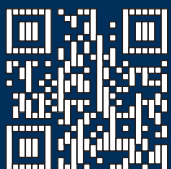




Tecport
LATIN AMERICA



FERRARI



**Reach Stackers F500
F500.RS2**

DATA SHEET

F500



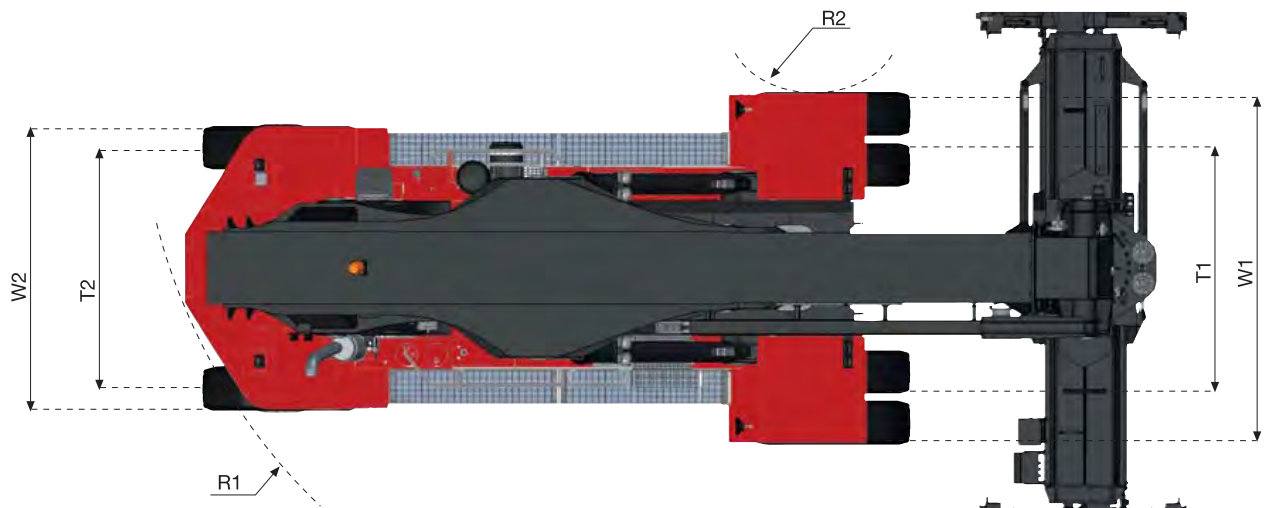
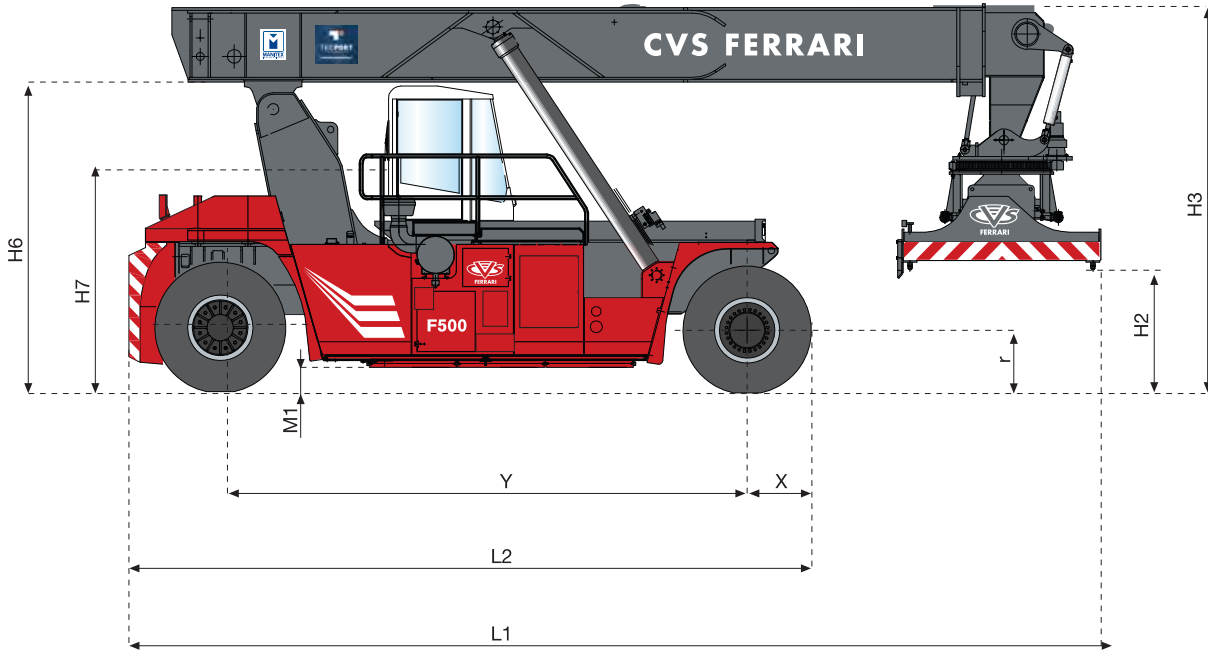
CHARACTERISTICS	Make			CVS FERRARI		
	Truck type			Reach Stacker		
	Truck model			F500.RS2		
	Attachment type			Container spreader		
	Attachment model			TS45RSX2		
	Load capacity “on tyres” First / second third container row	Q	kg	46000	31000	16000
	Load centre distance First / second / third container row	C	mm	1780	3815	6400
	Load distance to face of front of the truck	X	mm	930		
	Wheelbase	Y	mm	6500		
WEIGHTS	Service weight - Unladen		kg	71000		
	Axle load at load center C1, with rated load Front and Rear		kg	100400	16600	
	Axle load at load center C1, without load Front and Rear		kg	36000	35000	
DRIVE TRAIN	Engine manufacturer / type			Cummins QSM11		
	Rated power		kw	250 (at 2100 rpm)		
	Maximum power		kw	272 (at 1800 rpm)		
	Peak torque		N m	1674 (at 1400 rpm)		
	Rated speed		rpm	2100		
	Number of cylinder		cm3	6		
	Displacement			10800		
	Transmission manufacturer / type			Dana TE32		
	Gear - Forward / Reverse			4 / 4		
	Driving axle			Kessler D102		
	Service brake			Cooled wet disk brake		
	Parking brake			Dry disk brake		
	Steering			Fully hydrostatic		



