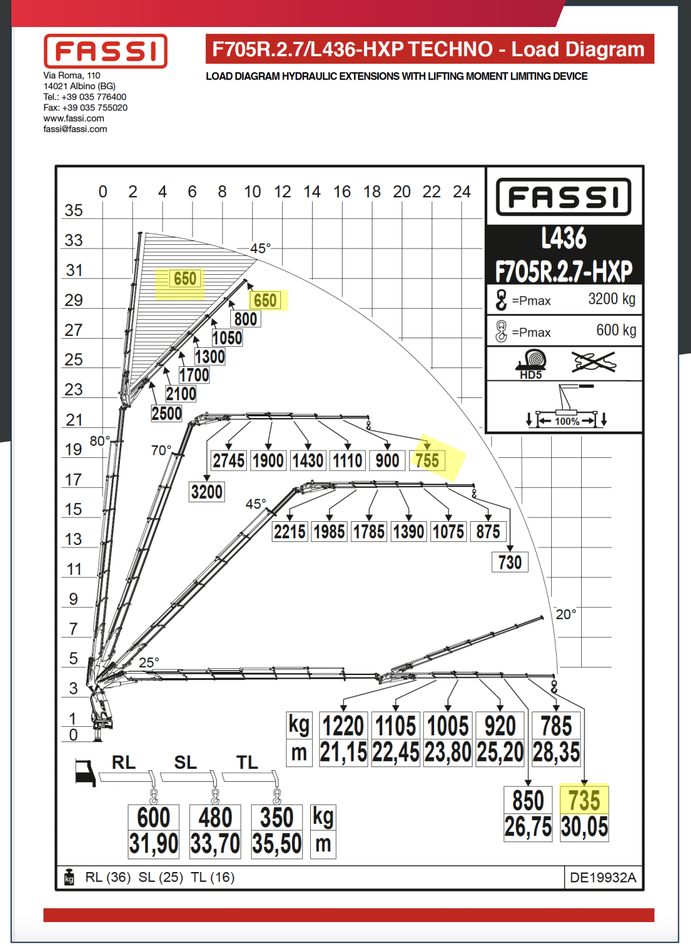
F660RA. 2.27/L426



F710RA.2.27/L426

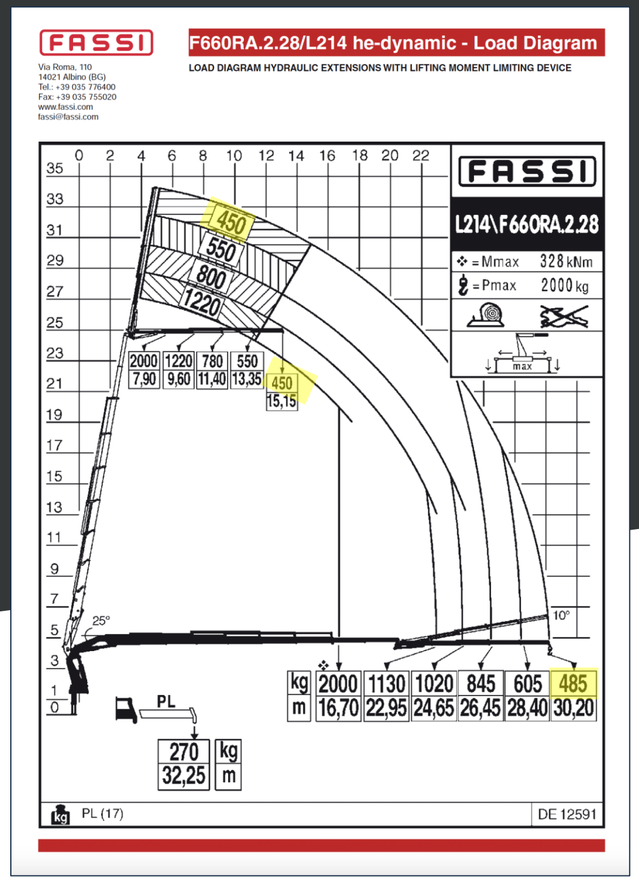


F705R.2.7 /L436 -HXP

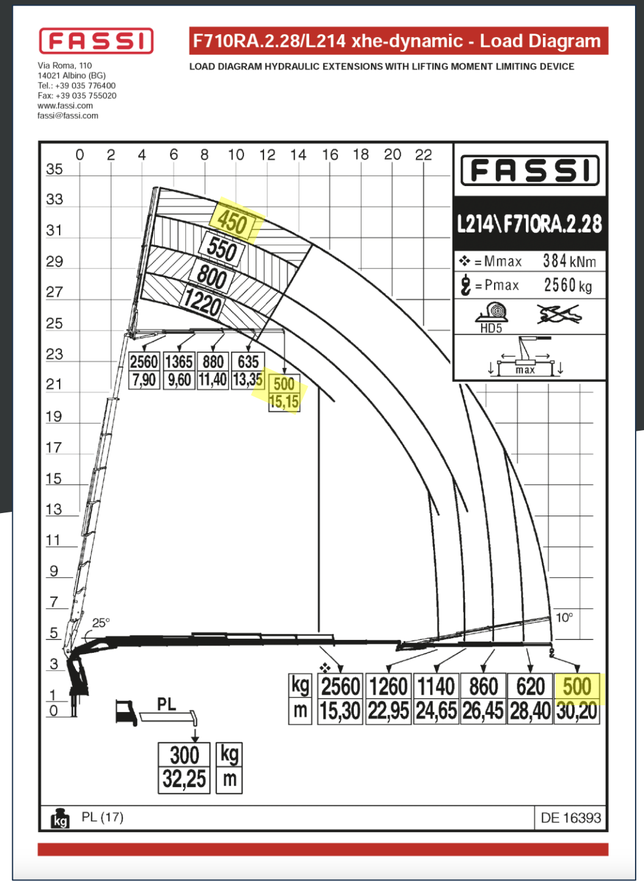


COMPARISON

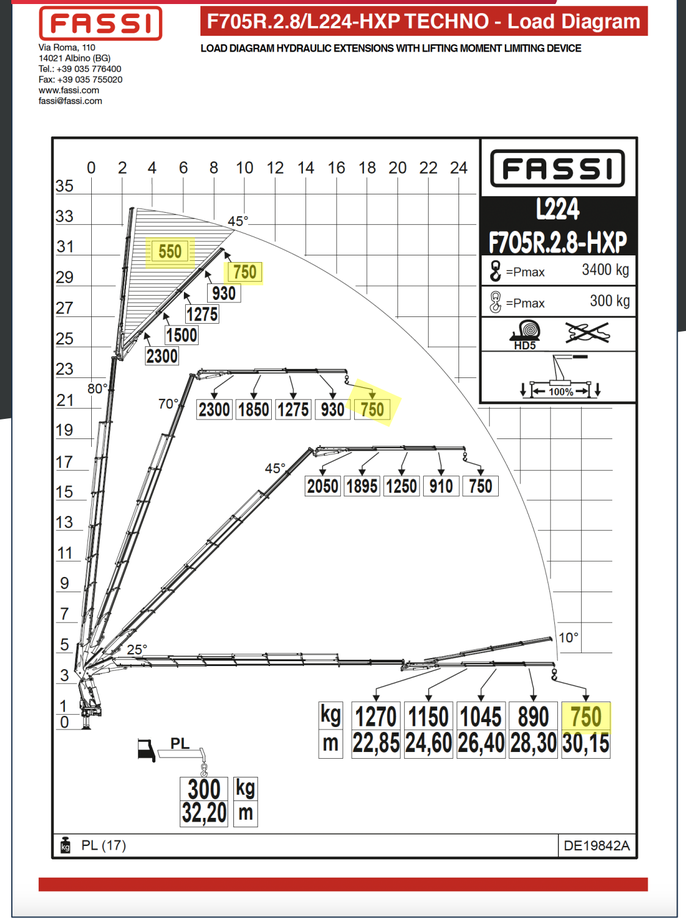
F660RA. 2.28/L426



F710RA.2.28/L214



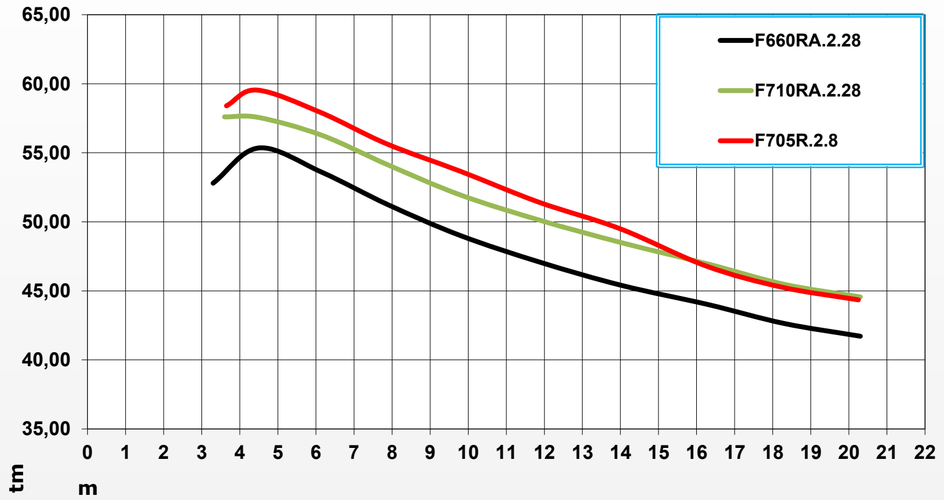
F705R.2.8 /L224 -HXP



