

# RPF2 X8 SERIES STAGE V - TIER 2

PRODUCT INFORMATION MANUAL

## **WARNINGS**

The Product Information Manual is reserved exclusively for the use of the ARGO TRACTORS Sales & Dealer networks and must not be disclosed in whole or partially to third parties.

Every effort has been made to ensure that the information contained in this publication are as accurate as possible.

However, inaccuracies, errors or omissions may occur and the details of the specifications may be changed at any time without notice.

Therefore, all specifications must be confirmed with the McCormick dealers or distributors prior to any purchase.

# PRODUCT OVERVIEW

McCORMICK X8 SERIES STAGE V

RPF2



### HIGHLIGHTS

Performance

Technology

Design

Comfort

Efficiency





PRODUCT LINE UP

**X8 VT-DRIVE**

STAGE V

6 CYL 4 STAGES CVT  
MAX POWER

X8.627



273hp

X8.631



313hp



PRODUCT LINE UP

X8 VT-DRIVE

TIER 2

6 CYL 4 STAGES CVT  
MAX POWER

X8.631



305hp



# PRODUCT INFORMATION MANUAL



## NOTES



# NEW FEATURES

McCORMICK X8 SERIES STAGE V

RPF2

### NEW FEATURES

- New Stage V iso-mounted engine
- New hood & roof style
- McCormick family feeling
- New 3D Decal on the hood
- New DSM menus with new functions
- Up to 12 LED roof working lights
- 360° night visibility



## McCORMICK METALLIC RED SPIRIT

McCormick Metallic Red Special Edition

Black Matt rims





# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### X8 VT-DRIVE STAGE IV vs STAGE V

MODEL		X8.660	X8.670	X8.680	X8.627	X8.631
ENGINE PERFORMANCE						
Max power	hp/kW	264/194	286/210	310/228	273/201	313/230
Max torque	Nm	1132	1194	1282	1173	1282
Max torque erpm	rpm	1400			1400	
Torque backup (with EPM)		37%	37%	28%	40%	28%
Engine type - Installation type		NEF 67 with eVGT - 6 cyl iso-mounted			NEF 67 with eVGT - 6 cyl iso-mounted	
Displacement	cm³	6700			6700	
Exhaust post-treatment		Stage IV - Hi-eSCR (DOC+SCR)			Stage V - HI-eSCR2 (DOC+SCRoF)	
Maintenance		500 hours interval maintenance			1000 hours interval maintenance	
CAPACITIES						
Fuel tank	litres	550			550	
AdBlue / DEF tank	litres	81			81	
TRANSMISSION						
Type		VT-Drive – CVT ZF TMT 32			VT-Drive – CVT ZF TMT 32	
No. of gears		● 4 electro-hydraulic ranges			● 4 electro-hydraulic ranges	
40 km/h - erpm	rpm	● 1300			● 1300	
50 km/h - erpm	rpm	○ 1580			○ 1580	
REAR PTO						
Type		electro-hydraulic multidisc w/ modulation			electro-hydraulic multidisc w/ modulation	
Speeds		540 E / 1000 / 1000 E			540 E / 1000 / 1000 E	
FRONT AND REAR AXLES						
Front axle		● Rigid (Efficient) - ● Suspended axle (Premium)			● Rigid (Efficient) - ● Suspended axle (Premium)	
HYDRAULIC SYSTEM						
CCLS flow rate		● 160 l/min - ○ 212 l/min with Ultraflow			● 160 l/min - ○ 212 l/min with Ultraflow	
Rear spool valves (Efficient)		● 4 EHR ○ up to 6 EHR			● 4 EHR ○ up to 6 EHR	
Rear spool valves (Premium)		● 4 rear EHR+3 front EHR ○ up to 6 rear EHR+3 front EHR			● 4 rear EHR+3 front EHR ○ up to 6 rear EHR+3 front EHR	
Flow divider with flow selector		NA			○ 3 sections with push-pull connectors	
Flow divider flow rate	l/min	NA			60 l/min per section	
Power Beyond		● ready or with push-pull connectors			● ready or with push-pull connectors	
Hydraulic oil take out	litres	70			70	

# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### X8 VT-DRIVE STAGE IV vs STAGE V

MODEL		X8.660	X8.670	X8.680	X8.627	X8.631
REAR 3-POINT HITCH						
Category - hitch type		● IV N - quick hitch type			● III - quick hitch type ○ IV N - quick hitch type	
Max lifting capacity	kg	● 12000			● 12000	
FRONT 3-POINT HITCH						
Category & hitch type		● III N with quick hitch type (Premium – NA on Efficient)			● III N with quick hitch type (Premium – NA on Efficient)	
Max lifting capacity	kg	5000			5000	
FRONT PTO						
Type		○ electro-hydraulic multidisc w/ engage modulation			○ electro-hydraulic multidisc with engage modulation	
Speeds		1000			1000	
CAB						
Première Cab		● 4 post cab fixed on silent block			● 4 post cab fixed on silent block (Efficient)	
Mechanical suspension		NA			○ mechanical cab suspension (Efficient)	
Semi – active cab suspension		● semi – active cab suspension system			● semi – active cab suspension system	
Noise level in cab	dB(A)	70			70	
Working lights (Efficient)		● 10 halogen			● 18 halogen	
Working lights (Premium)		● 16 halogen ○ 16 LED			● 18 halogen - ○ 20 LED	
ON-BOARD TECHNOLOGY						
ISObus (front)		○			○	
PSM & EazySteer		● DSM, ISObus, PSM ready, X25 & AGS-2			● DSM, ISObus, PSM ready, X25 & AGS-2	
Fleet Management		NA			● 3 years full plan - ○ 5	
Remote Diagnostic Manag.		NA			○ 3/5 years full plan (with Fleet Management)	
WEIGHT AND DIMENSIONS						
Wheelbase	mm	3000			3000	
Cab height (w/PSM)	mm	3354 (3445) - with tyres 650/65R34 - 900/60R42			3354 (3445) - with tyres 650/65R34 - 900/60R42	
Max lenght	mm	5400			5400	
Steering radius	mm	6569 measured with tyres 650/65R34 - 900/60R42			6569 measured with tyres 650/65R34 - 900/60R42	
Weight w/ average	kg	10800			10800	
Gross vehicle weight	kg	16000			16000	
Max tires (IR)	mm	650/65R34 (IR 775) - 900/60R42 (IR 1025)			650/65R34 (IR 775) - 900/60R42 (IR 1025)	

# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### X8 VT-DRIVE TIER 2 old vs TIER 2 new

MODEL		X8.660	X8.631
<b>ENGINE PERFORMANCE</b>			
Max power	hp/kW	305/224	305/224
Max torque	Nm	1247	1247
Max torque erpm	rpm	1400	1400
Torque backup (with EPM)		28%	28%
Engine type - Installation type		NEF 67 with eVGT - 6 cyl iso-mounted	NEF 67 with eVGT - 6 cyl iso-mounted
Displacement	cm <sup>3</sup>	6700	6700
Emission stage		Tier 2	Tier 2
Maintenance		500 hours interval maintenance	1000 hours interval maintenance
<b>CAPACITIES</b>			
Fuel tank	litres	550	550
<b>TRANSMISSION</b>			
Type		VT-Drive – CVT ZF TMT 32	VT-Drive – CVT ZF TMT 32
No. of gears		• 4 electro-hydraulic ranges	• 4 electro-hydraulic ranges
40 km/h - erpm	rpm	• 1300	• 1300
50 km/h - erpm	rpm	○ 1580	○ 1580
<b>REAR PTO</b>			
Type		electro-hydraulic multidisc w/ modulation	electro-hydraulic multidisc w/ modulation
Speeds		540 E / 1000 / 1000 E	540 E / 1000 / 1000 E
<b>FRONT AND REAR AXLES</b>			
Front axle		• Rigid (Efficient) - • Suspended axle (Premium)	• Rigid (Efficient) - • Suspended axle (Premium)
<b>HYDRAULIC SYSTEM</b>			
CCLS flow rate		• 160 l/min - ○ 212 l/min with Ultraflow	• 160 l/min - ○ 212 l/min with Ultraflow
Rear spool valves (Efficient)		• 4 EHR ○ up to 6 EHR	• 4 EHR ○ up to 6 EHR
Rear spool valves (Premium)		• 4 rear EHR+3 front EHR ○ up to 6 rear EHR+3 front EHR	• 4 rear EHR+3 front EHR ○ up to 6 rear EHR+3 front EHR
Flow divider with flow selector		NA	○ 3 sections with push-pull connectors
Flow divider flow rate	l/min	NA	60 l/min per section
Power Beyond		• ready or with push-pull connectors	• ready or with push-pull connectors
Hydraulic oil take out	litres	70	70



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### X8 VT-DRIVE TIER 2 old vs TIER 2 new

MODEL		X8.660	X8.631
<b>REAR 3-POINT HITCH</b>			
Category - hitch type		• IV N - quick hitch type	• III - quick hitch type ◦ IV N - quick hitch type
Max lifting capacity	kg	• 12000	• 12000
<b>FRONT 3-POINT HITCH</b>			
Category & hitch type		• III N with quick hitch type (Premium – NA on Efficient)	• III N with quick hitch type (Premium – NA on Efficient)
Max lifting capacity	kg	5000	5000
<b>FRONT PTO</b>			
Type		◦ electro-hydraulic multidisc w/ engage modulation	◦ electro-hydraulic multidisc with engage modulation
Speeds		1000	1000
<b>CAB</b>			
Première Cab		• 4 post cab fixed on silent block	• 4 post cab fixed on silent block (Efficient)
Mechanical suspension		NA	◦ mechanical cab suspension (Efficient)
Semi – active cab suspension		• semi – active cab suspension system	• semi – active cab suspension system
Noise level in cab	dB(A)	70	70
Working lights (Efficient)		• 10 halogen	• 18 halogen
Working lights (Premium)		• 16 halogen ◦ 16 LED	• 18 halogen - ◦ 20 LED
<b>ON-BOARD TECHNOLOGY</b>			
ISObus (front)		◦	◦
PSM & EasySteer		• DSM, ISObus, PSM ready, X25 & AGS-2	• DSM, ISObus, PSM ready, X25 & AGS-2
Fleet Management		NA	• 3 years full plan - ◦ 5
Remote Diagnostic Manag.		NA	◦ 3/5 years full plan (with Fleet Management)
<b>WEIGHT AND DIMENSIONS</b>			
Wheelbase	mm	3000	3000
Cab height (w/PSM)	mm	3354 (3445) - with tyres 650/65R34 - 900/60R42	3354 (3445) - with tyres 650/65R34 - 900/60R42
Max lenght	mm	5400	5400
Steering radius	mm	6569 measured with tyres 650/65R34 - 900/60R42	6569 measured with tyres 650/65R34 - 900/60R42
Weight w/ average	kg	10800	10800
Gross vehicle weight	kg	16000	16000
Max tires (IR)	mm	650/65R34 (IR 775) - 900/60R42 (IR 1025)	650/65R34 (IR 775) - 900/60R42 (IR 1025)

## BENEFITS & COMPETITIVE ADVANTAGES

New FPT StageV iso-mounted engine 6 cylinder with eVGT and without EGR and improved fuel injection strategy

### INCREASED ENGINE REACTIVITY WITH LOWER PM EMISSIONS

New 6 cylinder platform with iso-mounted engine with compact wheelbase

### IMPROVED TRACTION AND WEIGHT DISTRIBUTION

New DSM software and new command lever with new MyFunctions buttons (armrest only)

### ENHANCED DRIVING EXPERIENCE & TRACTOR FUNCTIONS MANAGEMENT

Hood and roof style with the new McCormick family feeling

### ENHANCED TRACTOR STYLE AND FUNCTIONAL DESIGN

VT-Drive 4 stages ZF Continuous Variable Transmission

### HIGHER PERFORMANCE, LESS POWER LOSS AND FASTER, SMOOTHER ACCELERATION THAN A 2-STAGE TRANSMISSION

Ultra-Flow hydraulic option

### FOR CUSTOMERS WHO NEED HIGHER OIL FLOW DEMAND FOR LOADERS AND TRAILERS' OPERATIONS

Flow selector with up to 6 push-pull connectors (also with mechanical rear remote valves)