TIRES	Tires			Pneumatic	
	Tires size - Front			18.00 - 25	
	Tires Ssize - Rear			18.00 - 25	
	Wheels - Number Front / Rear (X = driven wheels)			4X / 2	
	Reference radius - Loaded Front axle distance from the ground	r	mm	870	
	Track - Front	T1	mm	3035	
	Overall width over front tyres	W1	mm	4185	
	Track - Rear	T2	mm	2820	
	Overall width over rear tyres	W2	mm	3375	
PERFORMANCE	Travel speed - Laden / Unladen		km/h	21.5	24.0
	Tractive Effort		k/N	300	
	Gradeability - without Load - at 2 km/h		%	34.0	
	Gradeability - Rated Load - at 2 km/h		%	21	
	Lifting speed - Lifting and Extension Laden (70% of rated load) / Unladen		m/s	0.25	0.30
	Lowering speed - Lowering and Retraction Laden (70% of rated load) / Unladen		m/s	0.35	0.55
TRUCK DIMENSIONS	Boom angle - Maximum		deg	60	
	Spreader distance from the ground - Minimum	H2	mm	1470	
	Boom height - Fully lowered	H3	mm	4800	
	Maximum lift height under spreader	H4	mm	16100	
	Boom height - Maximum	H5	mm	19100	
	Truck height - Without boom	H6	mm	3785	
	Seat height - S.I.P.	H7	mm	2680	
	Ground clearance - Center of wheelbase	M1	mm	420	
	Overall height	L1	mm	12000	
	Length without boom	L2	mm	8560	
	90° Stacking Aisle 20' container spreader central above front axle with 200mm ground clearance	A1 20'	mm	9800	
	90° Stacking Aisle 40' container spreader central above front axle with 200mm ground clearance	A1 40'	mm	12700	
	90° Stacking Aisle 20' container with 200 mm ground clearance	A2 20'	mm	11900	
	90° Stacking Aisle 40' container with 200 mm ground clearance	A2 40'	mm	13900	
	Turning radius - Outer	R1	mm	8400	
	Turning radius- Inner	R2	mm	980	
ATTACHMENT	Rated Load		kg	45000	
	Side Shift		mm	±800	
	Rotation		deg	-95° / +185°	
	Side titling - Mechanical		deg	±3°	
	Side titling - Hydraulic		deg	No	
	WTP handling ability			No	