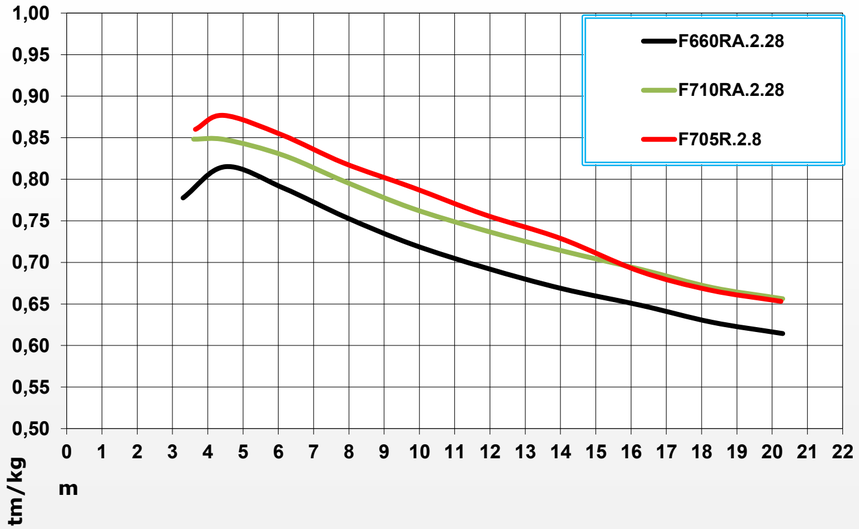
FASSI

COMPARISON

TM



TM /kg



FASSI

COMPARISON WITH COMPETITORS

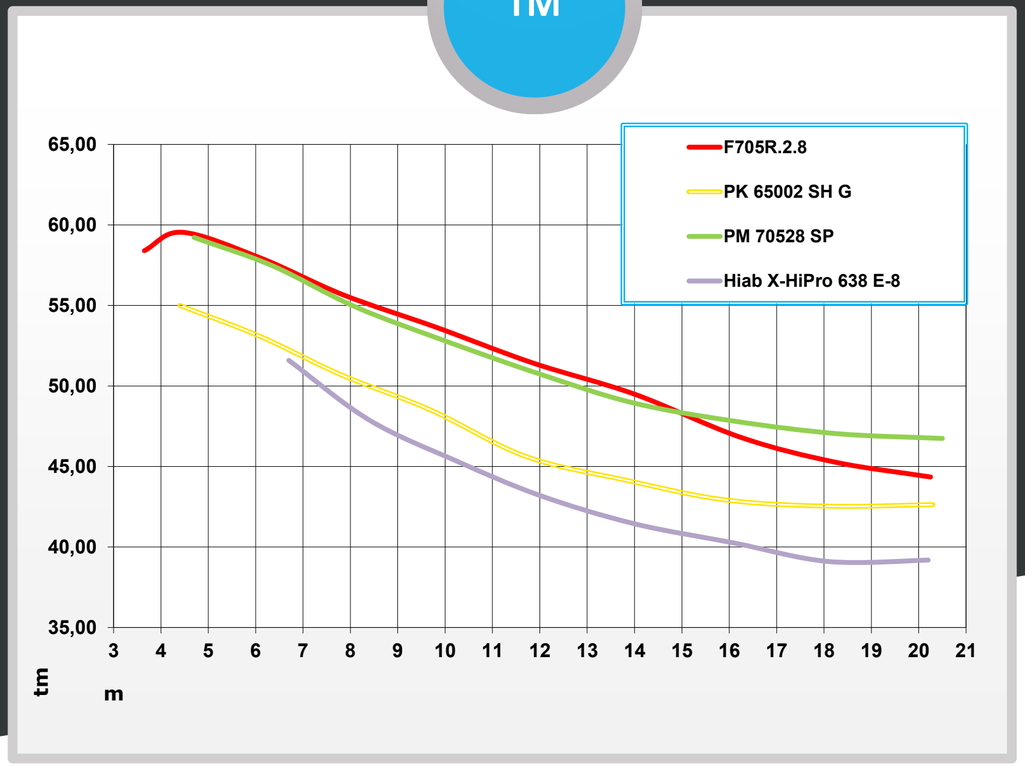
FASSI
F705R.2.8

PALFINGER
PK 65002 SH G

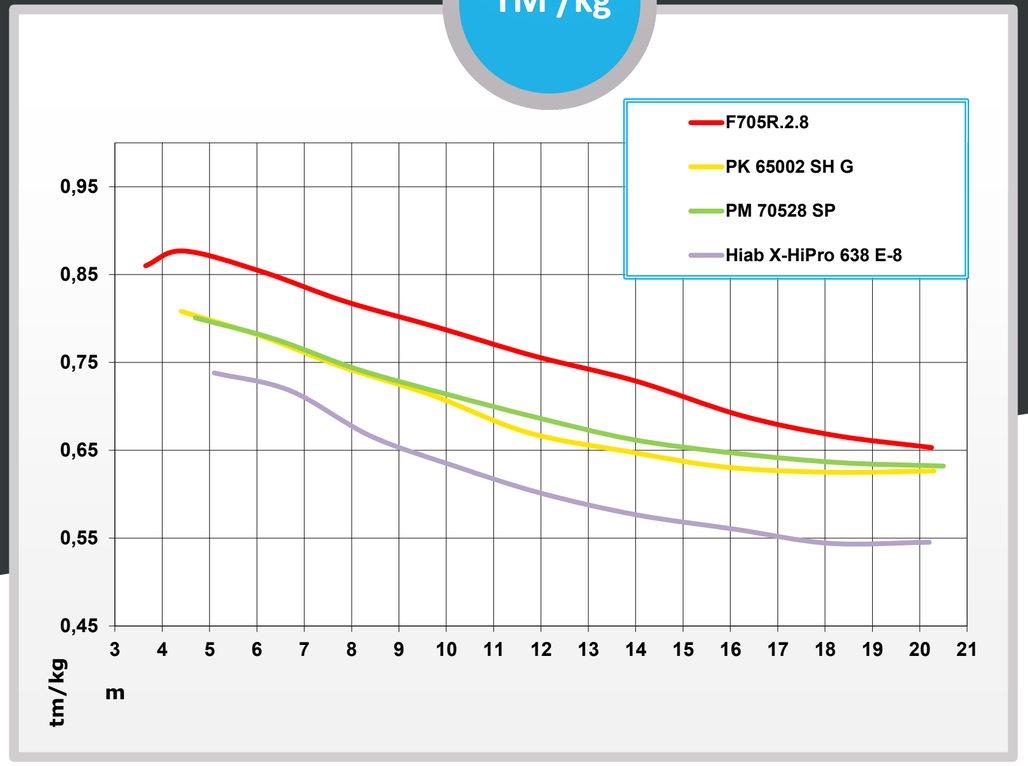
PM
PM 70528 SP

HIAB
X-HiPro 638 E-8*

TM



TM /kg



* X-HiPro 658 not available with 8 extensions (max 6)

