



FERRARI

R E A C H S T A C K E R S

CVS FERRARI

F500

S E R I E S

KING
OF THE
YARD

CVS FERRARI is proud to introduce its **F500 Reach Stacker** series; a new breed of machines that will forever change the standards of performance and return on investment of the industry. The CVS Ferrari F500 Reach Stackers are true engineering masterpieces conceived to massively increase the value generation for the user by sensibly extending the equipment service life and drastically reduce operating cost, besides introducing an unprecedented control of the unit and its systems. Structures certified to withstand endless duty cycles, ultimate energy saving solutions, state of the art on board intelligence, maintenance costs killing design and uncompromised quality of components. Nothing like these trucks ever existed before. Discover the unmatched safety of these unique products and the many innovative driver and caretakers "job easing" solutions they contain. Meet the strength of mecatronics and the power of integrated data processing applied to lifting equipment. Prepare to experience the future.

PREPARE TO EXPERIENCE THE FUTURE.

THE RANGE

The CVS FERRARI F500 Reach Stacker **range** features several different **models** having capacities and configurations that cover virtually any container handling and intermodal application and that are more and more employed with success in a variety of industrial jobs and tasks.

MODEL	WHEELBASE (mm)	CAPACITY - no jacks (Ton)		
		1st row	2nd row	3rd row
F500.RS1	6,500	46	27	13
F500.RS2	6,500	46	31	16
F500.RS3	6,500	46	33	17
F500.RS5	6,500	46	36	19
F500.RS6	6,500	46	39	21
F500.RS7	7,500	46	44	25
F500.RS8	8,000	46	46	28