### INCREASED HYDRAULIC REAR SPOOLS ALSO IN ENTRY-LEVEL CONFIGURATION

## **BENEFITS & COMPETITIVE ADVANTAGES**

Free flow return in standard equipment

**FOR EVERY IMPLEMENT WHICH REQUEST HIGH DRAIN OIL FLOW WITHOUT THE NEED OF THE POWER BEYOND**

Fleet management and GNSS autoguidance antenna factory-fit solution

**ENHANCED DESIGN WITH COMPACT & INTEGRATED SOLUTION**

**INCREASED SECURITY PREVENTING PARTS TO BE STOLEN**

New Dromone<sup>®</sup> Automatic Pick-Up Hitch with new release lever in cab mounted

**IMPROVED OPERATOR COMFORT**

**PREMIUM BRAND COMPONENTS**

New darker cab interiors

**IMPROVED CLEAN LOOK & DIRT RESISTANCE**



# PRODUCT INFORMATION MANUAL



## NOTES

# VERSIONS

McCORMICK X8 SERIES STAGE V

RPF2

# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL



### PREMIUM VERSION

Multi-function armrest & EasyPilot

DSM touchscreen monitor - 12"

MyFunctions, MyLights & MyHMF

4 rear EHR + 3 front EHR

up to 6 rear EHR + 3 front EHR (opt)

3 ways flow selector with 6 push-pull connectors (opt)

Semi – active cab suspension & front suspended axle

Front hitch

Front PTO (opt)



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL



### EFFICIENT VERSION

Multi-function armrest & EasyPilot

DSM touchscreen monitor - 12"

MyFunctions, MyLights & MyHMF

4 rear EHR

up to 6 rear EHR (opt)

3 ways flow selector with 6 push-pull connectors (opt)

Mechanical cab suspension & front rigid axle

Without Front hitch only

Front PTO (NA)





## NOTES

# ENGINE

McCORMICK X8 SERIES STAGE V

RPF2

## ENGINE

McCormick X8 is equipped by FPT NEF 67 6 cyl engines with eVGT Variable Turbocharger.

The NEF 67 engines are Stage V emission requirements compliant thanks to the HI-eSCR2 aftertreatment system.

The iso-mounted installation grants high maneuverability, traction and strongness.



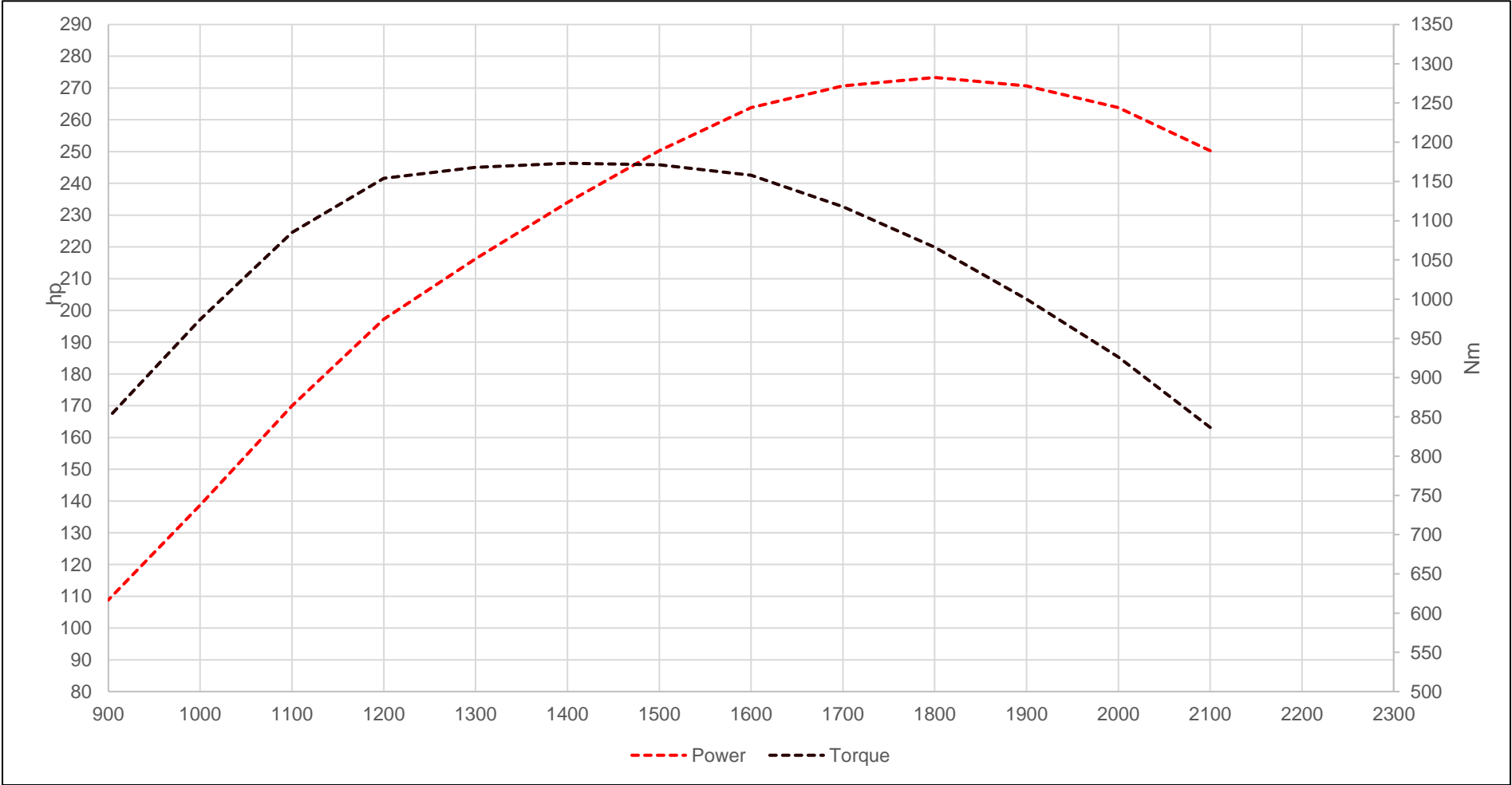
 **NEF 67**  
POWERTRAIN TECHNOLOGIES

6 CYL STAGE V ENGINE

**HI-eSCR2**

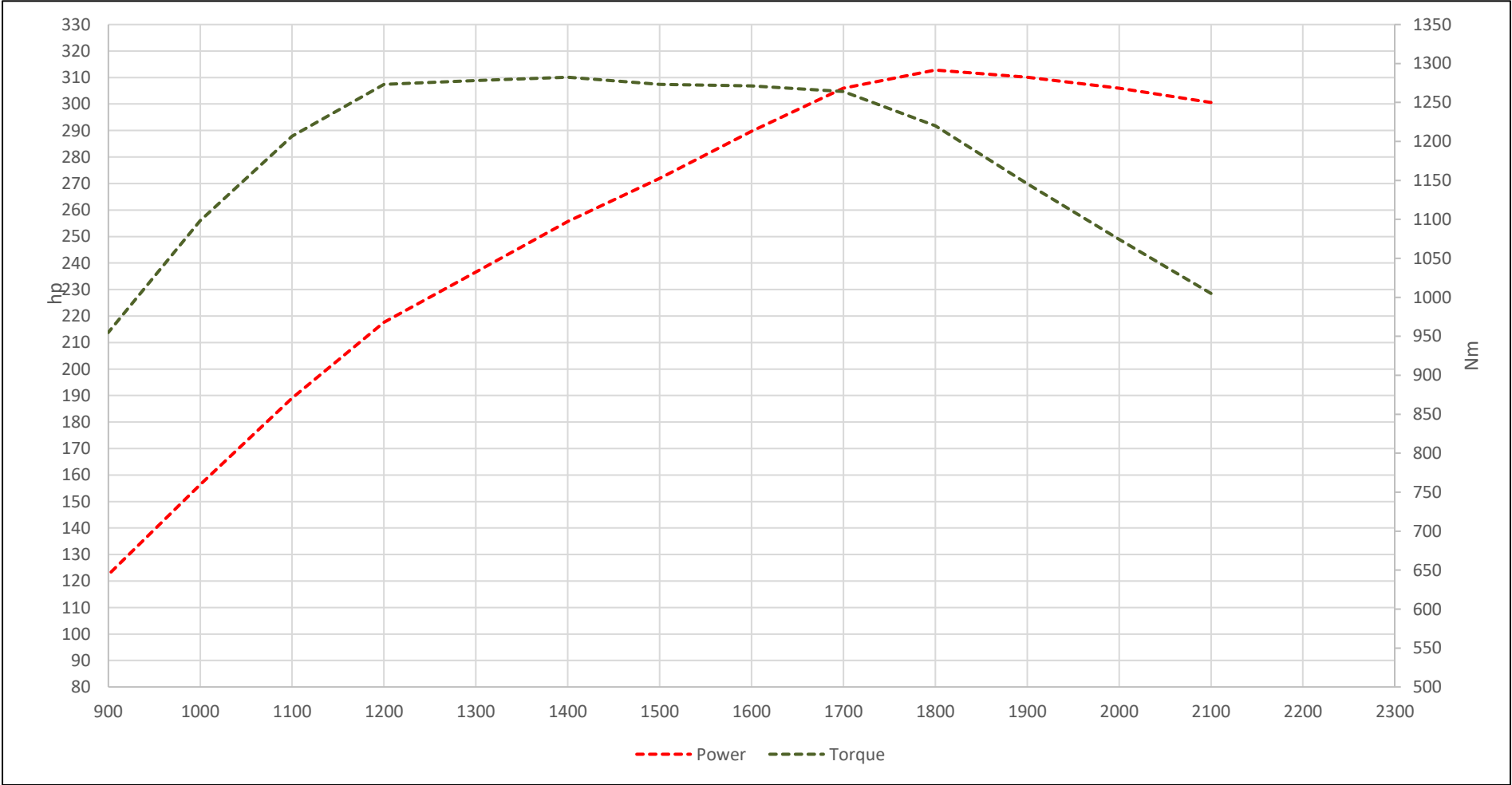
ENGINE CURVES

X8.627 POWER & TORQUE CURVES



ENGINE CURVES

X8.631 POWER & TORQUE CURVES





## ENGINE SPEC'S

MODEL		X8.627	X8.631
ENGINE PERFORMANCES			
Rated power	HP/kW	250 / 184	301 / 221
Max power	HP/kW	273 / 201	313 / 230
Rated engine speed	rpm	2100	
Engine speed - max power	rpm	1800	
Max torque without EPM (with EPM)	Nm	1173	1282
Max torque engine speed	rpm	1400	
Torque backup without EPM (with EPM)		40%	28%
Manufacturer brand		FPT	
Engine type - Installation type		NEF 67 – iso-mounted engine with eVGT	
Exhaust post-treatment Stage V / Tier 4 Final		HI-eSCR2	
No. of Cyls / Displacements / Valves		6 / 6,7 litres / 24	
Air filter system		air filter with pre-cleaning stage and dust ejector	
Air inlet system		Electronic Variable Turbocharger with intercooler	
Fuel injection system		high pressure common rail electronically controlled	
Maintenance		1000 hours interval maintenance	
Cooling system		matrix radiator pack - coolers open out from a single latch	
Viscotronic fan		●	
CAPACITIES			
Fuel tank	litres	550	
AdBlue / DEF tank	litres	81	
Cooling system	litres	30	

ENGINE SPEC'S

MODEL		X8.627
ENGINE PERFORMANCES		
Rated power	HP/kW	292 / 215
Max power	HP/kW	305 / 224
Rated engine speed	rpm	2100
Engine speed - max power	rpm	1800
Max torque without EPM (with EPM)	Nm	1247
Max torque engine speed	rpm	1400
Torque backup without EPM (with EPM)		28%
Manufacturer brand		FPT
Engine type - Installation type		NEF 67 – iso-mounted engine with eVGT
Exhaust post-treatment Stage V / Tier 4 Final		HI-eSCR2
No. of Cyls / Displacements / Valves		6 / 6,7 litres / 24
Air filter system		air filter with pre-cleaning stage and dust ejector
Air inlet system		Electronic Variable Turbocharger with intercooler
Fuel injection system		high pressure common rail electronically controlled
Maintenance		1000 hours interval maintenance
Cooling system		matrix radiator pack - coolers open out from a single latch
Viscotronic fan		•
CAPACITIES		
Fuel tank	litres	550
Cooling system	litres	30