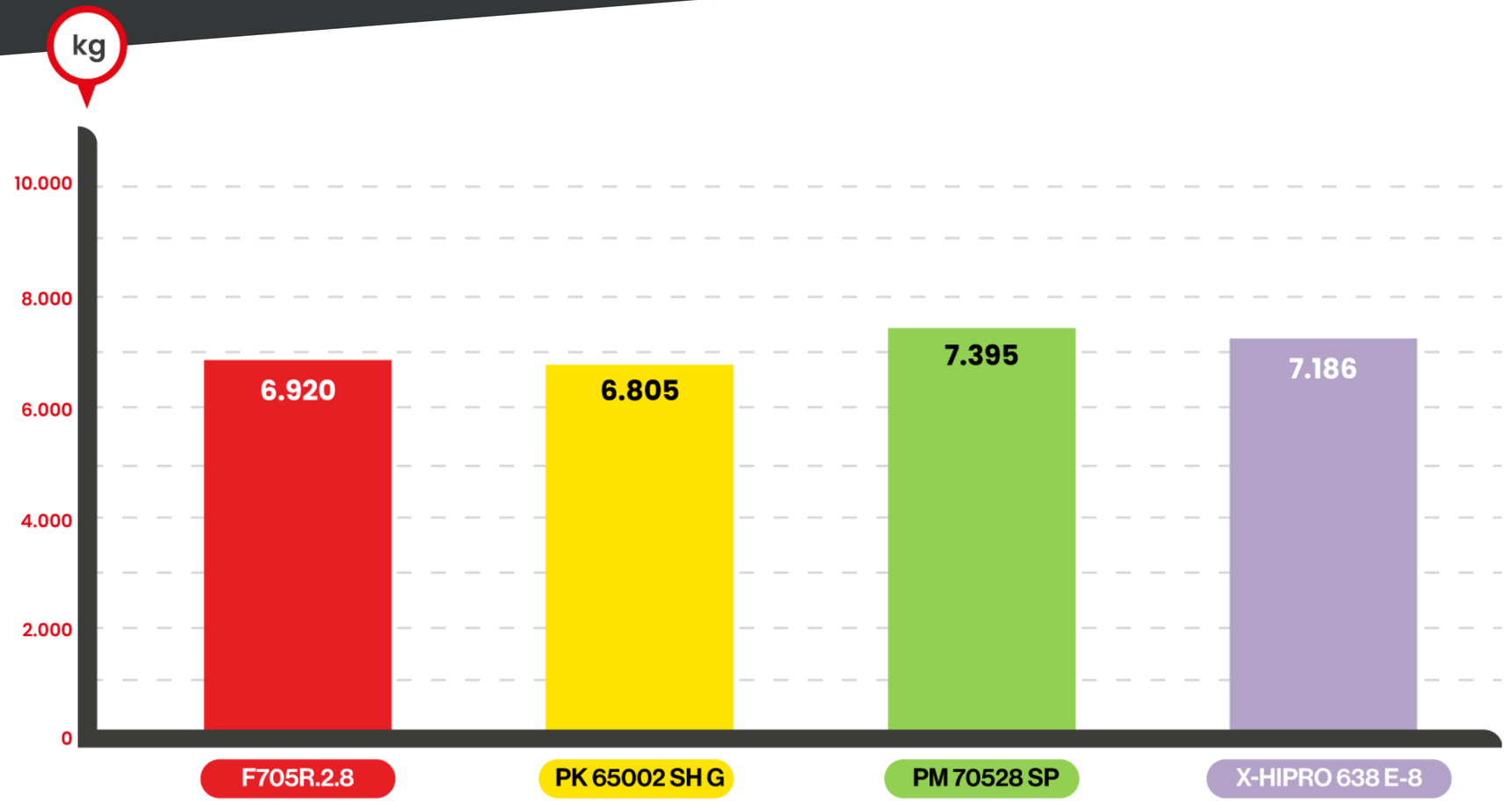
COMPARISON WITH COMPETITORS

FASSI
F705R.2.8

PALFINGER
PK 65002 SH G

PM
PM 70528 SP

HIAB
X-HiPro 638 E-8*

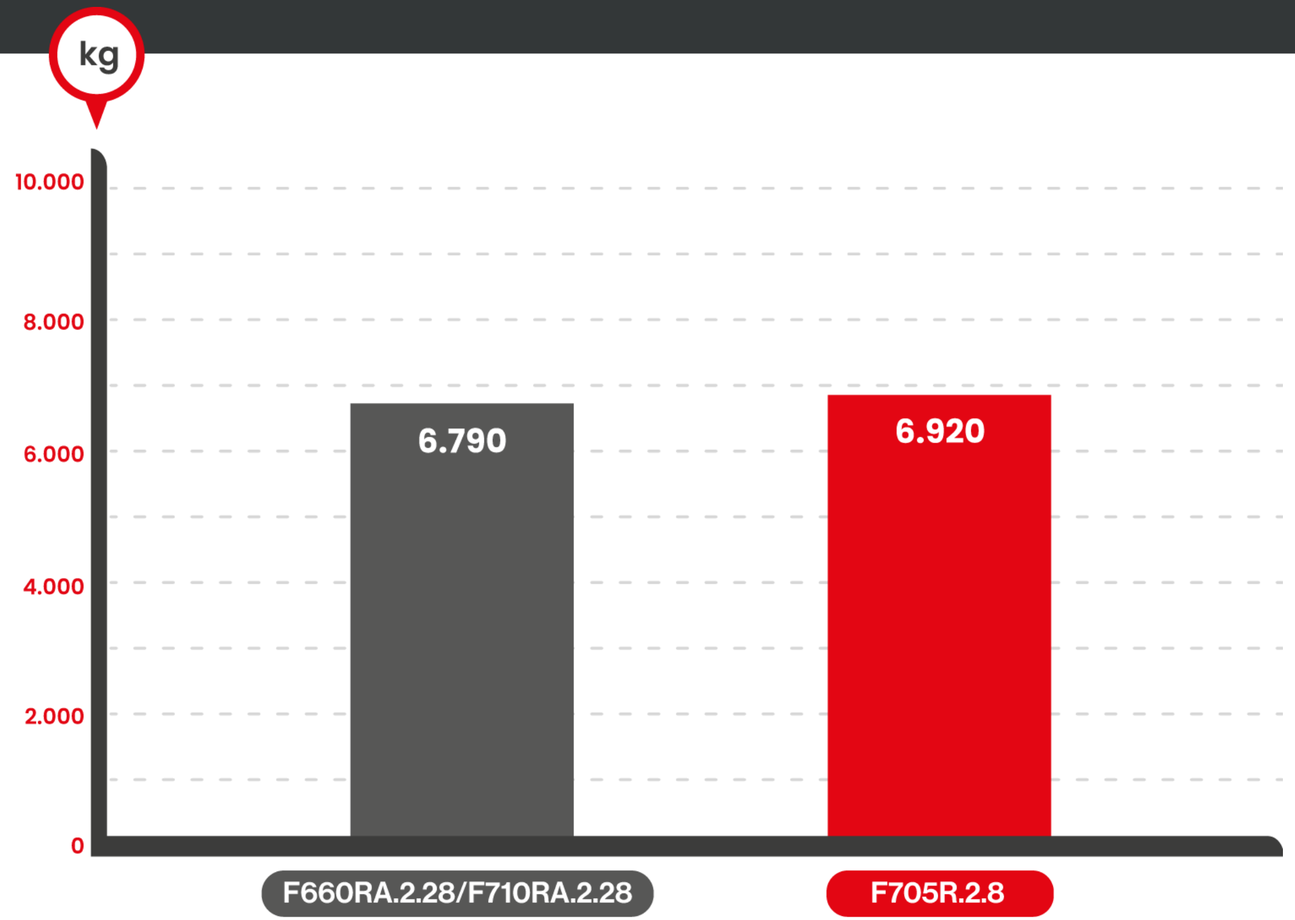


* X-HiPro 658 not available with 8 extensions (max 6)