SCHEME F500



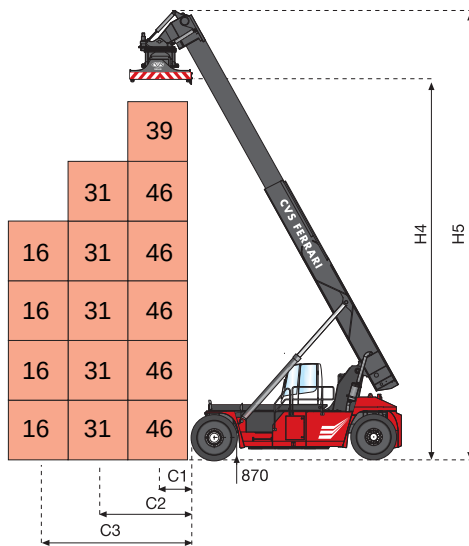


SCHEME F500

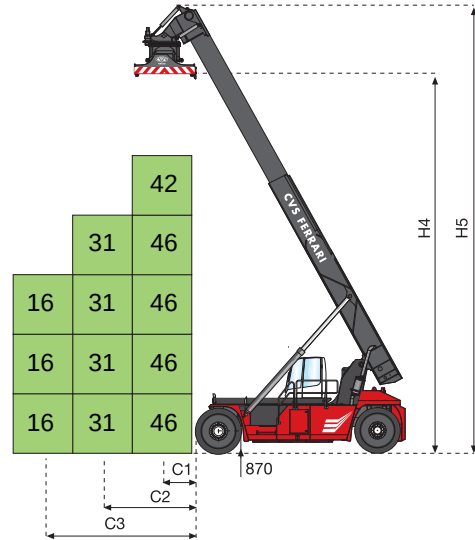


F500.RS2 CAPACITY

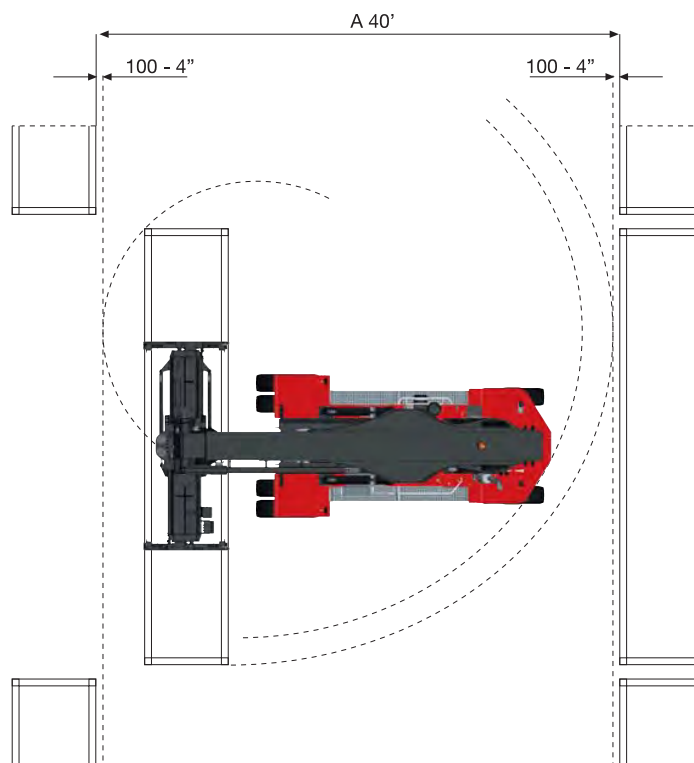
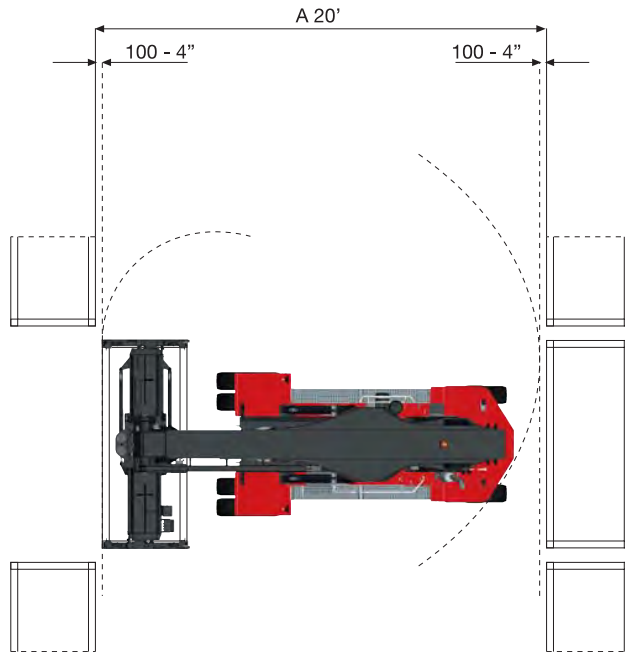
8'6" CTS