EXPERIENCE THE FUTURE



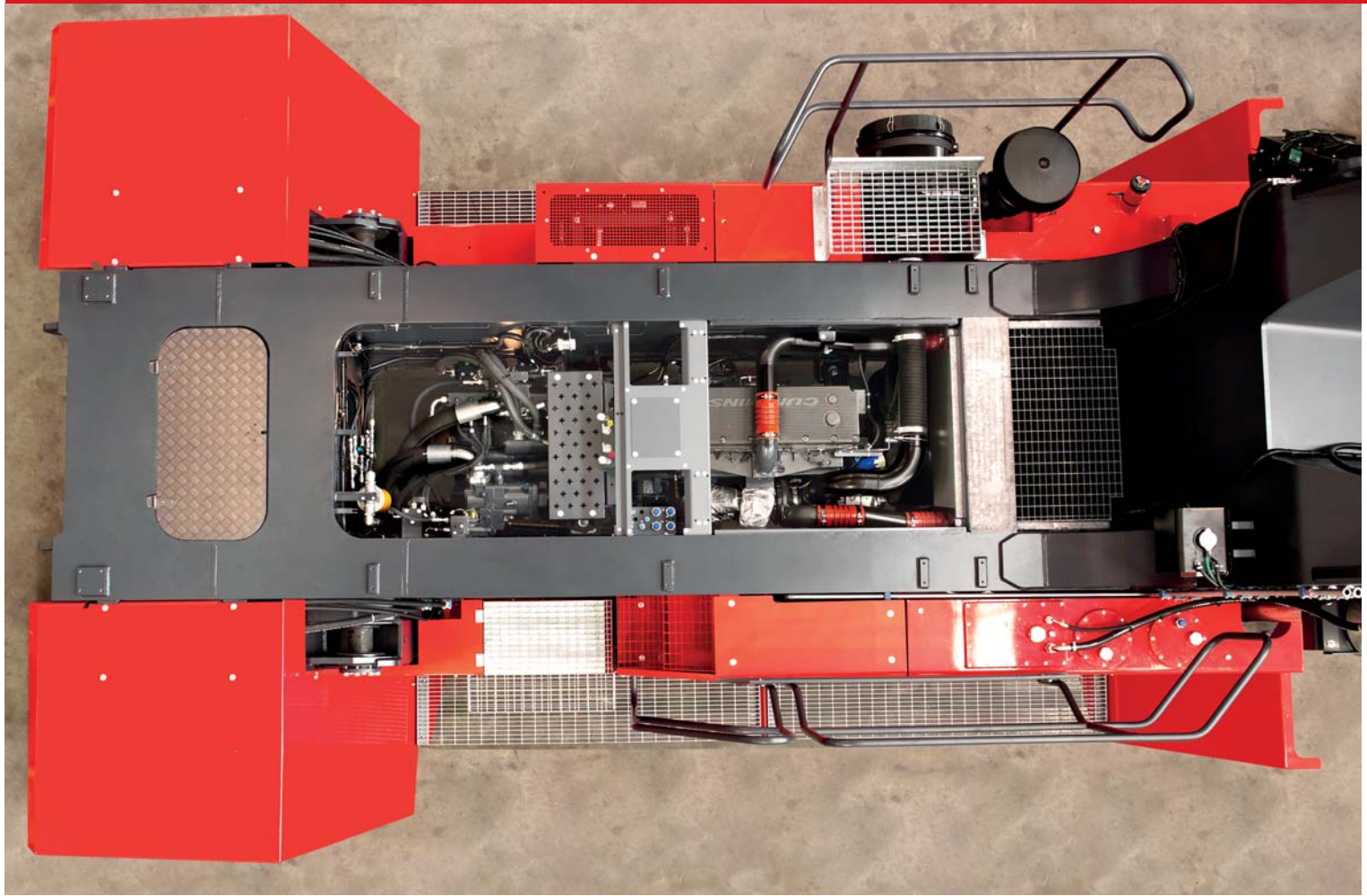


Standard six high stacking ability, the best weight distribution in class, unique dynamic stability control features, drive optimizer function to maximize operational safety and minimize tires wear. The lift and move technology has its new highest peak in the CVS FERRARI F500 Reach Stacker range, the new Kings of the yard.