FASSI

COMPARISON

F660RA. 2.28
F710RA. 2.28



F705R. 2..8 - HXP

FASSI

COMPARISON WITH COMPETITORS

FASSI

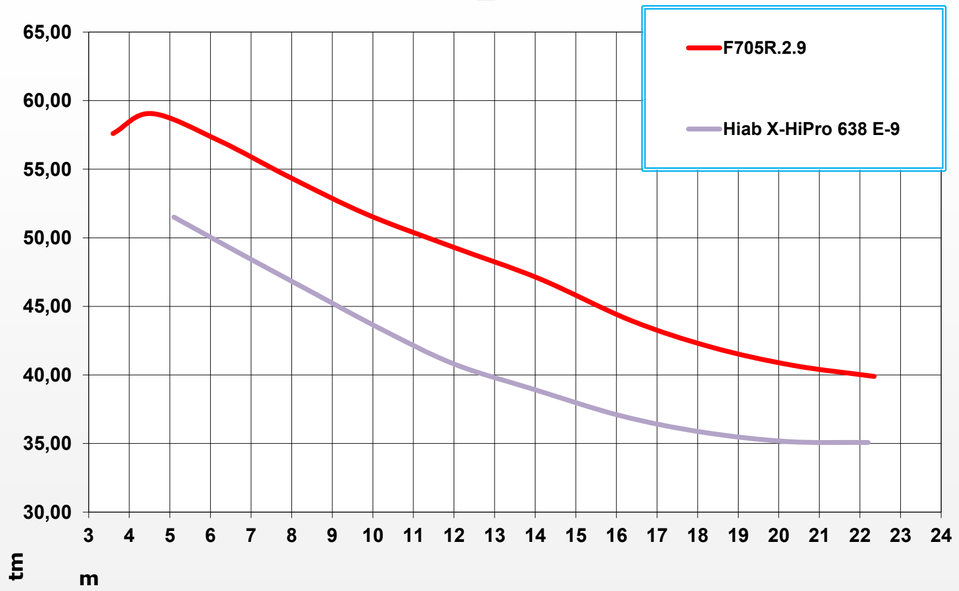
F705R.2.9

HIAB

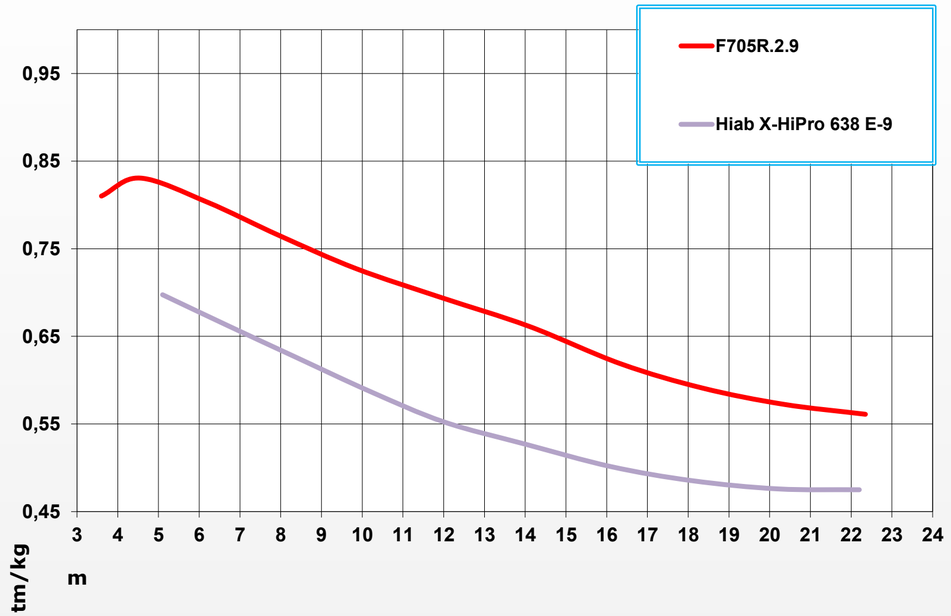
X-HiPro 638 E-9

Crane data PK 65002 SH
not available

TM



TM /kg



COMPARISON WITH COMPETITORS

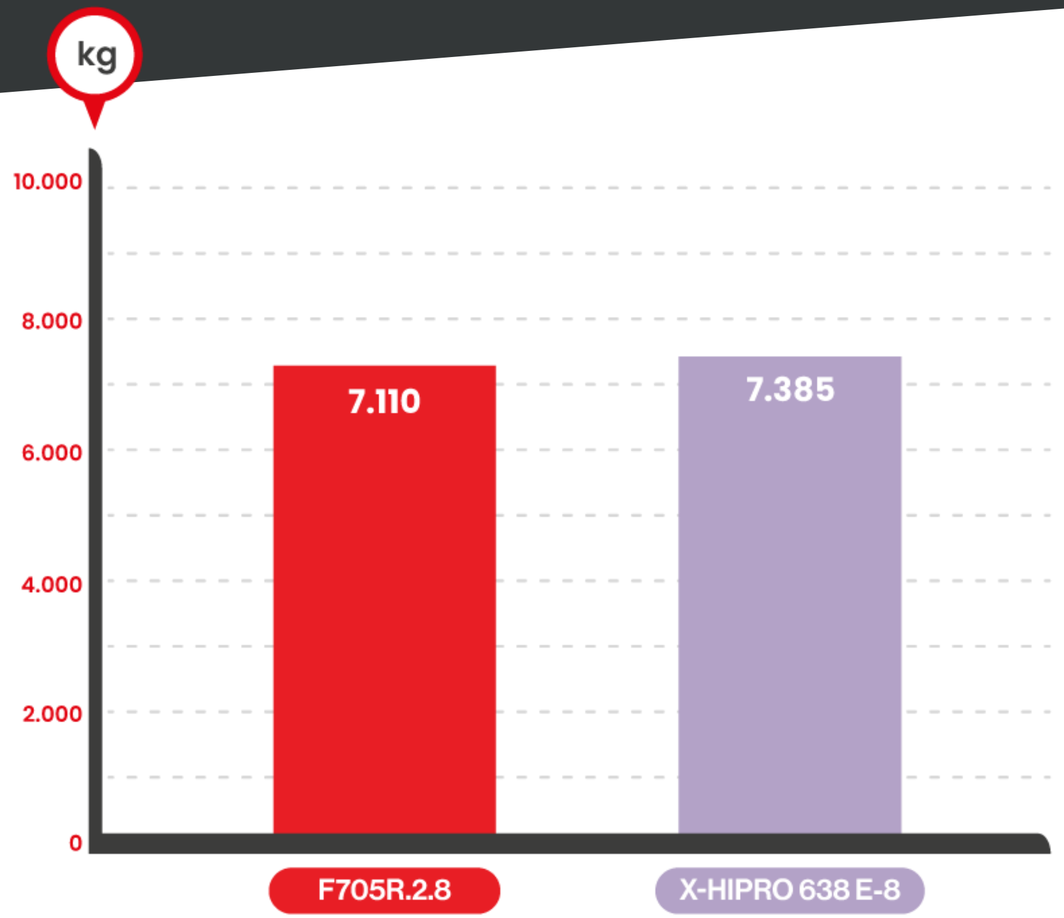
FASSI

F705R.2.9

HIAB

X-HiPro 638 E9

Crane data PK 65002 SH not available



CLASSIFICATION

S-CLASSIFICATION



FASSI

TECHNO

F705R.2 HXP

HD5/S2

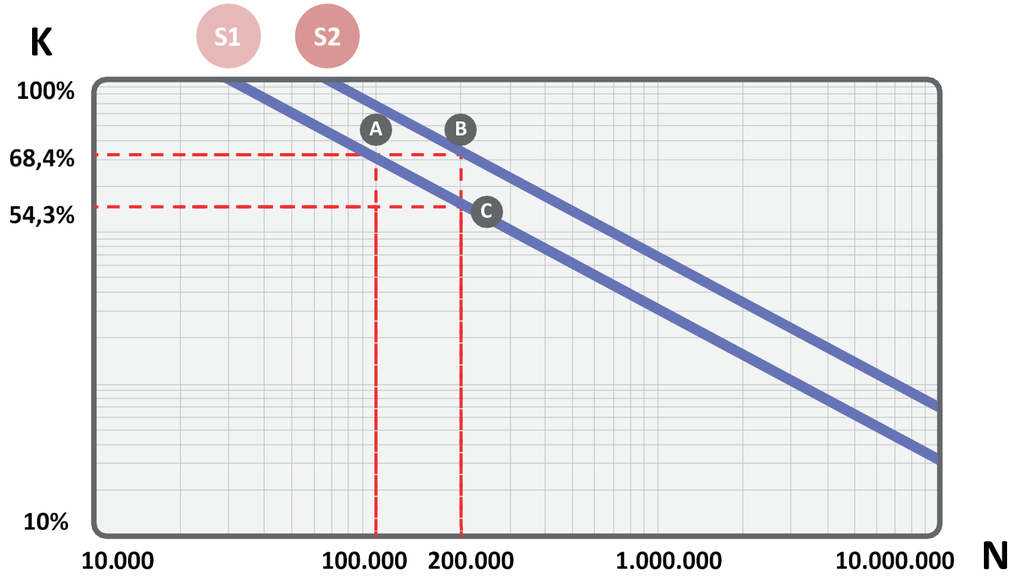
FASSI

CLASSIFICATION ACCORDING TO THE EUROPEAN STANDARD EN12999

HC1 HD5 S2

INTENSITY OF USE

DUTY TYPE	Very light	Moderate	Intensive
Hook brick & block	S_0	S_1	S_2



K = stress related to crane lifting capacity

N = number of cycles

FASSI

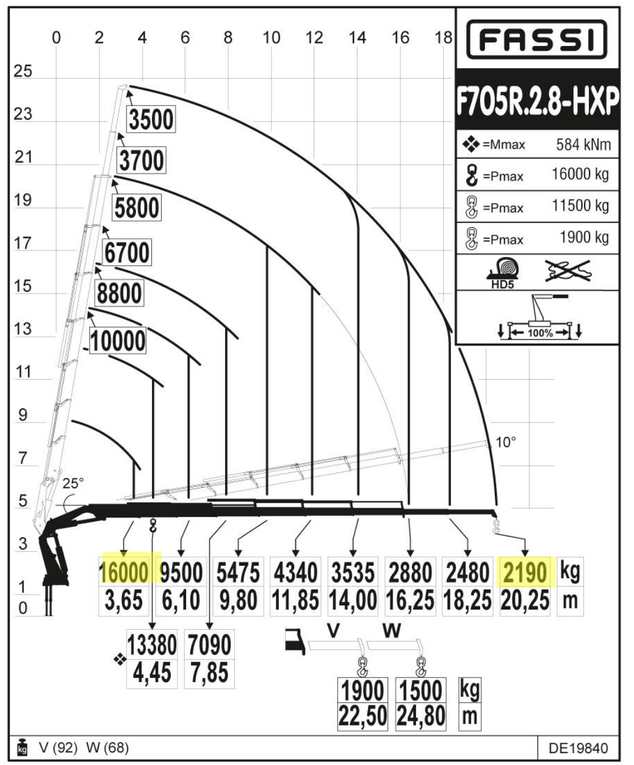
COMPARISON WITH COMPETITORS

F705R.2.8-HXP

FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

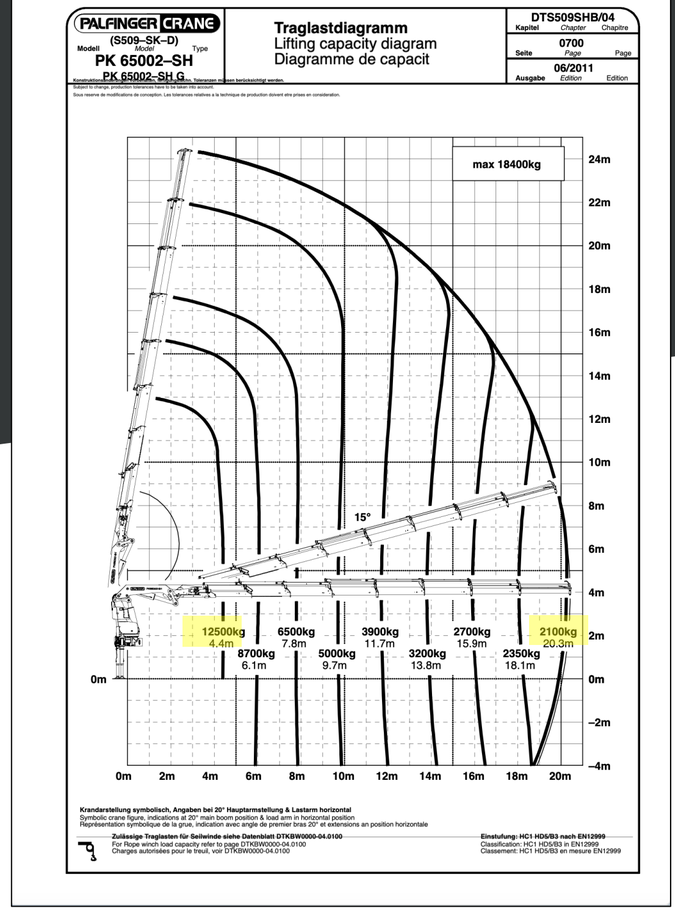
F705R.2.8-HXP TECHNO - Load Diagram

LOAD DIAGRAM WITH LIFTING MOMENT LIMITING DEVICE



PK 65002 SH G

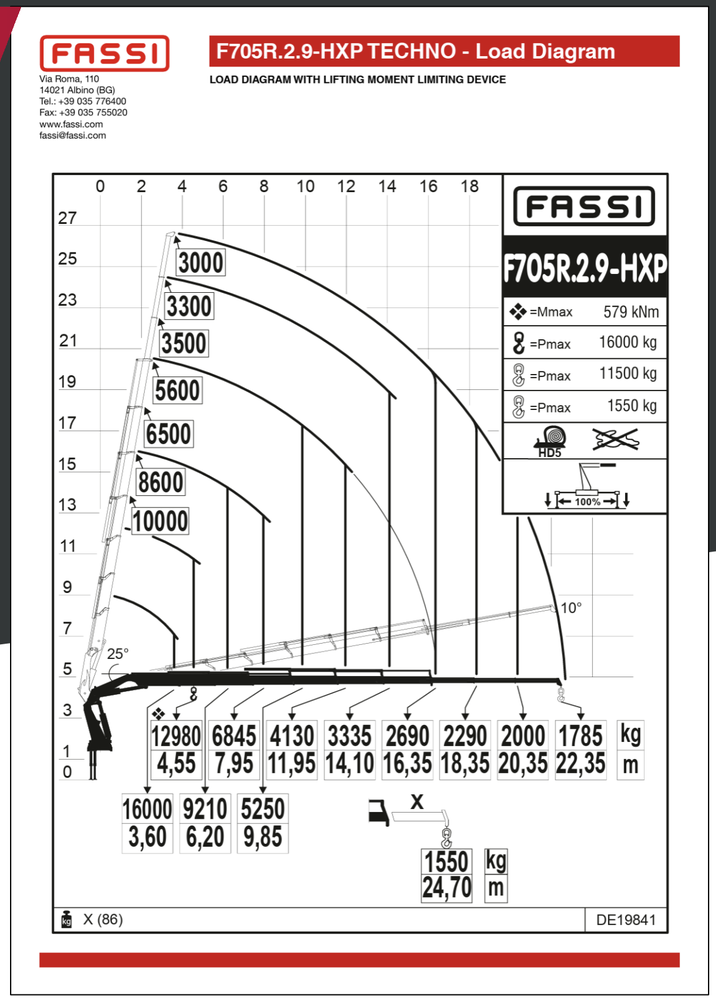
PALFINGER



FASSI

COMPARISON WITH COMPETITORS

F705R.2.9-HXP



NOT AVAILABLE

PALFINGER

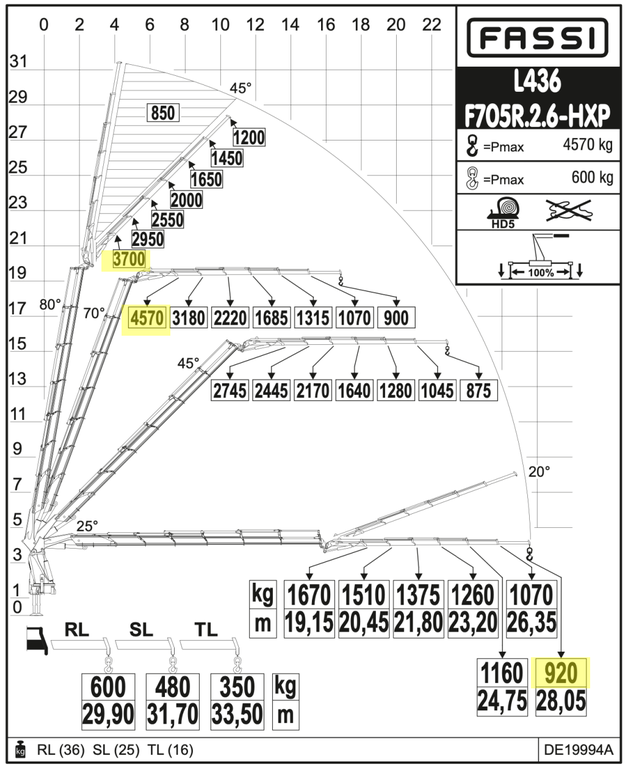
COMPARISON WITH COMPETITORS

F705R.2.6/L436-HXP

FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

F705R.2.6/L436-HXP TECHNO - Load Diagram