9'6" CTS



MANOEUVRABILITY



STANDARD EQUIPMENT F500





DESIGN

- Exceptionally strong structure
- Third Party Certified to comply with DIN 15018 H2B4
- CE Certified

ENGINE

- CUMMINS QSM 11 electronic turbocharged and aftercooled
- Rated Power 272 Kw (370 HP)
- Full can-bus control and communication
- Fuel pre-filter with water separator
- Dry air filter with rain cap
- Engine protection system
- Radiator cap with chain

TRANSMISSION

- DANA-Spicer (CLARK) TE 32 FULL NOW
- Four Speeds, electronic, modulated, powershift and torque converter
- Full can-bus control and communication
- Automatic gearshift with anti-reverse driving protection
- Transmission protection system against low pressure
- Separate oil cooling system with hydraulic fan assisted radiator

DRIVE AXLE

- Kessler mod. D102 front drive axle
- Double reduction differential

STEER AXLE

- CVS rear oscillating steering axle
- Sandwich type oversize structure made of high tensile strength steel
- Double effect steering cylinder
- Shock absorbers

BOOM

- Two stage telescopic
- Boxed welded section design
- Made of high tensile strength steel
- Fully greaseable joints and sliding pads
- One telescopic and two lift cylinders
- Two spreader dampening cylinders
- Wide spreaders mount head

CHASSIS

- Welded structure made of high tensile steel
- High torsion resistant design
- Wide boom towers to maximize rear visibility
- Eyebolts for vehicle front and rear lifting
- Grip Struct steps and walkways
- Handrails for access to cabin
- Outside service bay
- Easy lift hoods with gas-springs
- CVS FERRARI standard colours

WHEELS

- Four front and two rear wheels
- Heavy duty rims
- Pneumatic tires size 18.00-33-40 PR

STANDARD EQUIPMENT F500



HYDRAULIC SYSTEM

- Two main variable displacement piston pumps
- Exclusive "SIXTH SENSE" load sensing system with high energy efficiency and fastest speed of response
- CVS "Eco-mode" software that optimizes energy utilization
- Cooling system with air-oil heat exchanger with hydraulically driven fan
- 10 micron filters
- Level indicators on the tank
- Orbitrol servo-assisted steering system

BREAKING SYSTEM

- Wet disc brakes
- Brakes cooling system with air-oil heat exchanger (fan assisted)
- Automatic parking brake with engine switch off

ELECTRIC SYSTEM

- 24 Volts
- Two 180 Amph heavy duty batteries
- Redundant CAN-BUS Electronic/Electric System Architecture