Standard
46 Ton capacity
and 6x8'6"
stacking ability

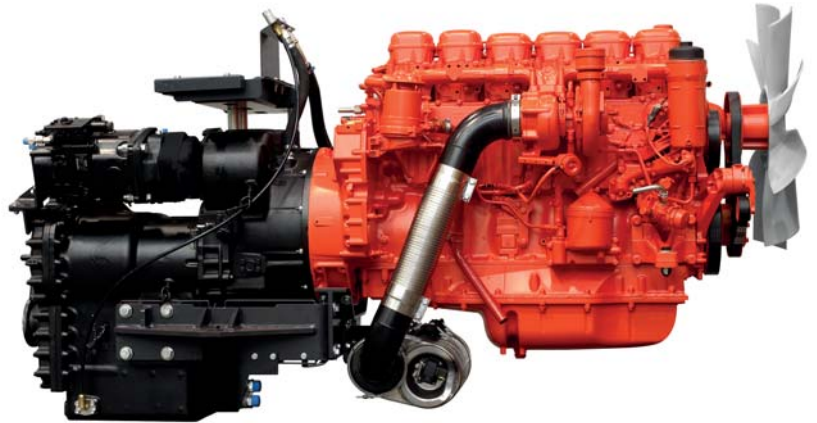
KING OF THE YARD





ART & SCIENCE OF MANUFACTURE

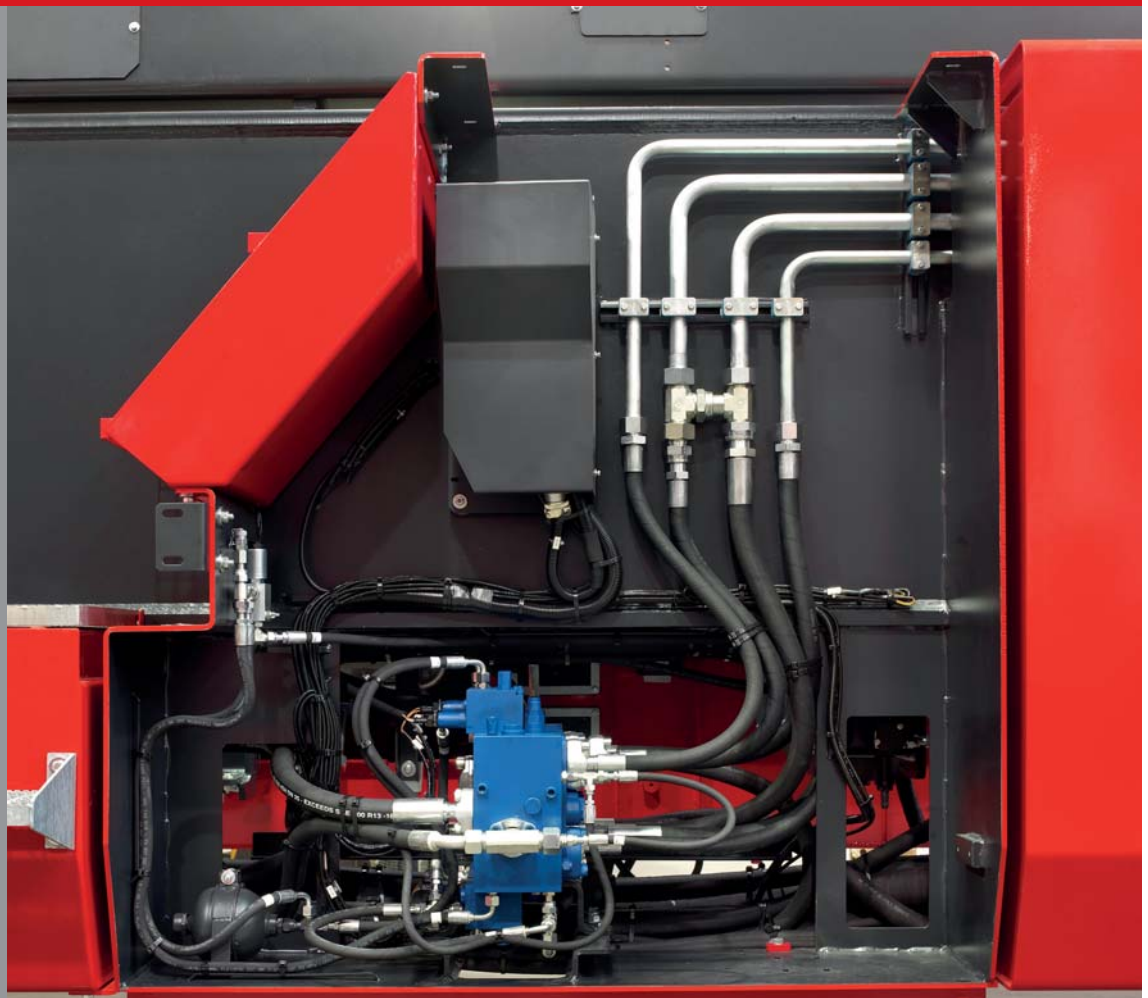
A neatly laid system made of top-notch brand and quality components, rationally lodged in a ultra-strong boxed welded chassis. The frame, designed to achieve the best structural strength in the market, has also been developed with scientific attention to the **optimization of the components layout**. The powertrain is centrally positioned to provide best possible filtered airflow and maximize hydraulic oil system efficiency. The high lateral chassis walls, whilst ensuring excellent torsion and deflection resistance - along with their special paint - provide high sound insulation.



For EU Stage 4 engines the urea reservoir is conveniently located next to the fuel tank

NEXT GENERATION HYDRAULICS

The Hydraulic System is the pulsing heart of the Reach Stacker; the apparatus that administrates the power that the engine makes available. We have equipped our machines with the state-of-the-art technology in high power hydraulics, and we control it with **SIXTH SENSE**, a hardware and software system that will save money and downtime to your business.