LOAD DIAGRAM HYDRAULIC EXTENSIONS WITH LIFTING MOMENT LIMITING DEVICE



PK 65002-SH E PJ125E

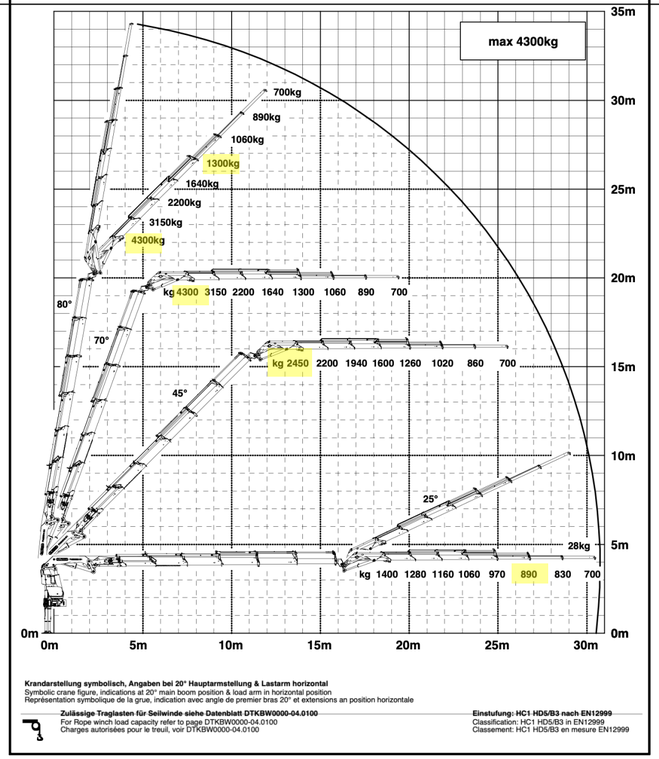
PALFINGER

PALFINGER CRANE
(S509–SK–D)
Modell Model Type
PK 65002–SH
PK 65002–SH E PJ 125 F JV1

Traglastdiagramm
Lifting capacity diagram
Diagramme de capacit

DTS509SHB/04
Kapitel Chapter Chapitre
1400
Seite Page Page
06/2011
Ausgabe Edition Edition

Subject to change, production tolerances have to be taken into account.
Sous reserve de modifications de conception. Les tolerances relatives à la technique de production doivent etre prises en consideration.



Krandarstellung symbolisch, Angaben bei 20° Hauptarmstellung & Lastarm horizontal
Symbolic crane figure, indications at 20° main boom position & load arm in horizontal position
Représentation symbolique de la grue, indication avec angle de premier bras 20° et extensions an position horizontale

Zulässige Traglasten für Seilwinde siehe Datenblatt DTKBW0000-04.0100
For Rope winch load capacity refer to page DTKBW0000-04.0100
Charges autorisées pour le treuil, voir DTKBW0000-04.0100

Einstufung: HC1 HD5/B3 nach EN12999
Classification: HC1 HD5/B3 in EN12999
Classement: HC1 HD5/B3 en mesure EN12999

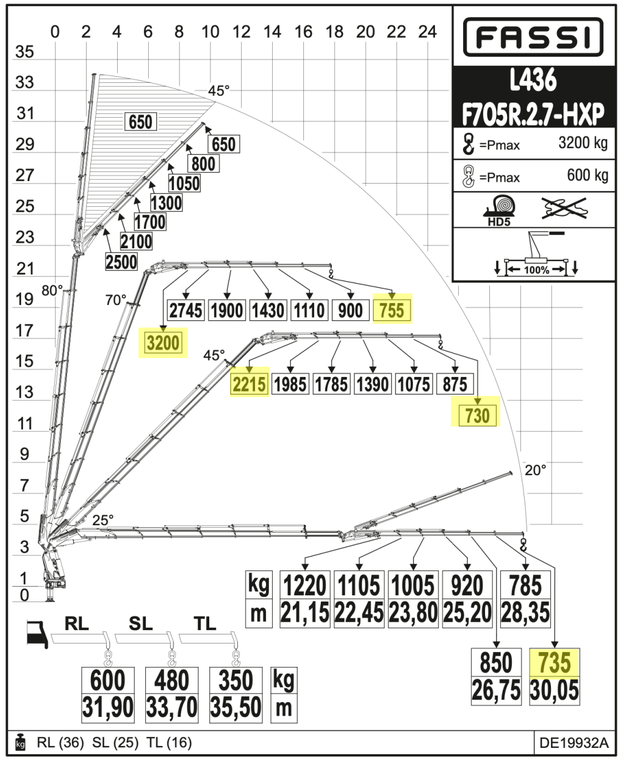
COMPARISON WITH COMPETITORS

F705R.2.7/L436-HXP

FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

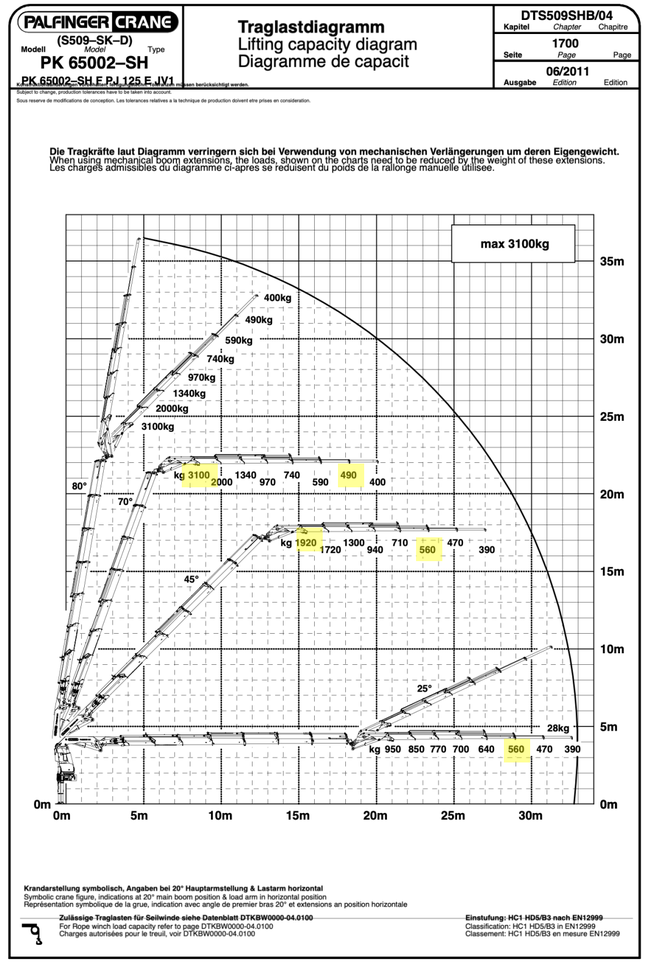
F705R.2.7/L436-HXP TECHNO - Load Diagram