## MATRIX COOLING SYSTEM

Up to 90° hood opening angle

Single handle release

Easy access maintenance





## MATRIX COOLING SYSTEM

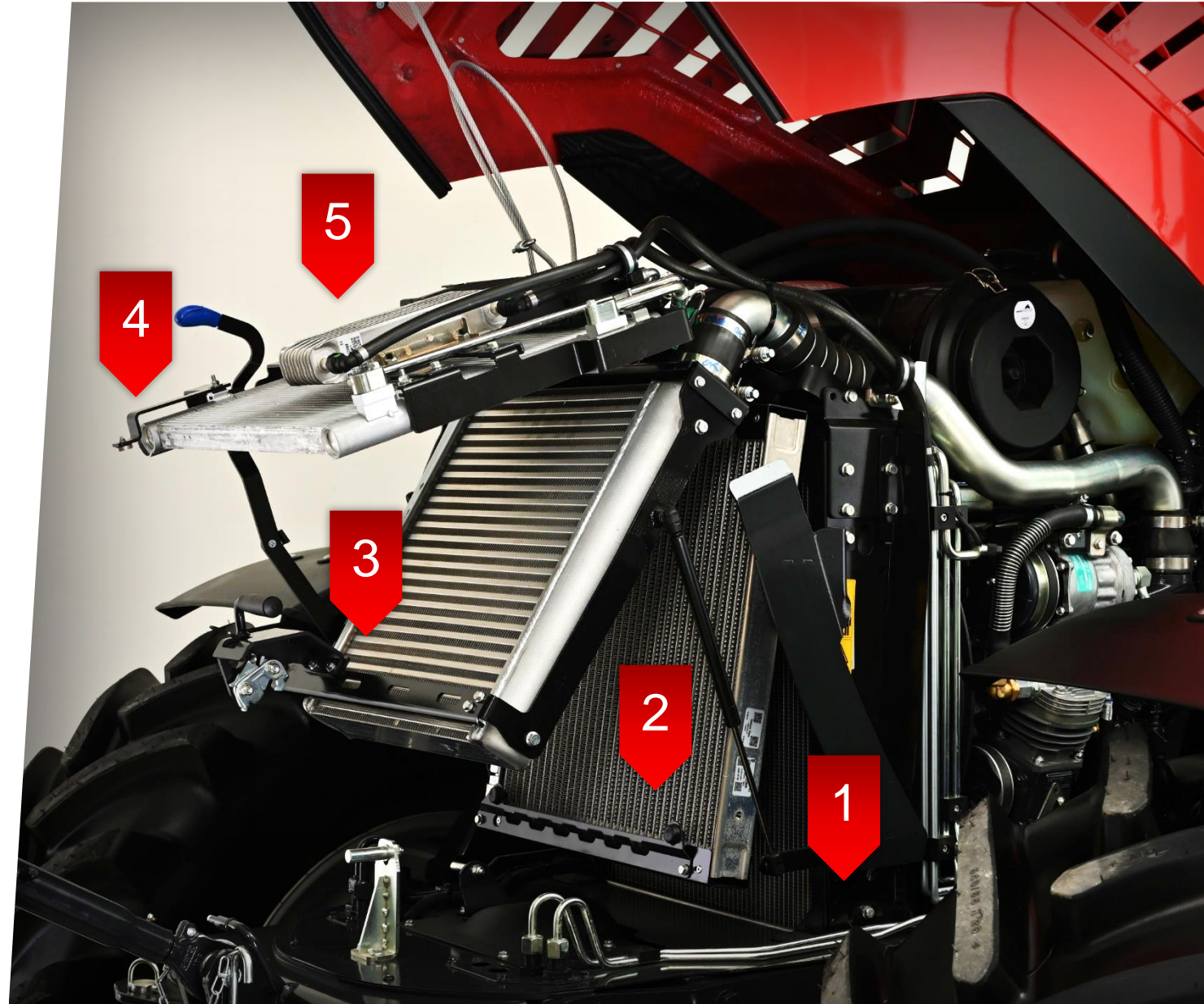
Up to 90° hood opening angle

Single handle release

Easy access maintenance

Matrix parts opening system:

- 1 Water radiator
- 2 Oil / fuel radiator
- 3 Intercooler
- 4 Air conditioning condenser
- 5 Front PTO oil radiator



### ENGINE BRAKE SYSTEM

By using the electronic motorized throttle valve of the turbocharger, the operator is allowed to increase the brake torque by pressing the Engine Brake pedal [1] in combination with the tractor's brakes [2].





## **BENEFITS & COMPETITIVE ADVANTAGES**

New NEF67 eVGT Stage V engine with improved fuel-injection strategy

**PROVEN LOW FUEL CONSUMPTION & EMISSIONS**

**IMPROVED OVER-ALL PERFORMANCES**

6 cyl iso-mounted engine installation

**OUTSTANDING STABILITY & STRONGNESS**

**ENHANCED DESIGN & REDUCED TURNING RADIUS**

New single-piece hood with 90° opening angle

**INCREASED SERVICEABILITY FOR ENGINE & UNDER-HOOD COMPONENTS**

External blow-by filter

**EASIER FILTER MAINTENANCE & REPLACEMENT**

Engine brake pedal standard equipped

**GREAT BRAKING PERFORMANCES & MODULABILITY**

**GREAT OPERATOR SAFETY & COMFORT**

### BENEFITS & COMPETITIVE ADVANTAGES

Cooling package with matrix opening system

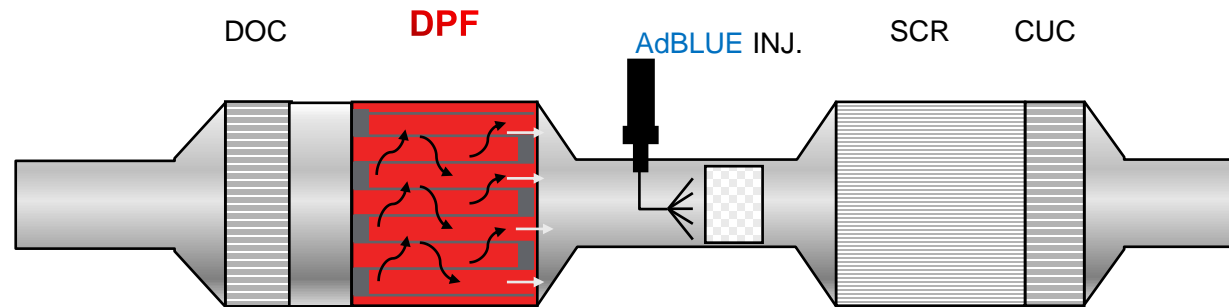
**BEST-IN-CLASS MAINTENANCE SYSTEM**

**EASIER PARTS ACCESS FOR CLEANING & INSPECTIONS**

## HI-ESCR2 STAGE V AFTER TREATMENT SYSTEM

Competitor's after-treatment system with DPF

**STAGE V**  
**DPF PATH**

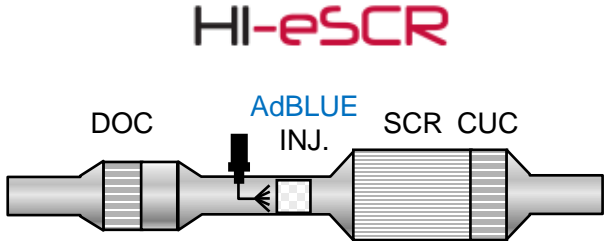


Bad impact on layout  
DPF maintenance needed

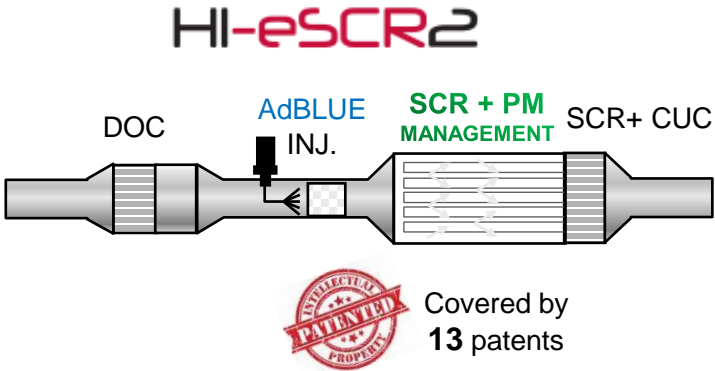
HI-ESCR2 STAGE V AFTER TREATMENT SYSTEM

FPT Hi-eSCR to Hi-eSCR2 after-treatment system's evolution

**STAGE IV  
PREV. PATH**



**STAGE V  
NEW PATH**



No impact on layout  
Maintenance-free ATS

### BENEFITS & COMPETITIVE ADVANTAGES

EGR-free combustion with 1600bar Common-Rail 4 valves system

MAXIMIZED POWER, TORQUE, TRANSIENT RESPONSIVENESS AND FUEL EFFICIENCY

HIGH PRODUCTIVITY THANKS TO TOP POWER AND TORQUE PERFORMANCE WITH MINIMUM FUEL CONSUMPTION

EGR-free single stage turbocharging solution

NO ADDITIONAL COOLING SYSTEM REQUIRED

NO COMPLEX RECIRCULATION SYSTEMS INSTALLED

Maintenance-free Hi-eSCR2 with automatic exhaust flap

AUTOMATIC ATS THERMAL MANAGEMENT

EASE OF SERVICE AND MAXIMIZED MAINTENANCE UPTIME

LOW OPERATING AND MAINTENANCE COSTS

NO ATS REPLACEMENT OR FILTER CLEANING STOP NEEDED LOW COSTS AND MAXIMIZED MACHINE UPTIME

Compact design structural engine block integrated in vehicle chassis

EFFECTIVE, ROBUST, PROVEN AND RELIABLE ARCHITECTURE

SAME COMPACT AND LEAN ENGINE SYSTEM AS PER STAGE IV



## NOTES

# TRANSMISSION & POWER TAKE-OFF

McCORMICK X8 SERIES STAGE V

RPF2

### VT-DRIVE - CONTINUOUS VARIABLE TRANSMISSION

VT-DRIVE Continuous Variable Transmission ZF TMT32 4 stages

Max speed 50 km/h (eco @1580 rpm)