The CVS FERRARI F500 Series Reach Stackers are the first ever to fit Electrohydraulics. These modern load sensing distribution valves - managed by the our **SIXTH SENSE** system - react a lot faster to power demand and modulation than hydraulic piloted load sensing systems. Their instantaneous response saves operational time and avoids considerable fuel wastage. **SIXTH SENSE** furthermore protects the engine from unnecessary stalling stress, this way long extending its service life. A nearly doubled cooling capacity of hydraulic and transmission oil, fitted with thermostatically controlled fan enables the F500 to efficiently work both in tropical hot and polar cold environments.



Oversized Hydraulic Oil cooling



Pressurized Hydraulic Oil tank



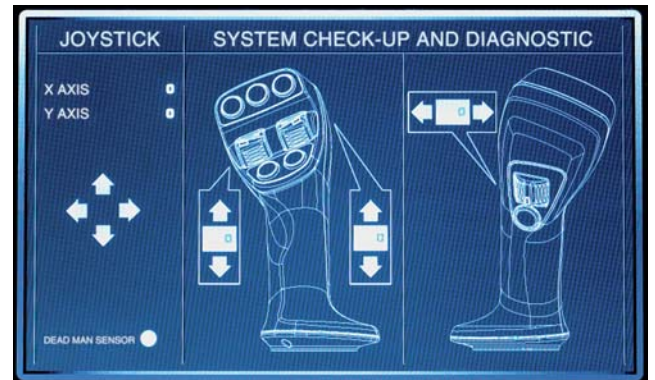
WELCOME ABOARD THE FUTURE

The toughest and best performing Reach Stacker in the world is also the most intelligent of the lot and comes with one of the best driver's environments the industry has ever seen. The F500 Series features the brand new, "space age" **ARIA cabin**, the roomiest cockpit in the market, that furthermore implements ergonomic science latest solutions whilst embodying avionic standard controls. All contained in modern, curved, antiglare and even Falling Object Proof glasses. The relocation of buttons and switches in "easy to see and easy to reach" innovative positions has allowed the shaping of a super-comfortable console panel, independently adjustable from the suspended seat and on which is mounted a "**capacitive type**", **contactless joystick**, that proportionally controls boom and spreader functions.





Handled load and stability reserve display, boom and spreader status information, key functional parameters monitor.



Extensive Systems Diagnostic

A powerful on-board computer integrates the machinery systems data and parameters thus providing real time information, driver's aids, enhanced safety functions, systems integrity protections, in depth fault diagnostic, functional and operational recording and real time updated key performance indicators. All functions accessible through a colour and graphic 7in. heavy duty type digital display.

REMOTE DATA MONITORING

With its new F500 Series Reach Stacker series, CVS FERRARI makes available to its public a unique system for the complete real time monitoring of the machine activity and its life time data tracking and analysis. The optional REMOTE DATA MONITORING (RDM)



hardware and software package transfers data to a server that makes them accessible in virtually real time to the user on a series of devices. The systems comes with tools that provide:

- Live Status of the truck and fleet activity
- Remote Systems Telemetry
- Multi-level important event Alert Process
- Interactive Data Base of functional and operational Machine Data History
- Data Analysis Tools
- Table and Graphic data elaboration for reporting purposes



ID	Date	Time Start	Time End	Box Size	Weight	Height Start	Height End
1	02/04/2014	12.02	12.05	40	26.2	3S	T
2	02/04/2014	11.58	12.01	20	18.8	2S	T
3	02/04/2014	11.53	11.57	20	24.5	4H	T
4	02/04/2014	11.50	11.53	40	22.6	T	3H
5	02/04/2014	11.46	11.49	40	30.1	T	4H
6	02/04/2014	11.38	11.44	40	24.4	T	6S
7	02/04/2014	11.26	11.32	40	3.0	6S	1S
8	02/04/2014	11.21	11.25	20	18.4	5H	2H
9	02/04/2014	11.11	11.18	30	25.2	4H	T
10	02/04/2014	11.07	11.09	30	25.1	3H	1H