LOAD DIAGRAM HYDRAULIC EXTENSIONS WITH LIFTING MOMENT LIMITING DEVICE



PK 65002-SH F PJ125E

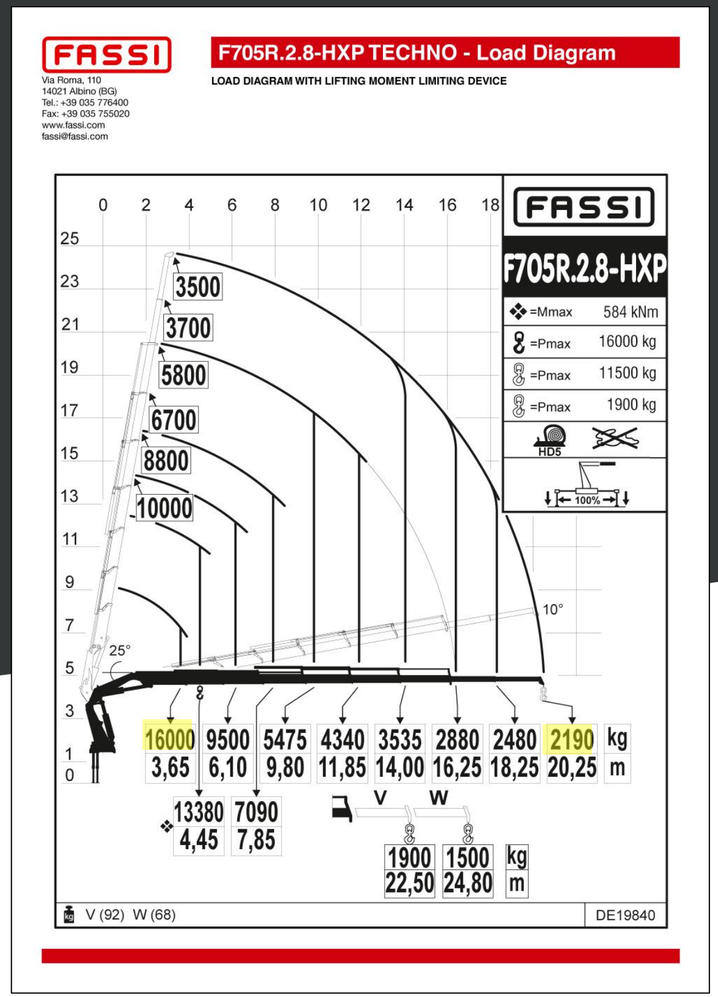
PALFINGER

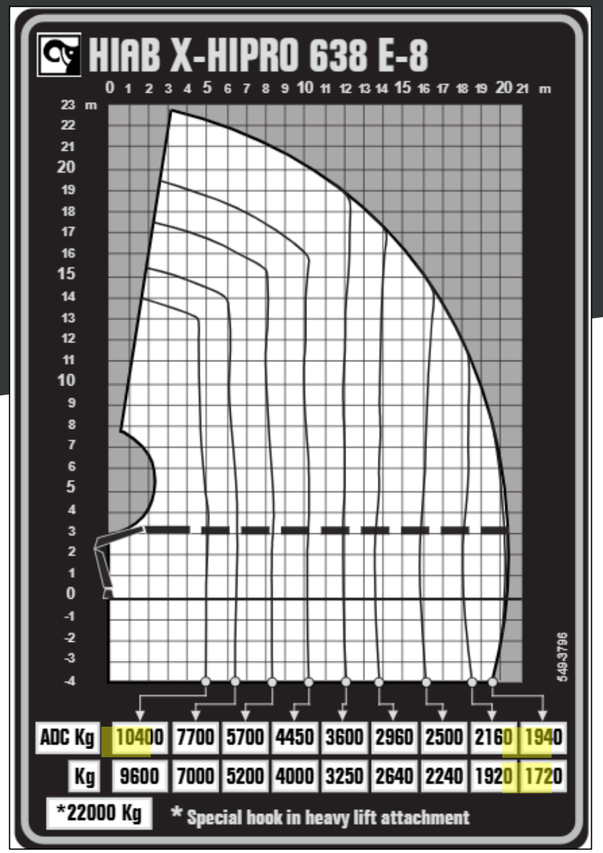


FASSI

COMPARISON WITH COMPETITORS

F705R.2.8-HXP





HIAB X-HIPRO 638 E-8

HIAB

FASSI

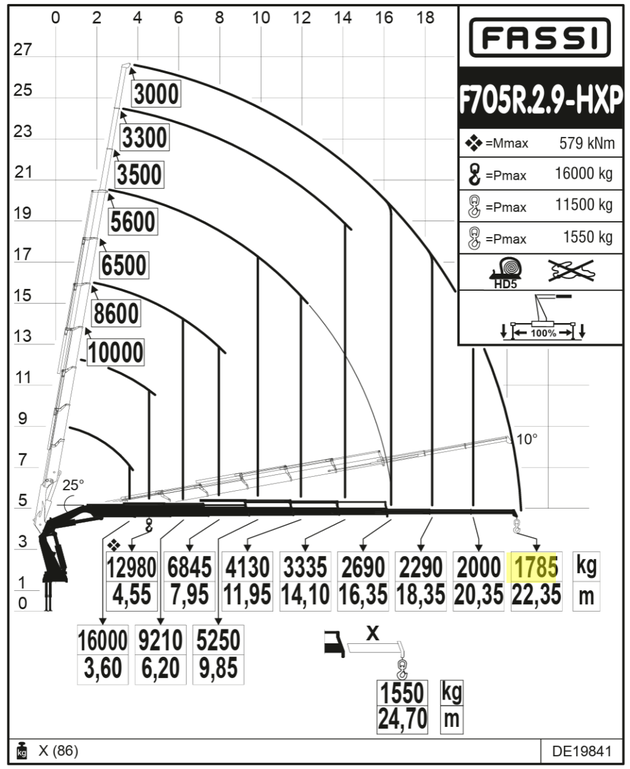
COMPARISON WITH COMPETITORS

F705R.2.9-HXP

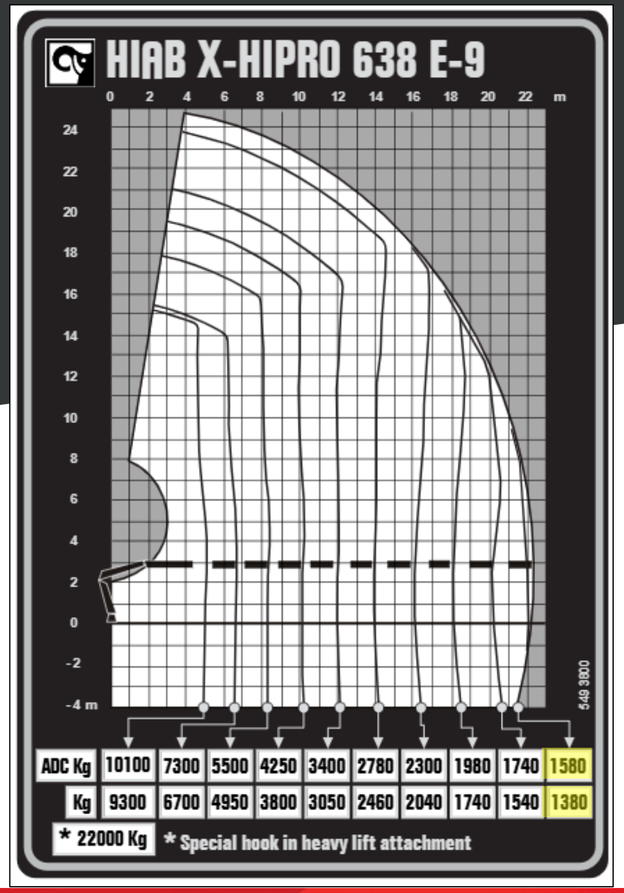
FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