Min speed 40 m/h

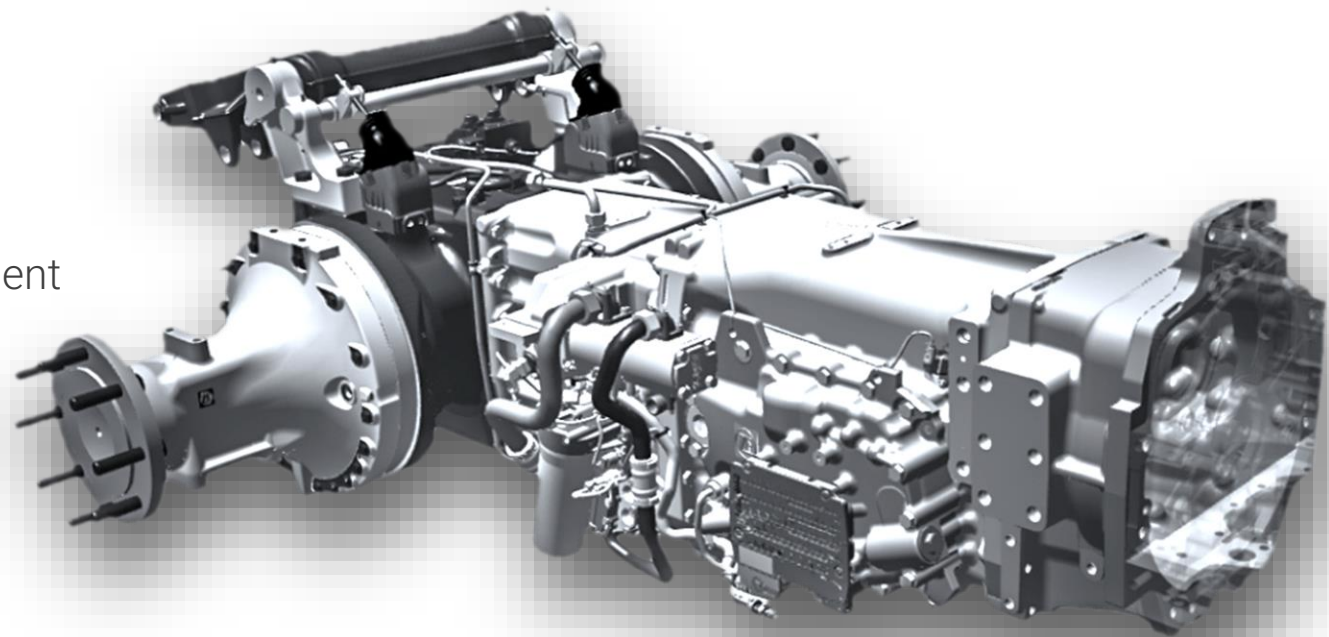
4 planetary gear set

Wet Clutches / No Dog Clutches

RPS with engage modulation management

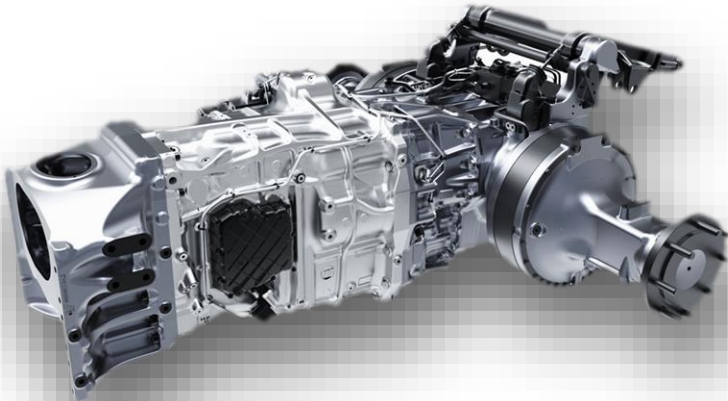
EasyPilot on Multifunction armest for transmission management

3 speeds PTO with electronic speed selector



VT-DRIVE - CONTINUOUS VARIABLE TRANSMISSION

MODEL		X8 VT-DRIVE
TRANSMISSION		
Type		VT-Drive - continuous variable transmission with Smart Power Zero
No. of stages		4
Minimum speed - engine rpm	m/h	40 - 2200
40 km/h - engine speed	rpm	● - 1300
50 km/h - engine speed	rpm	○ - 1580
Transmission control		Easy Pilot with multi-functions armrest
Reverse power shuttle		electro-hydraulic with engage modulation control
REAR PTO		
Type		electro-hydraulic multidisc with engage modulation
Speeds		540 E / 1000 / 1000 E
PTO rated speeds	rpm	1580 / 1943 / 1605
PTO rotation		clockwise (from the rear tractor view)
Rotation - spline shaft type		● 20 splines shaft 1' 3/4" o 21 splines shaft 1' 3/8"



## REAR POWER TAKE-OFF

3 Speed PTO

540 @2000 ERPM

540ECO @1600 ERPM

1000 @2000 ERPM

1000 ECO @1600 ERPM

No power restriction in PTO mode

Modulated & adjustable start up

21 / 20 Spline Shafts

Auto PTO Adjustable Set Point



## **BENEFITS & COMPETITIVE ADVANTAGES**

Stepless VT-Drive transmission with 4 ranges on hydraulic clutches

### **PERFECT SMOOTH SHIFTING BEHAVIOURS**

Stepless VT-Drive transmission with SPZ Smart Power Zero

### **INCREASED OVERALL COMFORT & PERFORMANCES IN FIELD AND IN TRANSPORT OPERATION**

Always max power in PTO and transport

### **PTO MAX POWER IS AVAILABLE ALSO IN STANDSTILL**





# FRONT AXLE & CAB SUSPENSION

McCORMICK X8 SERIES STAGE V

RPF2

### HIGH PIVOT FRONT SUSPENDED AXLE

High Pivoting Front suspended axle with brake (std)

Hydraulically suspended

Electronic suspension management Made by Argotracors

Greater driving safety and comfort

Outstanding comfort on and off road

100% Electrohydraulic 4WD & Diff lock

Automatic Self-levelling

Kit aftermarket one point greasing system

Multidisc brakes

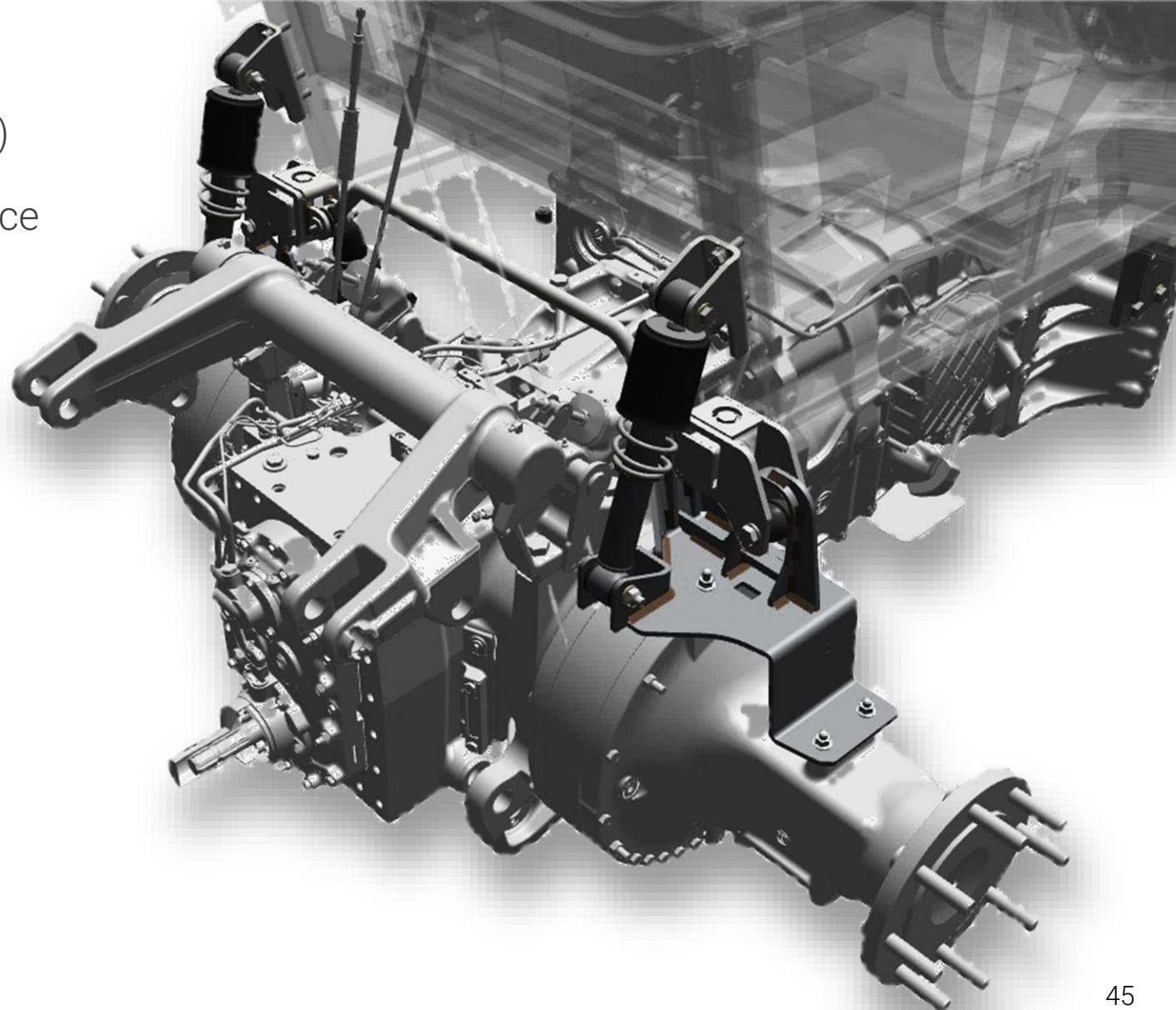
Long life brakes



## CAB SUSPENSION SYSTEM

Mechanical cab suspension system (std on Efficient)

With Pahnard bar for improved stability & performance



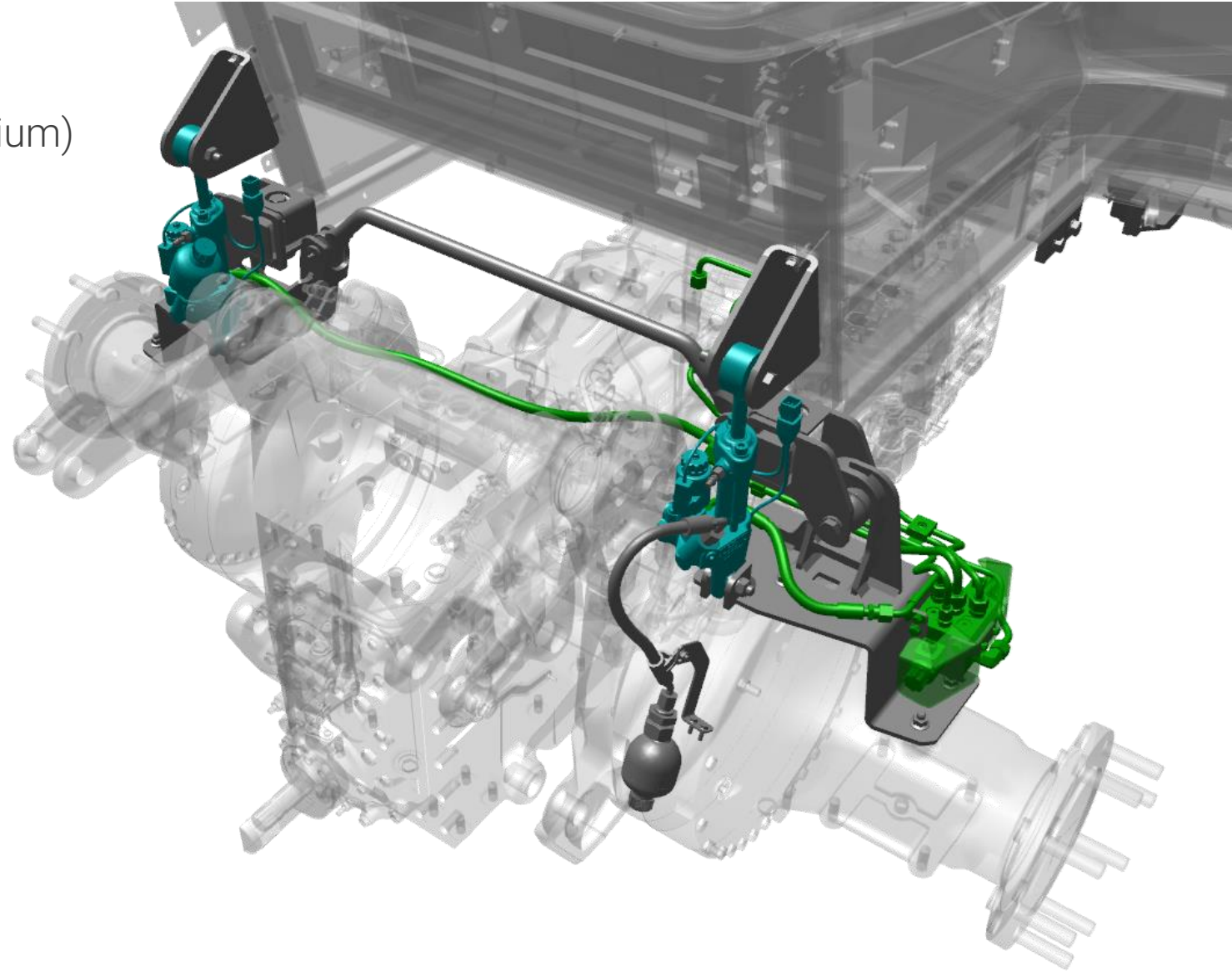


### CAB SUSPENSION SYSTEM

Semi-active cab suspension system (std on Premium)

Outstanding stability & performance

Damping setting menu on DSM



## **BENEFITS & COMPETITIVE ADVANTAGES**

High Pivoting Front suspended axle with brake

**FOR AN OUTSTANDING COMFORT WITH NO COMPROMISES ON DRAFT WORK IN FIELD ON PREMIUM VERSION**

Rear mechanical cab suspensions with panhard schematic system

**FOR COMFORTABLE RIDING IN BOTH FIELD AND ROAD EVEN ON THE EFFICIENT VERSION**

Rear Semi-Active cab suspensions system

**BEST IN CLASS COMFORTABLE RIDING IN BOTH FIELD AND ROAD**



# FRONT HITCH & POWER TAKE-OFF

McCORMICK X8 SERIES STAGE V

RPF2

# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### FRONT HITCH & FRONT POWER TAKE-OFF

Heavy duty front hitch (std on Premium version)

5000 kg front lifting capacity

with additional couplings and remotes

Front PTO (opt.)