- CAN BUS communication protocol
- Integrated diagnostic for main components
- Front headlights, beamlights and parking lights
- Front, side and rear indicator lights
- Rear parking brake reverse lights
- Rotating beacon
- Two work lights on the spreader
- Four work lights boom
- Front, rear and side emergency lights
- Reverse audible alarm

ELECTRONIC LOAD MANAGEMENT SYSTEM

- With redundant sensors and processors
- Compliant with EN 15000
- Display of residual stability graph bar
- Visual and audible warning and alarm information
- Load gauge (2% dynamic accuracy)
- Boom geometry data real time display
- Full colour LCD display "SMARTH VIEW" model showing:



- Complete status og operational parameters
- Complete set of functional parameters
- Complete set of gauges ad indicators
- System functional warnings and alarm
- Operational performance record

CABIN

- Driver's cabin is central/rear position (FOPS compliant)
- Sound-proofing comliant with EN 12053
- Manually sliding
- Heating system
- Air filter for air recirculation
- Cushioned type driver's seat
- Right side armrest
- Safety belt
- Muti speed wipers on frontrear and upper glass
- Front windscreen and tempered rear & side glasses - blue tinted
- Upper window in safety material LEXAN
- Slidingside windows
- Two lockable doors with gas springs and open position lock
- Two inside & two outside rear mirrors
- Fade away internal lights
- State of the art ergonomic lay out of controls
- Adjustable steering column (inclination & height)
- Knob on steering wheel
- Sun curtain on upper window
- Secondary Seat

CONTROLS

- Can Bus type multi-function Joystick
- "Dead Man" protection (capacitive type) on Joystick
- Additional control panel for additional functions
- Electrical horns (2)
- Electrical accelerator pedal
- Brake pedal with transmission declutch
- Brake pedal
- Parking brake electric button
- Automatic gearshift
- Headlights / indicator switch
- Automatic climate control

ON BOARD COMPUTER

- Electric, Electronic and Hydraulic Systems dagnostic
- Functional Events Log Book
- Operational Activity Log Book
- USB Port for data download
- Efficiency Statics program

ATTACHMENT

- ISO 20' - 40' telescopic spreader
- Twin beam structure made of weldox steel
- Weldox steel boxed welded telescopic beams
- 20' - 40' automatic positioning
- Hydraulic rotation -105+195 degrees
- Side shifting + / - 800 mm
- Mechanical side slope +/- 3
- nr. 4 lifting eyes (10 ton capacity each)
- Full floating Twist-locks
- Mechanical and electrical safeties
- Twist-Lock Status indication Lights on Boom and in cab display

OPTIONAL EQUIPMENT F500 (NON RESTRICTED TO)



- Cyclone pre-filter
- Emergency steering with electro-hydraulic pump
- Electrical Joystick or mini-wheel steering
- Lifting speed booster
- Dampening cylinders inclination control
- Starting outlet by external batteries
- 12 V socket in the cab
- Data transfer kit through GSM modem
- Data transfer kit through radio modem
- Badge password for operator
- Radio CD player + MP3
- Adjustable spot light in cab
- Additional rotating amber beacon
- 160 mm fan in the cabin
- Camera with colour screen for front visibility
- Camera with colour screen for rear visibility
- Anticollision device for spreader (rotation stop +/- 30°)
- Integrated battery charger
- Winterization Package
- Rear parking sensors
- 6' x 9' 6" Stacking Boom
- LED lamps
- Printer in Cab
- Additional front and rear working lights
- Hydraulic sliding cab
- Air-suspended seat with belt
- Sun curtain on rear window
- Stop at 30' position
- Hydraulic Spreader Pile Slope +/- 5 seg
- Hydraulic WTP containers twist lock adjustment
- Insulated cab heating hoses
- Automatic Centralized Lubrication
- CO2 fireextinguisher, 2 Kg
- Customized painting schemes
- Special sound proofing
- Additional counterweight for increased capacities
- Front stabilizers
- Rear towing hook
- Stairs for access to cabin, right side
- Customized paint schemes





Tecport

LATIN AMERICA



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FERRARI
We Care