F705R.2.9-HXP TECHNO - Load Diagram

LOAD DIAGRAM WITH LIFTING MOMENT LIMITING DEVICE



HIAB X-HIPRO 638 E-9



HIAB

FASSI

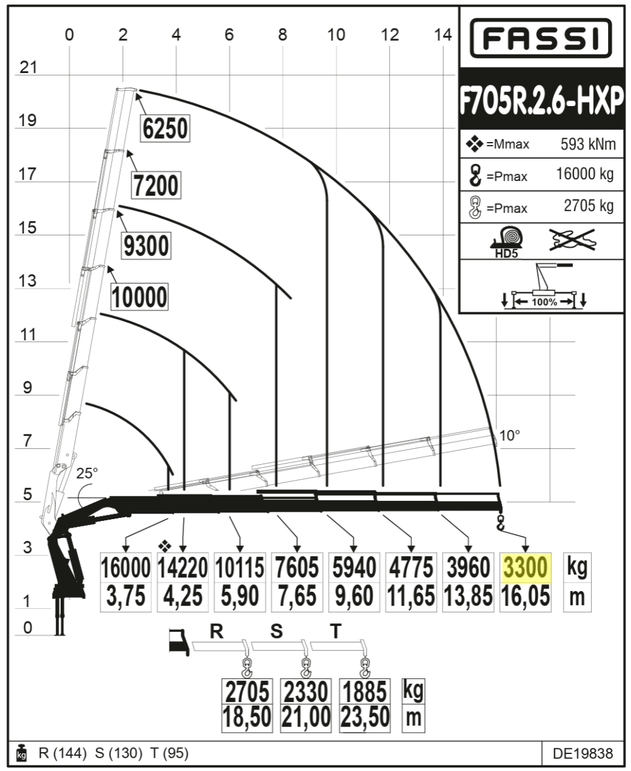
COMPARISON WITH COMPETITORS

F705R.2.6-HXP

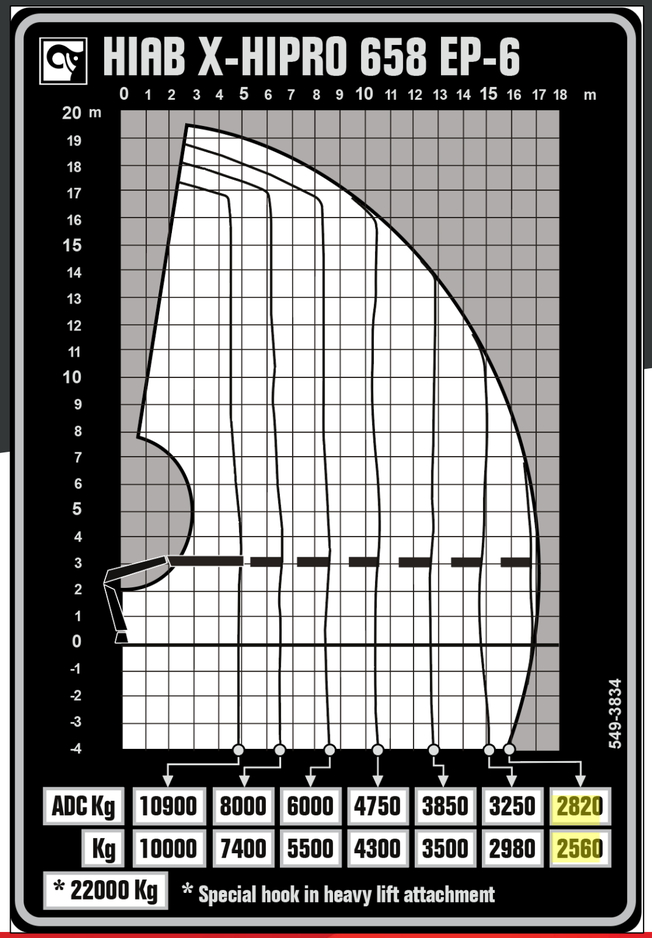
FASSI
Via Roma, 110
14021 Albino (BG)
Tel.: +39 035 776400
Fax: +39 035 755020
www.fassi.com
fassi@fassi.com

F705R.2.6-HXP TECHNO - Load Diagram

LOAD DIAGRAM WITH LIFTING MOMENT LIMITING DEVICE



HIAB X-HIPRO 658 EP-6*



* X-HiPro 658 not available with 8 extensions (max 6)

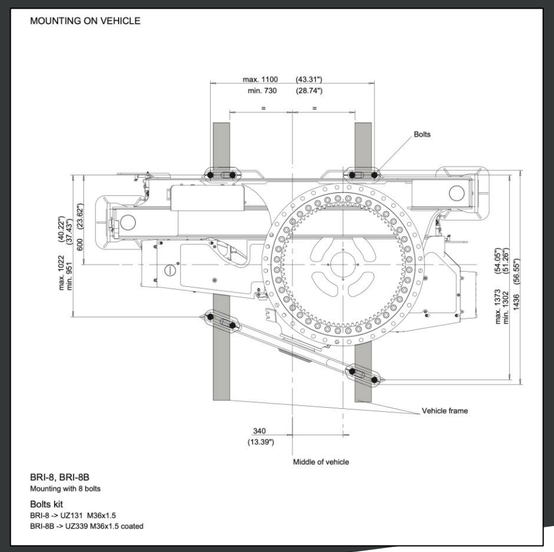
FASSI

COMPARISON WITH COMPETITORS

DIMENSIONS

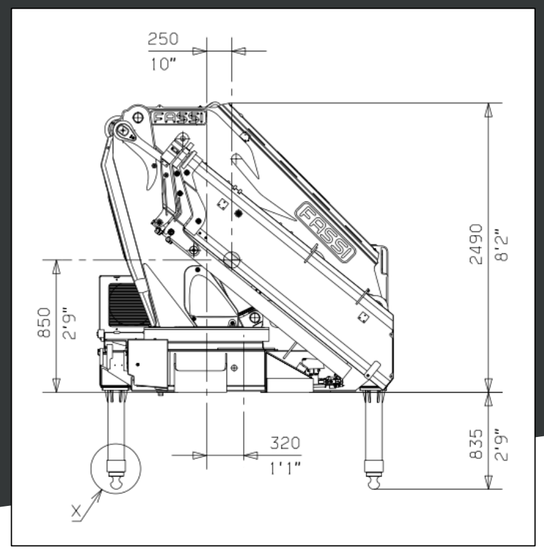
PK base PALFINGER

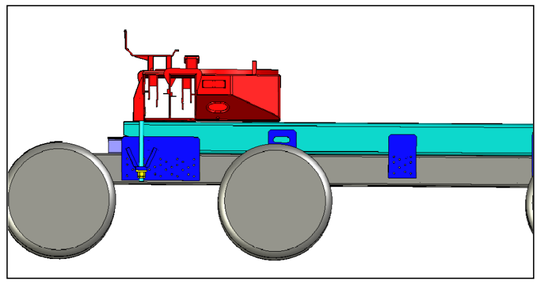
with pendulum
Beam - **integrated subframe not possible**

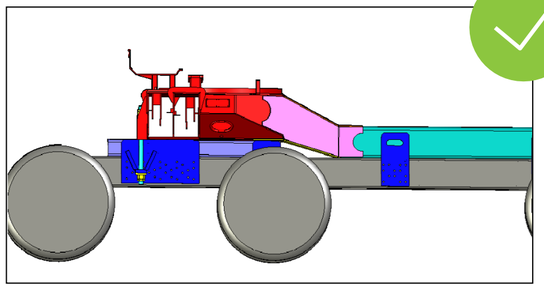


Fassi crane base

prepared for **integrated subframe** installation





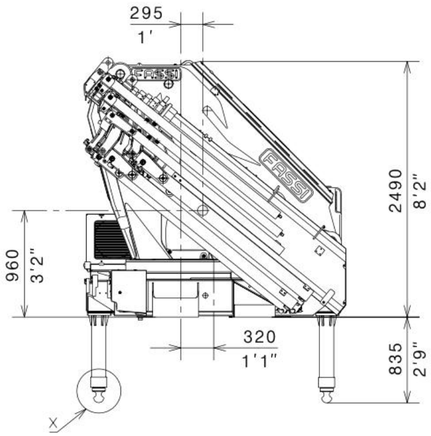


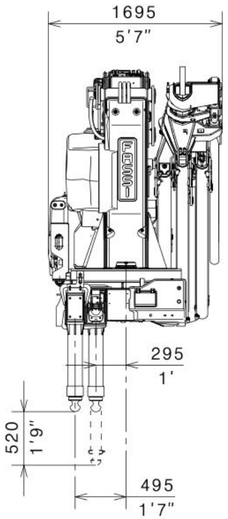
DIMENSIONS

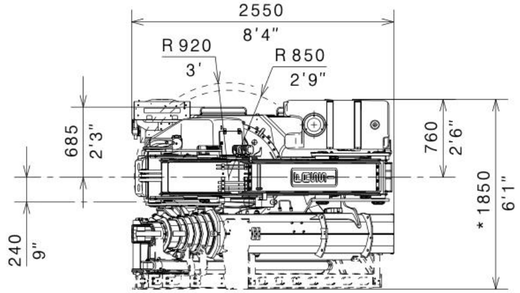
STANDARD BASE

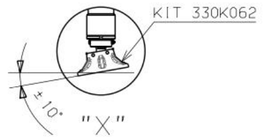
F705R.2.9-HXP

PK 65002-SH

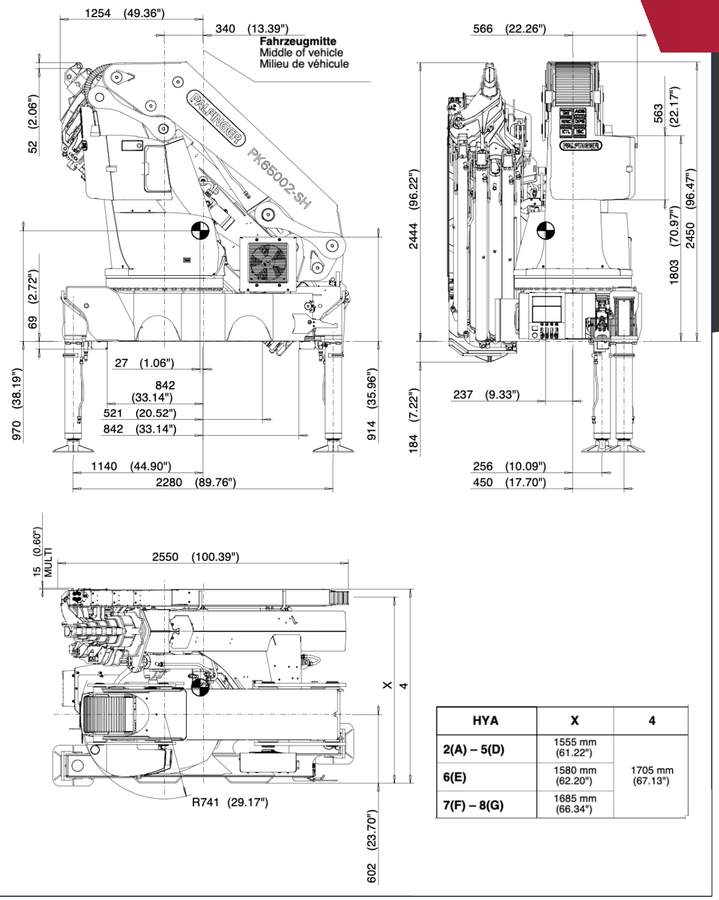








kg	+175	lbs	+386	
CON TUBAZIONI SUPPLEMENTARI MIT ZUSAETZLICHEN LEITUNGEN WITH SUPPLEMENTARY HOSES AVEC TOUYAUTERIE SUPPLEMENTAIRE CON TUBERIAS SUPLEMENTARIAS				*