1000 rpm @ 2000 engine rpm

Electrical switches for front hitch control

CAT 3

CB front weight – 1800kg



### FRONT HITCH & FRONT POWER TAKE-OFF SPEC'S

MODEL		X8 VT-DRIVE
<b>FRONT AND REAR AXLES</b>		
Front rigid axle		• (Efficient)
Front suspended axle		• High Pivoting Front suspended axle with brake (Premium)
Traction type		electro-hydraulic MFWD
Front differential lock		wet clutch 100% electro-hydraulic
Rear differential lock		wet clutch 100% electro-hydraulic
Rear axle - flanged type		•
Rear axle - bar axle type		○
<b>BRAKING SYSTEM</b>		
Front braking system		with multidisc brakes
Rear braking system		5 bath oil cooled discs
Trailer braking system		2 or 2+1 lines pneumatic system MR with or without single line hydraulic system, 2 line hydraulic system MR (40 km/h only)
Engine Brake		•
<b>FRONT 3-POINT HITCH</b>		
Front hitch electronically controlled		• - with control position
Category - hitch type		III N - quick hitch type
Max lifting capacity at the hitches	kg	5000
<b>FRONT PTO</b>		
Type		○ - electro-hydraulic multidisc with engage modulation
Speed		1000
PTO rated speed	rpm	1920
Rotation - spline shaft type		○ - clockwise (from the front tractor view) • 6 splines shaft 1' 3/8"
Rotation - spline shaft type (NAO)		○ - counter clockwise (from the front tractor view) • 21 splines shaft 1' 3/8"

## NOTES

# HYDRAULICS & REAR LINKAGE

McCORMICK X8 SERIES STAGE V

RPF2

### EFFICIENT HYDRAULIC CONFIGURATIONS

CCLS (closed center load sensing system hydraulic circuit)

- 160 l/min for standard axial pump

- 115 l/min for electronic steering unit

- 212 l/min UltraFlow pump available (opt)

4 rear EHR spool valves

6 rear EHR spool valves (opt)

140 l/min for single rear spool valve & 100 l/min for front spool valve

3 ways flow diverter with 3 push-pull connectors (opt)

60 l/min diverter flow rate





### PREMIUM HYDRAULIC CONFIGURATIONS

CCLS (closed center load sensing system hydraulic circuit)

- 160 l/min for standard axial pump

- 115 l/min for electronic steering unit

- 212 l/min UltraFlow pump available (opt)

4 rear EHR spool valves + 3 front EHR spool valves

6 rear EHR spool valves + 3 front EHR spool valves (opt)

140 l/min for single rear spool valve & 100 l/min for front spool valve

One of the front spool valve dedicated to the Front Hitch

3 ways flow diverter with 3 push-pull connectors (opt)

60 l/min diverter flow rate



## REAR LINKAGE CONFIGURATIONS

Rear linkage Cat III – Cat IV N (opt)

Quick hitches

Max rear lifting capacity at the hitches 12000kg  
with additional cylinders Ø120 mm

Hitch control switches on both fenders



## HYDRAULICS & REAR LINKAGE SPEC'S

MODEL		X8 VT-DRIVE
<b>HYDRAULIC SYSTEM</b>		
Hydraulic piston pump with CCLS		•
Flow rate		• 160 - ○ 212 with UltraFlow pump
Steering dedicated pump - flow rate		• 115 l/min with electronic steering unit
Rear spool valves Efficient		• 4 EHR ○ 6 EHR – 140 rear
Rear spool valves Premium		• 4 EHR + 3 EHR ○ 6 EHR + 3 EHR – 140 rear / 100 front
Flow divider with flow selector		○ 3 sections with dedicated push-pull connectors
Flow divider section flow rate		60 each section
Free flow return		•
Power Beyond ready		○ with free flow return
Power Beyond		○ with push-pull and free flow return
Mid mounted spool valves - flow rate		2 electro-hydraulics with multi-functions joystick - 100 l/min
Front Loader ready kit		○
Hydraulic oil take out	litres	70
<b>REAR 3-POINT HITCH</b>		
Rear hitch electrical control		lower pins draft control, control position, intermix and floating
Category - hitch type		• III - quick hitches ○ IV N – quick hitches
Max lifting capacity at the hitches	kg	• 12000

## **BENEFITS & COMPETITIVE ADVANTAGES**

Ultra-Flow hydraulic flow rate

**FOR CUSTOMERS WHO NEED HIGHER OIL FLOW DEMAND FOR LOADERS AND TRAILERS' OPERATIONS**

Separate hydraulic circuit for transmission & services

**TO AVOID OIL TRANSMISSION CONTAMINATION AND MAINTAIN THE OPTIMAL OPERATIONAL OIL TEMPERATURE FOR HIGH LEVEL OF PERFORMANCE**

Flow selector with up to 6 push-pull connectors (also with mechanical rear remote valves)

**INCREASED WIDE HYDRAULIC REAR SPOOLS CONFIGURATION**

Power beyond ready & free flow return in standard equipment

**FOR EVERY IMPLEMENT WHICH REQUEST HIGH DRAIN OIL FLOW WITH THE NEED OF THE POWER BEYOND**

## NOTES



# CAB & ON-BOARD TECHNOLOGY

McCORMICK X8 SERIES STAGE V

RPF2

### PREMIERE CAB FEATURES

Spacious cab made of soft-touch materials

4 pillars high visibility cab

Ergonomic RH console design

One-piece windscreen

Openable roof hatch

DAB Radio with MP3 & sound system

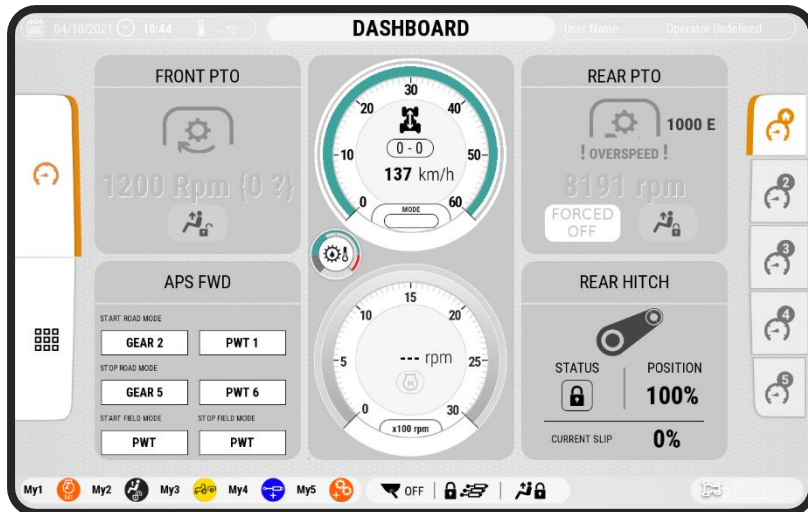


# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### DSM Data Screen Manager - Dashboard Menu

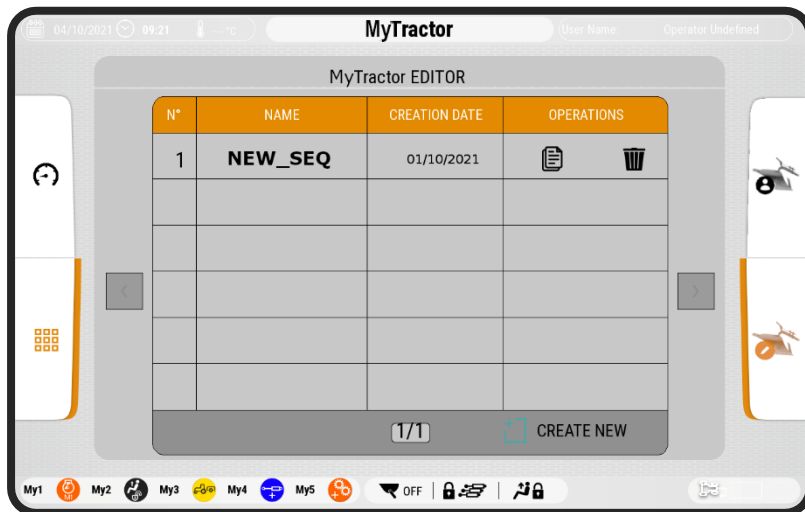
The Dashboard can be easily configured in up to 5 different scenarios by the operator.





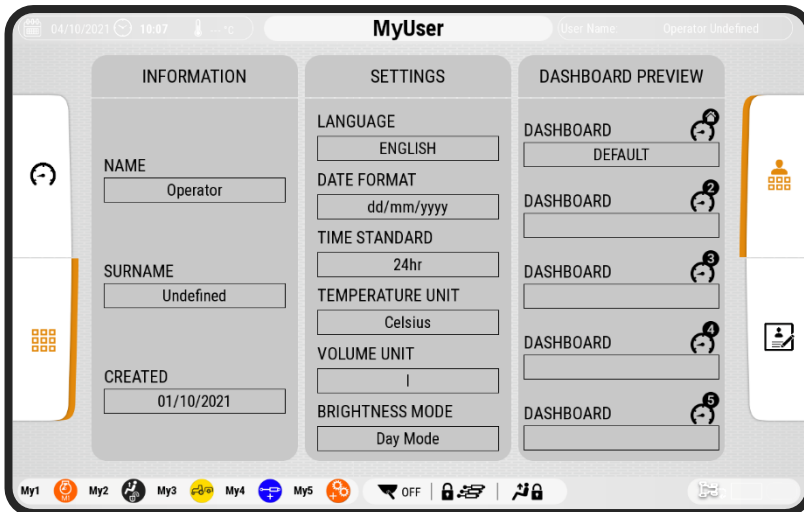
### DSM Data Screen Manager - MyTractor Menu

With the MyTractor menu it is possible to store all the tractor parameters already created from the other DSM menus (e.. MyHMF sequences or MyFunctions configurations) and recall them in one go.



### DSM Data Screen Manager - MyUser Menu

With the MyUser menu, especially when the tractor is used by several operators, it is useful to create the "Mike Red" user menu, set all the related DSM parameters and recall them simply by loading the "Mike Red" MyUser menu created.



The screenshot shows the 'MyUser' menu interface. At the top, it displays the date '04/10/2021', time '10:07', and user information 'User Name: Operator Undefined'. The menu is divided into three main sections: INFORMATION, SETTINGS, and DASHBOARD PREVIEW. The INFORMATION section includes fields for NAME (Operator), SURNAME (Undefined), and CREATED (01/10/2021). The SETTINGS section includes options for LANGUAGE (ENGLISH), DATE FORMAT (dd/mm/yyyy), TIME STANDARD (24hr), TEMPERATURE UNIT (Celsius), VOLUME UNIT (I), and BRIGHTNESS MODE (Day Mode). The DASHBOARD PREVIEW section shows a list of five dashboard options, each with a user icon and a number (1-5). A bottom bar contains icons for My1 through My5, a power button, and various system status icons.

SECTION	ITEM	VALUE
INFORMATION	NAME	Operator
	SURNAME	Undefined
	CREATED	01/10/2021
SETTINGS	LANGUAGE	ENGLISH
	DATE FORMAT	dd/mm/yyyy
	TIME STANDARD	24hr
	TEMPERATURE UNIT	Celsius
	VOLUME UNIT	I
	BRIGHTNESS MODE	Day Mode
DASHBOARD PREVIEW	DASHBOARD 1	DEFAULT
	DASHBOARD 2	
	DASHBOARD 3	
	DASHBOARD 4	
	DASHBOARD 5	





### DSM Data Screen Manager - MyLights Menu

The MyLights menu allows the operator to configure the behavior of the lights in the 2 available patterns.