OPERATIONAL LOG BOOK F1: Up, F2: Down, F6: PageUp, F7: PageDown, F5: Left, F10: Right

The Functional Log Book keeps track of every warning or alarm occurred. The Operational Log Book records every load handling performed by the machine

OPERATIONAL STATS			
TOTALS		AVERAGES	
Working Hours	6.680	Lifts / Working Hour	12,31
Idle Hours	812	TEUs / Working Hour	19,29
Hydraulics Work Hours	1.025	Tonnes / Working Hour	253,79
Consumed Fuel in Litres	101.046	km / Working Hour	3,98
Handled Containers (Lifts)	82.212	Tonnes / Lift	20,52
Handled TEUs	128.828	km/Lift	0,32
Lifted Load (Tonnes)	1.695.318	Idle Time per W. Hour	12%
Distance Travelled (km)	26.617	Hydraulic Work per W. Hour	15%

The Operational Statistics Function provides machine work KPIs in real time. The Energy Usage Stats function works out the fuel consumption and relates it to main operational variables.

EVERLASTING STRUCTURE



The CVS FERRARI Reach Stackers are the sole in the market to have all the structures **certified** by a major international third party inspection and verification institute, to be fully compliant with Standard DIN 15018 - H2 B4 Classes.

This unique mark of superior structural design strength speaks of the lot longer design life of our machines, whose extended durability translates in much **greater investment return.**



Thought to resist the heaviest applications in the harshest environments, the F500 Series Reach Stackers do not compromise in size, material grade or specification of its mechanicals. The precision tolerances of our pins and cylinders, the chroming depth and saline fog resistance of our rods as well as the size of our bearings are just superior over those of any equivalent in class competition.



King Size
 "sandwich type"
 Steer Axle
 with
 giant rubber
 Shock Absorbers

 Quality Tires
 on heavy duty
 interchangeable
 rims



The Drive and Steer Axles of the Ferrari F500 Series Reach Stackers are top of the range capacity gears employed all along the product line. The extreme **standardization and modularity** of design are such that wheels size and counterweight are the sole components that vary across the whole range.



ENGINEERING MASTERPIECES

The new F500 range of CVS Ferrari features a piece of engineering that consolidates forty years of experience in the development of reach stacker spreaders. This massive know-how created a light yet extremely strong attachment that built out of very



The standard cab is manually sliding to optimize service access. An optional hydraulically sliding



high tensile strength steel, with its long overlapping boxed welded telescopic beams delivers **ultimate stress resistance**. The spreader's twin beam design and the externally mounted extension cylinders make service very simple and easy. Twin gear reducers with lamellar brakes, powered by two hydraulic motors, proportionally control the rotation that is executed by an oversized gear. The full floating twist-locks have a double safety system and are individually monitored.



cab also optimizes driver's visibility in specific operations.

FRIENDLY
TO USE
EASY TO
SERVE



Developing a product of success is about **thinking of the people** that will make use of it: the owners, the drivers and the caretakers. That's why, in our Reach Stackers, even the smallest detail has been scrutinized from every angle of view and then worked out as the best synthesis of effectiveness, efficiency and ease of fruition.

“ANY-WEATHER-PROOF” ELECTRICS

Reduced to the minimum by the extensive use of CAN BUS components, the machine electrics are safely enclosed in IP67 proof encasings and distributed throughout sealed cables ending in top quality aluminum casted military type connectors



CLEVER SYSTEM SOLUTIONS

System solutions and components distribution choices that simplify and fasten periodic service tasks and minimize maintenance cost. Like the handy and safe air filter positioning and the brilliant hydraulic and externally placed aircon compressor unit.

TOTAL ACCESSIBILITY

The sliding cab grants complete access to the engine and transmission bay. Fluid levels check and refill points grouping is provided in the compartment along with a wide and safe stand-on platform.





FERRARI

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