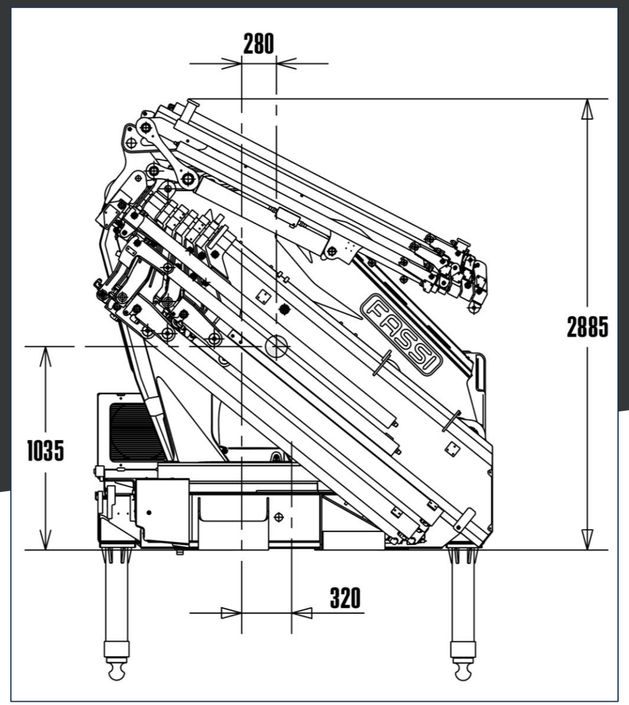
HYA	X	4
2(A) – 5(D)	1555 mm (61.22")	1705 mm (67.13")
6(E)	1580 mm (62.20")	
7(F) – 8(G)	1685 mm (66.34")	

FASSI

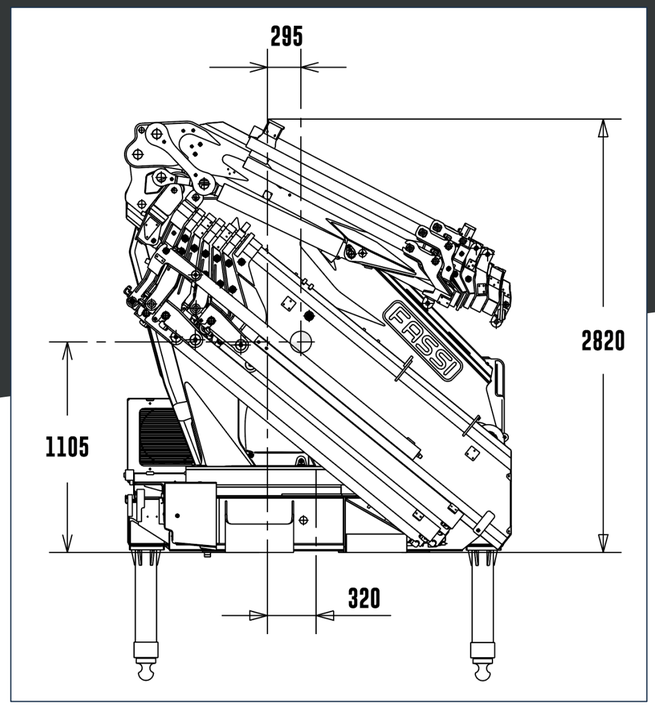
DIMENSIONS

WITH JIB

L224/F705R.2.8-HXP

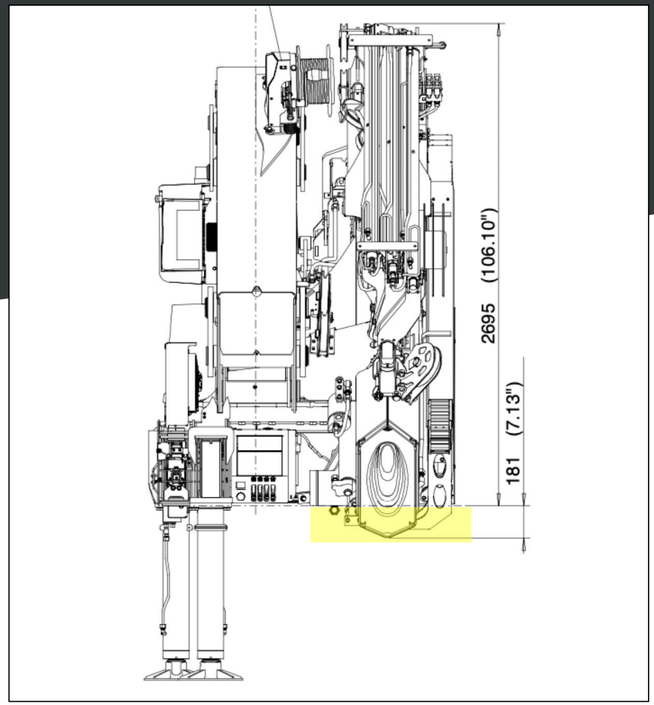


L436/F705R.2.7-HXP



PALFINGER

PK 65002-SH



COMPARISON WITH COMPETITORS: WINCH

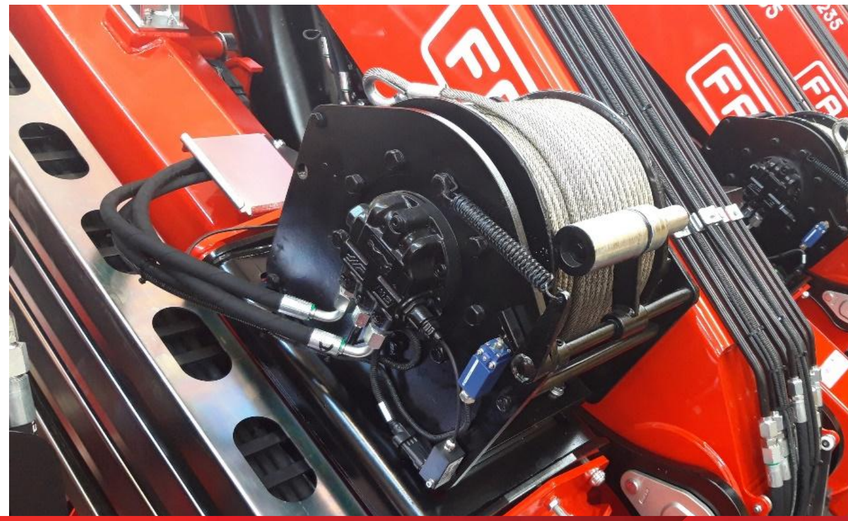
NOT AVAILABLE

PK max 3.5 ton winch

- Load chart not available
- Identification of the winch with first layer

FASSI up to 2.8 ton winch – V28

- **Fassi takes into consideration the last layer**
- **Load chart always available** for the identification of the real capacity



TECHNICAL DATA

WORKING PRESSURE

FASSI

355 bar

PALFINGER

365 bar

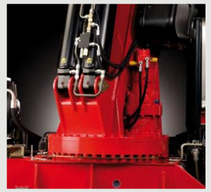
increased wear of the hydraulic circuit

ROTATION TORQUE

FASSI

90 kNm

Standard 2 gear motors!

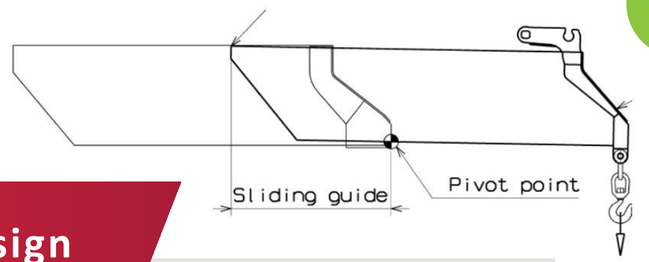


PALFINGER

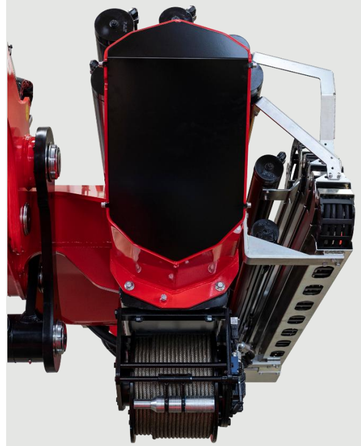
44.1 kNm with 1 gear motor

68,7 kNm with 2 gear motors

COMPARISON «X-DESIGN» VS «HEXAGON PROFILE»



FASSI X-Design



- Better **vertical** performance
- **More reliable**: wider sliding section in between the extensions
- **Maintenance**: useful guide shoe system

PK 65002-SH HEXAGON PROFILE

- **Smaller sliding section** in between the extension booms: **much higher overturn risk**



FASSI

LEADER IN INNOVATION

TECHNO

Fassi Gru S.p.A.
Via Roma, 110 • 4021 Albino (BG) - Italy
fassi@fassi.com

fassi.com