### DSM Data Screen Manager - MyLights Menu

18 halogen work lights on Efficient version

20 LED work lights on Premium version

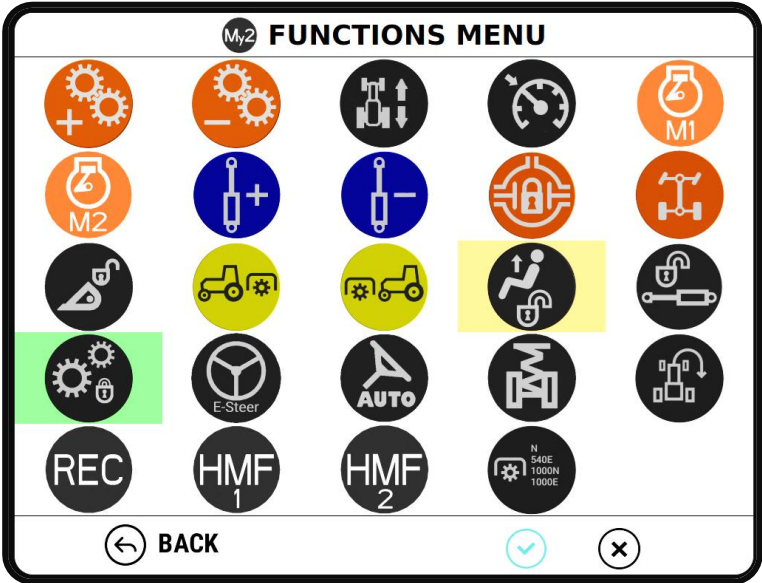
Higher visibility with lower battery current  
consumption

Up to 6x lamps lifetime



DSM Data Screen Manager - MyFunctions Menu

When DSM is included in the tractor configuration, the operator can set up to 5 functions via the dedicated MyFunctions menu.



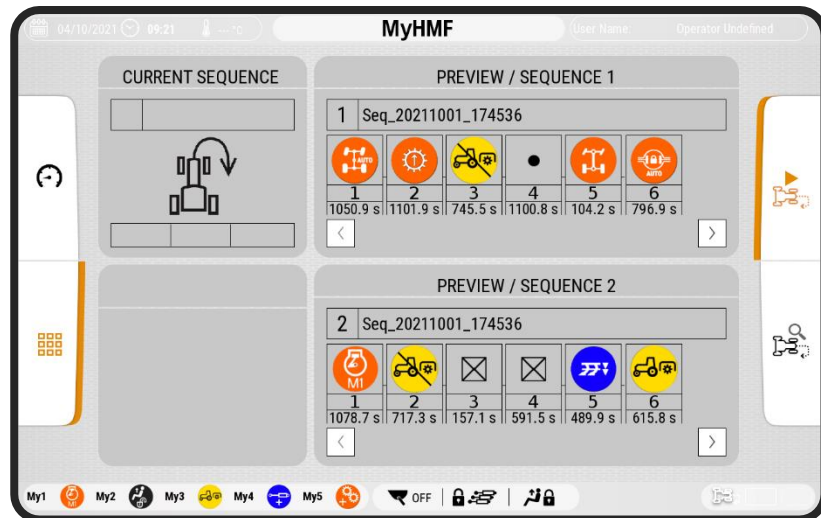


# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### DSM Data Screen Manager - MyHMF Menu

The operator can set or modify infinite management sequences at the headland simply through the dedicated menu even with the tractor stopped.



### ISOBUS & PRECISION STEERING MANAGEMENT

DSM, rear ISObus & PSM ready (std)

DSM, rear ISObus & PSM kit EGNOS (opt)

RTK NTRIP upgrade kit available at AT Spare Part





## McCORMICK FLEET MANAGEMENT

### Main features

Fleet management

Fuel consumption analysis

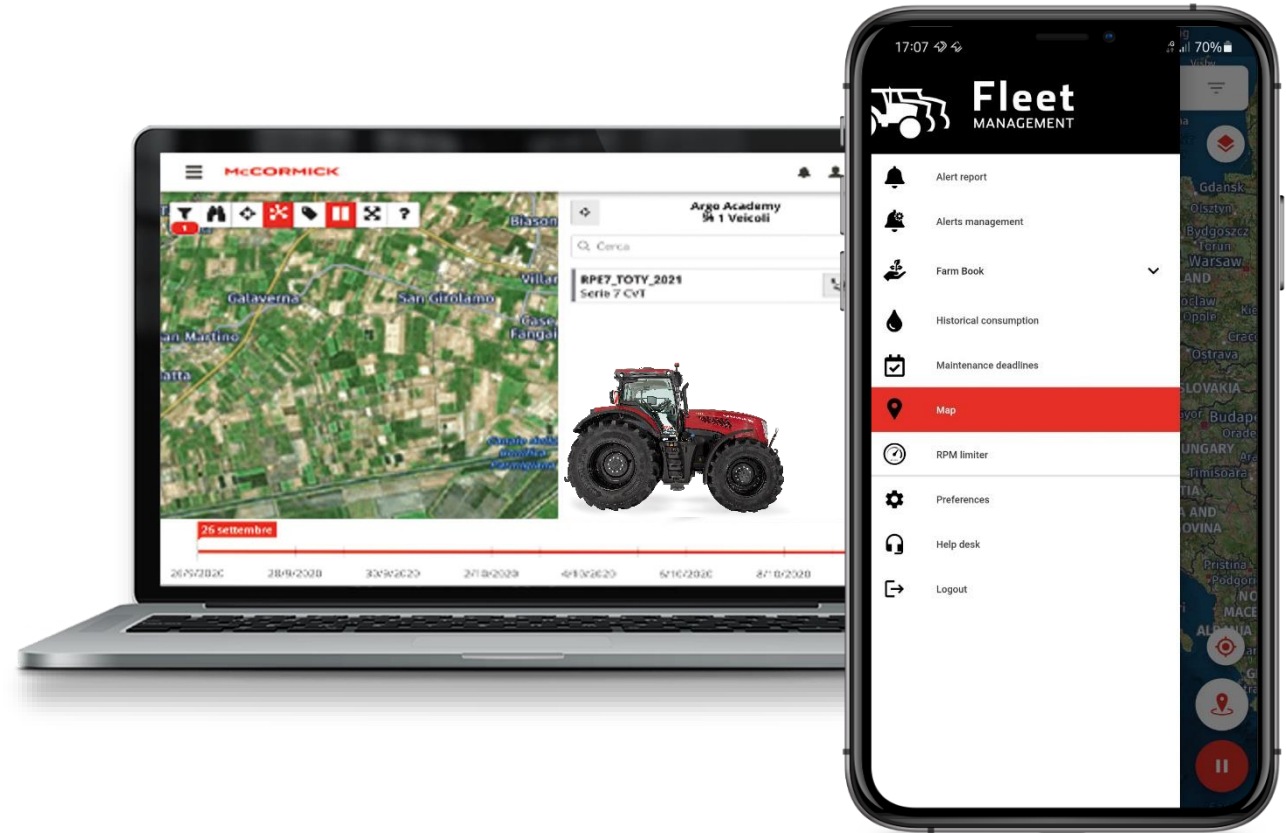
Geofence technology

GPS position

Tractor data records

Maintenance schedule

Tractors status & Alarms



## McCORMICK REMOTE DIAGNOSTIC MANAGEMENT

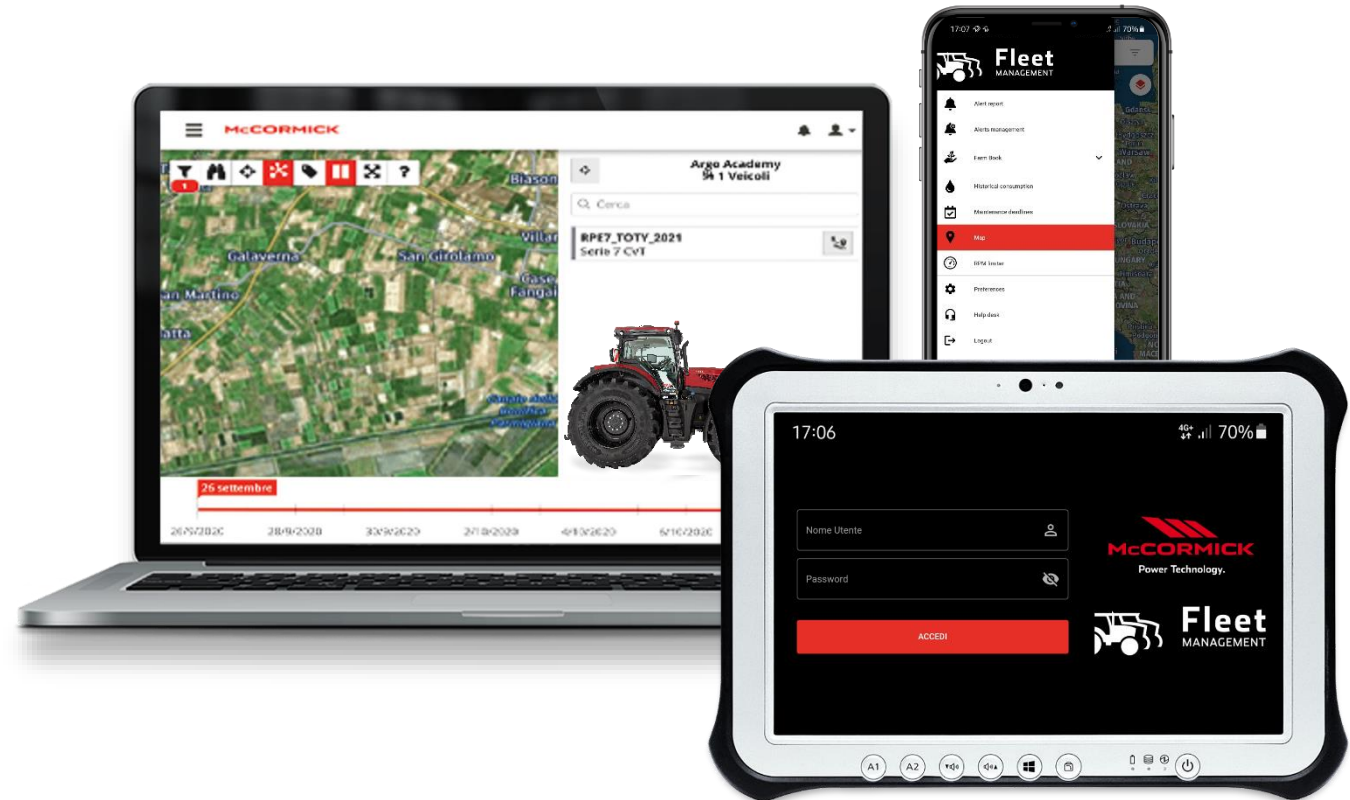
### Main features

Tractor monitoring system

Full fault finding & Problem solving

Remote controller SW updates

Increased uptime, reduced dealer costs





CAB SPEC'S

MODEL	X8 VT-DRIVE
CAB SPECIFICATIONS	
Première Cab	● 4 post
McCormick mechanical cab suspension	○ mechanical cab suspension system (Efficient)
McCormick semi-active cab suspension	● electro-hydraulic semi-active suspension (Premium)
Noise level in the cockpit	70 dB(A)
Automatic air conditioning control	●
Pneumatic seat Deluxe	● low frequency, swivel and height adjustments, manual weight control, lumbar support and side suspension
Pneumatic seat Super Deluxe	○ Dynamic Damping System, climatized, alcantara material, swivel and height adjustments, automatic weight control, lumbar support and side suspension
Trainer seat "hide away"	●
Easy Pilot with multi-functions armrest	●
DSM Data Screen Manager	●
MyFunctions	●
MyLights	●
MyHMF	●
Radio system	● radio DAB, Mp3, 4 speakers, BT, aux-in, integrated microphone
Halogen working lights	● 18 (Efficient)
LED working lights	● 20 (Premium)

ON-BOARD SPEC'S

MODEL	X8 VT-DRIVE
ON-BOARD TECHNOLOGY	
Front ISObus	○
Rear ISObus	●
PSM & EazySteer - ready	●
PSM & EazySteer - full kit EGNOS	○
Fleet Management ready	●
Fleet & Remote Diagnostic management & xFarm Pro Pack - 1 year	● - Italy, France, Germany & Austria, UK & ROI, Spain & Portugal, Poland ○ - other countries
Fleet & Remote Diagnostic management & xFarm Pro Pack - 3 years	○
Fleet & Remote Diagnostic management & xFarm Pro Pack - 5 years	○

## **BENEFITS & COMPETITIVE ADVANTAGES**

Renewed multi functions armrest with new button layout → HMF buttons

**IMPROVED HMF RECORDING AND RECALL TO INCREASE THE WORK PRODUCTIVITY AND COMFORT**

Renewed multi functions with new button layout → two engine memo buttons

**TO STORE ONE MORE ENGINE RPM MEMO TO IMPROVE THE EFFICIENCY OF THE TRACTOR DURING FIELD OPERATIONS**

Renewed armrest with new button layout → PTO buttons front and rear

**FOR A MORE COMFORTABLE START AND STOP OPERATION FOR PTO WORKS**

New command lever with MyFunctions buttons

**AVAILABLE WITH AND WITHOUT DSM, TO HAVE THE POSSIBILITY TO CONFIGURE THE 5 BUTTONS WITH EVERY TRACTOR FUNCTIONS. IT'S POSSIBLE TO STORE UP TO 5 CONFIGURATIONS**

## **BENEFITS & COMPETITIVE ADVANTAGES**

New MyHMF advanced (only with DSM)

THE ADVANCED HMF WITH THE POSSIBILITY TO SET, TUNE AND EDIT THE SEQUENCE DIRECTLY ON DSM

New MyLights menu (only with DSM)

TO STORE UP TO TWO LIGHTS CONFIGURATIONS MANAGING THE WORKING LIGHTS. AUTO-FUNCTIONS AND CORNERING LIGHT AVAILABLE. TO GIVE TO CUSTOMER THE BEST WORKING EXPERIENCE ALSO DURING NIGHT SHIFT

New Tractor menu (only with DSM)

THE NEW MENU TO STORE THE TRANSMISSION, HYDRAULICS AND COMMAND CONFIGURATIONS TOWARD THE DIFFERENT FIELD OPERATION TYPES

## NOTES

# WEIGHTS & DIMENSIONS

McCORMICK X8 SERIES STAGE V

RPF2



WEIGHT AND DIMENSIONS SPEC'S

MODEL		X8 VT-DRIVE
WEIGHT AND DIMENSIONS		
Wheelbase	mm	3000
Max roof cab height (1)	mm	3354 (3445 with PSM) (2)
Max roof cab height to rear axle center (1)	mm	2400 (2491 with PSM)
Max lenght with front weights	mm	5360 (2)
Steering radius	mm	6569 (2)
Weight (3)	kg	10800
Gross vehicle weight	kg	16000
Max front - rear tires (index IR)	mm	650/65R34 (IR 775) - 900/60R42 (IR 1025)
Front weight support	mm	Fixed front hitch arms on Efficient version
Front weight ballast		o – 1800
Rear weights - no. x weight	kg	o – 300 x 2 or 600 x 2

NOTES (1) Without beacon lights. (2) Measured with tires 650/65R34 - 900/60R42. (3) Measured with average spec's

## NOTES

# COMPETITORS

McCORMICK X8 SERIES STAGE V

RPF2

McCORMICK X8 SERIES STAGE V vs NEW HOLLAND T7HD AUTOCOMMAND



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs NEW HOLLAND T7HD AUTOCOMMAND

PRODUCT FAMILY	X8 VT-DRIVE		T7 HD AUTO COMMAND		
MODEL	X8.627	X8.631	T7.275	T7.290	T7.315
REFERENCE MODEL	T7.275	T7.315	X8.627		X8.631
ENGINE					
P MAX – PULLING POWER [hp]	273	313	273	288	313
P MAX BOOST - PTO&TRANSPORT [hp]	NA	NA	NA	NA	NA
MANUFACTURER	NEF 67		NEF67		
INSTALLATION TYPE	ISO MOUNTED		STRUCTURAL		
CYLINDERS/DISPLACEMENT (cm3)	6 / 6700		6 / 6700		
AIR INTAKE SYSTEM	eVGT - INTERCOOLER		eVGT - INTERCOOLER		
AFTER TREATMENT	STAGE V - HI-eSCR2		STAGE V - HI-eSCR2		
FUEL TANK / DEF	550 / 71		601/?		
TRANSMISSION					
TYPE	VT-DRIVE - ZF TMT32 CVT		AUTO COMMAND - CVT		
RANGES	4 WITH HYDRAULIC CLUTCHES		2 WITH DOG CLUTCH		
MAX SPEED	40 / 50		40 / 50		
FRONT AXLE					
SUSPENDED AXLE	HIGH PIVOT WITH PARALLELOGRAM (STD)		TERRAGLIDE II - CENTRAL PIVOT (STD)		
SUSPENDED AXLE WITH BRAKES	STD		STD		
DIFFERENTIAL LOCK TYPE	ELECTRO-HYDRAULIC		ELECTRO-HYDRAULIC		



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs NEW HOLLAND T7HD AUTOCOMMAND

PRODUCT FAMILY	X8 VT-DRIVE		T7 HD AUTO COMMAND		
MODEL	X8.627	X8.631	T7.275	T7.290	T7.315
REFERENCE MODEL	T7.275	T7.315	X8.627		X8.631
HYDRAULICS					
TYPE	CCLS		CCLS		
FLOWRATE [l/min]	160 / 212		166 / 212		
REAR SPOOL VALVES	REAR 4E-6E - FRONT 3E+ flow selector 3 ways		REAR 4E-5E - FRONT 1-3E		
POWER BEYOND	OPT		OPT		
3PT HITCH					
REAR 3-POINT HITCH	CAT III / CAT4 N WITH QUICK HOOKS		CAT III / CAT4 N WITH QUICK HOOKS		
MAX REAR LIFT CAPACITY [kg]	12000		11058		
FRONT 3-POINT HITCH	CAT3N		CAT3N		
MAX FRONT LIFT CAPACITY [kg]	5000		6016		
POWER TAKE-OFF					
TYPE	ELECTRO-HYDRAULIC WITH MODULATION		ELECTRO-HYDRAULIC WITH MODULATION MULTI-DISC		
SPEEDS	540E/1000/1000E		540/540E/1000/1000E		
CAB & OPERATOR AREA					
SUSPENDED CAB TYPE	SEMI ACTIVE CAB		MECHANICAL		
WEIGHTS & DIMENSIONS					
WHEELBASE	3000		2995		
AVERAGE SHIPPING WEIGHT	11000		11530		
GROSS VEHICLE WEIGHT	16000		16800		
MAX REAR TYRES	900/60R42		90060R42		





### McCORMICK X8 SERIES STAGE V vs NEW HOLLAND T7HD AUTOCOMMAND

Matrix opening cooling package

Iso-mounted engine

ZF TMT32 CVT transmission with 4 stages with hydraulic clutches and planetary drives

Wide offering for the hydraulic configurations

Greater rear lifting capacity

Semi - active cab suspension

Tractor structure with ISO mounted engine



McCORMICK X8 SERIES STAGE V vs CLAAS AXION 800 900 CMATIC



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs CLAAS AXION 800 900 CMATIC

PRODUCT FAMILY	X8 VT-DRIVE		CLAAS AXION 800 900 CMATIC		
MODEL	X8.627	X8.631	850	870	920
REFERENCE MODEL	850	920	X8.627		X8.631
ENGINE					
P MAX – PULLING POWER [hp]	273	313	264	280	325
P MAX BOOST - PTO&TRANSPORT [hp]	NA	NA	NA	295	NA
MANUFACTURER	NEF 67		NEF67		
INSTALLATION TYPE	ISO MOUNTED		STRUCTURAL		
CYLINDERS/DISPLACEMENT (cm3)	6 / 6700		6 / 6700	6 / 6700	6 / 8700
AIR INTAKE SYSTEM	eVGT - INTERCOOLER		eVGT - INTERCOOLER		
AFTER TREATMENT	STAGE V - HI-eSCR2		STAGE V - HI-eSCR2		
FUEL TANK / DEF	550 / 71		455/?	455/?	640/?
TRANSMISSION					
TYPE	VT-DRIVE - ZF TMT32 CVT		C-MATIC - ZF TMT CVT		
RANGES	4 WITH HYDRAULIC CLUTCHES		4 WITH HYDRAULIC CLUTCHES		
MAX SPEED	40 / 50		40 / 50		
FRONT AXLE					
SUSPENDED AXLE	HIGH PIVOT WITH PARALLELOGRAM (STD)		CENTRAL PIVOT (STD)		
SUSPENDED AXLE WITH BRAKES	STD		STD		
DIFFERENTIAL LOCK TYPE	ELECTRO-HYDRAULIC		ELECTRO-HYDRAULIC		



### McCORMICK X8 SERIES STAGE V vs CLAAS AXION 800 900 CMATIC

PRODUCT FAMILY	X8 VT-DRIVE		CLAAS AXION 800 900 CMATIC		
MODEL	X8.627	X8.631	850	870	920
REFERENCE MODEL	850	920	X8.627		X8.631
HYDRAULICS					
TYPE	CCLS		CCLS		
FLOWRATE [l/min]	160 / 212		110 / 150 / 205		150 / 220
REAR SPOOL VALVES	REAR 4E - 6E - FRONT 3E + flow selector 3 ways		3M - 4M - 3E - 7E		3E - 8E
POWER BEYOND	OPT		OPT		
3PT HITCH					
REAR 3-POINT HITCH	CAT III / CAT4 N WITH QUICK HOOKS		CAT III / CAT4 N WITH QUICK HOOKS		
MAX REAR LIFT CAPACITY [kg]	12000		10200	10200	10500
FRONT 3-POINT HITCH	CAT3N		CAT3N		
MAX FRONT LIFT CAPACITY [kg]	5000		4700 / 5900	4700 / 5900	5185
POWER TAKE-OFF					
TYPE	ELECTRO-HYDRAULIC WITH MODULATION		ELECTRO-HYDRAULIC WITH MODULATION MULTI-DISC		
SPEEDS	540E/1000/1000E		2 - 3 - 4		
CAB & OPERATOR AREA					
SUSPENDED CAB TYPE	SEMI ACTIVE CAB		MECHANICAL		
WEIGHTS & DIMENSIONS					
WHEELBASE	3000		2980	2980	3150
AVERAGE SHIPPING WEIGHT	11000		9050 / 9450	9050 / 9450	12500
GROSS VEHICLE WEIGHT	16000		?	?	18000
MAX REAR TYRES	900/60R42		90060R42		





### McCORMICK X8 SERIES STAGE V vs CLAAS AXION 800 900 CMATIC

Matrix opening cooling package

Iso-mounted engine

Greater rear lifting capacity

Semi - active cab suspension

Tractor structure (800)



McCORMICK X8 SERIES STAGE V vs VALTRA S





# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs VALTRA S

PRODUCT FAMILY	X8 VT-DRIVE		VALTRA S	
MODEL	X8.627	X8.631	S274	S294
REFERENCE MODEL	S274	S294	X8.627	X8.631
ENGINE				
P MAX – PULLING POWER [hp]	273	313	270	295
P MAX BOOST - PTO&TRANSPORT [hp]	NA	NA	300	325
MANUFACTURER	NEF 67		AGCO POWER	
INSTALLATION TYPE	ISO MOUNTED		ISO MOUNTED	
CYLINDERS/DISPLACEMENT (cm3)	6 / 6700		6 / 8400	
AIR INTAKE SYSTEM	eVGT - INTERCOOLER		TURBO INTERCOOLER	
AFTER TREATMENT	STAGE V - HI-eSCR2		STAGE V - DOC+SCR	
FUEL TANK / DEF	550 / 71		600/?	
TRANSMISSION				
TYPE	VT-DRIVE - ZF TMT32 CVT		AGCO CVT	
RANGES	4 WITH HYDRAULIC CLUTCHES		2 WITH DOG CLUTCH	
MAX SPEED	40 / 50		40 / 50	
FRONT AXLE				
SUSPENDED AXLE	HIGH PIVOT WITH PARALLELOGRAM (STD)		AIR SUSPENDED CENTRAL PIVOT (STD)	
SUSPENDED AXLE WITH BRAKES	STD		STD	
DIFFERENTIAL LOCK TYPE	ELECTRO-HYDRAULIC		ELECTRO-HYDRAULIC	



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs VALTRA S

PRODUCT FAMILY	X8 VT-DRIVE		T7 HD AUTO COMMAND	
MODEL	X8.627	X8.631	S274	S294
REFERENCE MODEL	T7.275	T7.315	X8.627	X8.631
HYDRAULICS				
TYPE	CCLS		CCLS	
FLOWRATE [l/min]	160 / 212		205	
REAR SPOOL VALVES	REAR 4E - 6E - FRONT 3E+ flow selector 3 ways		4E +3E - 6E + 3E	
POWER BEYOND	OPT		OPT	
3PT HITCH				
REAR 3-POINT HITCH	CAT III / CAT4 N WITH QUICK HOOKS		CAT III / CAT4 N WITH QUICK HOOKS	
MAX REAR LIFT CAPACITY [kg]	12000		12000	
FRONT 3-POINT HITCH	CAT3N		CAT3N	
MAX FRONT LIFT CAPACITY [kg]	5000		5000	
POWER TAKE-OFF				
TYPE	ELECTRO-HYDRAULIC WITH MODULATION		ELECTRO-HYDRAULIC WITH MODULATION MULTI-DISC	
SPEEDS	540E/1000/1000E		540/540E/1000/1000E	
CAB & OPERATOR AREA				
SUSPENDED CAB TYPE	SEMI ACTIVE CAB		AIR SUSPENDED CAB	
WEIGHTS & DIMENSIONS				
WHEELBASE	3000		3105	
AVERAGE SHIPPING WEIGHT	11000		10300 /12000	
GROSS VEHICLE WEIGHT	16000		16000	
MAX REAR TYRES	900/60R42		900/60R42	



### McCORMICK X8 SERIES STAGE V vs VALTRA S

Matrix opening cooling package

ZF TMT32 CVT transmission with 4 stages with hydraulic clutches and planetary drives

Wide offering for the hydraulic configurations



**McCORMICK X8 SERIES STAGE V vs MASSEY-FERGUSON 8S**





McCORMICK X8 SERIES STAGE V vs MASSEY-FERGUSON 8700 DYNA-VT

PRODUCT FAMILY	X8 VT-DRIVE		MASSEY FERGUSON 8700 DYNA-VT		
MODEL	X8.627	X8.631	8727S	8730S	8732S
REFERENCE MODEL	8727S	8730S	X8.627	X8.631	X8.631
ENGINE					
P MAX – PULLING POWER [hp]	273	313	270	295	320
P MAX BOOST - PTO&TRANSPORT [hp]	NA	NA	300	325	350
MANUFACTURER	NEF 67		AGCO POWER		
INSTALLATION TYPE	ISO MOUNTED		ISO MOUNTED		
CYLINDERS/DISPLACEMENT (cm3)	6 / 6700		6 / 8400		
AIR INTAKE SYSTEM	eVGT - INTERCOOLER		TURBO INTERCOOLER		
AFTER TREATMENT	STAGE V - HI-eSCR2		STAGE V - DOC+SCR		
FUEL TANK / DEF	550 / 71		600 / 60		
TRANSMISSION					
TYPE	VT-DRIVE - ZF TMT32 CVT		DYNA-VT - AGCO CVT		
RANGES	4 WITH HYDRAULIC CLUTCHES		2 WITH DOG CLUTCH		
MAX SPEED	40 / 50		40 / 50		
FRONT AXLE					
SUSPENDED AXLE	HIGH PIVOT WITH PARALLELOGRAM (STD)		CENTRAL PIVOT (STD)		
SUSPENDED AXLE WITH BRAKES	STD		STD		
DIFFERENTIAL LOCK TYPE	ELECTRO-HYDRAULIC		ELECTRO-HYDRAULIC		





McCORMICK X8 SERIES STAGE V vs MASSEY-FERGUSON 8S

PRODUCT FAMILY	X8 VT-DRIVE		MASSEY FERGUSON 8700 DYNA-VT		
MODEL	X8.627	X8.631	8727S	8730S	8732S
REFERENCE MODEL	8727S	8730S	X8.627	X8.631	X8.631
HYDRAULICS					
TYPE	CCLS		CCLS		
FLOWRATE [l/min]	160 / 212		205		
REAR SPOOL VALVES	REAR 4E-6E - FRONT 3E+ flow selector 3 ways		REAR 6E - FRONT 3E		
POWER BEYOND	OPT		OPT		
3PT HITCH					
REAR 3-POINT HITCH	CAT III / CAT4 N WITH QUICK HOOKS		CAT III / CAT4 N WITH QUICK HOOKS		
MAX REAR LIFT CAPACITY [kg]	12000		12000		
FRONT 3-POINT HITCH	CAT3N		CAT3N		
MAX FRONT LIFT CAPACITY [kg]	5000		5000		
POWER TAKE-OFF					
TYPE	ELECTRO-HYDRAULIC WITH MODULATION		ELECTRO-HYDRAULIC WITH MODULATION MULTI-DISC		
SPEEDS	540E/1000/1000E		540E / 1000 or 1000 / 1000E		
CAB & OPERATOR AREA					
SUSPENDED CAB TYPE	SEMI ACTIVE CAB		MECHANICAL - SEMI-ACTIVE		
WEIGHTS & DIMENSIONS					
WHEELBASE	3000		3100		
AVERAGE SHIPPING WEIGHT	11000		10800		
GROSS VEHICLE WEIGHT	16000		18000		
MAX REAR TYRES	900/60R42		900/60R42		



### McCORMICK X8 SERIES STAGE V vs MASSEY-FERGUSON 8S

Matrix opening cooling package

ZF TMT32 CVT transmission with 4 stages with hydraulic clutches and planetary drives

Wide offering for the hydraulic configurations



**MCCORMICK X8 SERIES STAGE V** vs **JOHN DEERE 7R AUTO POWER**



# X8 SERIES STAGE V

## PRODUCT INFORMATION MANUAL

### McCORMICK X8 SERIES STAGE V vs JOHN DEERE 7R AUTO POWER

PRODUCT FAMILY	X8 VT-DRIVE		JOHN DEERE 7R	
MODEL	X8.627	X8.631	7R-270	7R-290
REFERENCE MODEL		7R-270/290	X8.631	X8.631
ENGINE				
P MAX – PULLING POWER [hp]	273	313	297	319
P MAX BOOST - PTO&TRANSPORT [hp]	NA	NA	305	332
MANUFACTURER	NEF 67		DEERE POWER SYSTEM	
INSTALLATION TYPE	ISO MOUNTED		STRUCTURAL	
CYLINDERS/DISPLACEMENT (cm3)	6 / 6700		6 / 6800	
AIR INTAKE SYSTEM	eVGT - INTERCOOLER		TWIN TURBO INTERCOOLER	
AFTER TREATMENT	STAGE V - HI-eSCR2		STAGE V - DPF+DOC+SCR + EGR	
FUEL TANK / DEF	550 / 71		513 / ?	
TRANSMISSION				
TYPE	VT-DRIVE - ZF TMT32 CVT		AUTO POWER CVT	
RANGES	4 WITH HYDRAULIC CLUTCHES		2 WITH DOG CLUTCH	
MAX SPEED	40 / 50		40 / 50	
FRONT AXLE				
SUSPENDED AXLE	HIGH PIVOT WITH PARALLELOGRAM (STD)		TLS CENTRAL PIVOT (STD)	
SUSPENDED AXLE WITH BRAKES	STD		STD	
DIFFERENTIAL LOCK TYPE	ELECTRO-HYDRAULIC		ELECTRO-HYDRAULIC	





McCORMICK X8 SERIES STAGE V vs JOHN DEERE 7R AUTO POWER

PRODUCT FAMILY	X8 VT-DRIVE		T7 HD AUTO COMMAND	
MODEL	X8.627	X8.631	7R-270	7-290
REFERENCE MODEL		7R-270/290	X8.631	X8.631
HYDRAULICS				
TYPE	CCLS		CCLS	
FLOWRATE [l/min]	160 / 212		162 / 223	
REAR SPOOL VALVES	REAR 4E - 6E - FRONT 3E+ flow selector 3 ways		4E +3E - 6E + 3E	
POWER BEYOND	OPT		OPT	
3PT HITCH				
REAR 3-POINT HITCH	CAT III / CAT4 N WITH QUICK HOOKS		CAT III / CAT4 N WITH QUICK HOOKS	
MAX REAR LIFT CAPACITY [kg]	12000		13010	
FRONT 3-POINT HITCH	CAT3N		CAT3N	
MAX FRONT LIFT CAPACITY [kg]	5000		5900	
POWER TAKE-OFF				
TYPE	ELECTRO-HYDRAULIC WITH MODULATION		ELECTRO-HYDRAULIC WITH MODULATION MULTI-DISC	
SPEEDS	540E/1000/1000E		540E/1000/1000E	
CAB & OPERATOR AREA				
SUSPENDED CAB TYPE	SEMI ACTIVE CAB		SEMI ACTIVE CAB	
WEIGHTS & DIMENSIONS				
WHEELBASE	3000		2925	
AVERAGE SHIPPING WEIGHT	11000		11400	
GROSS VEHICLE WEIGHT	16000		16000	
MAX REAR TYRES	900/60R42		900/60R42	





### McCORMICK X8 SERIES STAGE V vs JOHN DEERE 7R AUTO POWER

DPS vs FPT engine

After treatment system with DPF & EGR = lower performance & greater fuel consumption

Twin turbo = greater complexity

Matrix opening cooling package

ZF TMT32 CVT transmission with 4 stages with hydraulic clutches and planetary drives

Wide offering for the hydraulic configurations



THANKS.

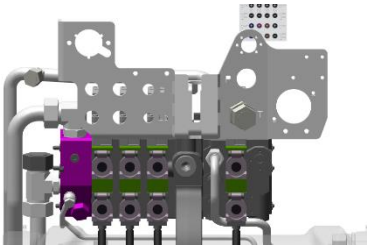


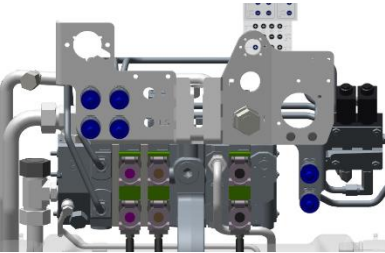


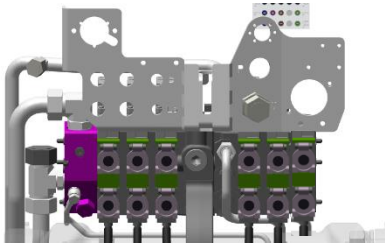


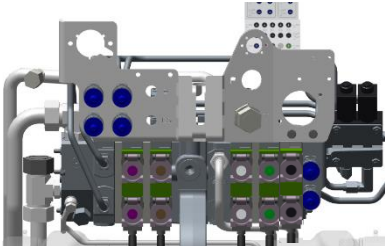


# HYDRAULIC CONFIGURATIONS

McCORMICK X8 SERIES STAGE V

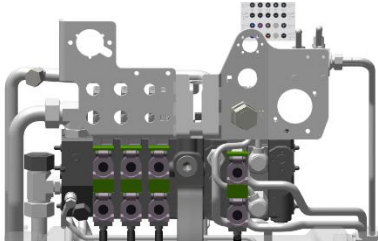


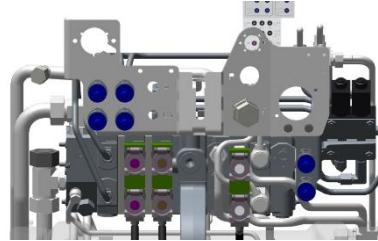


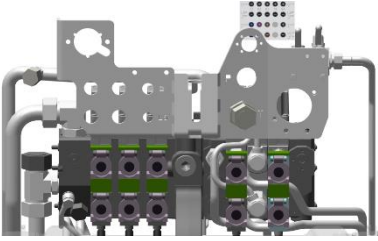


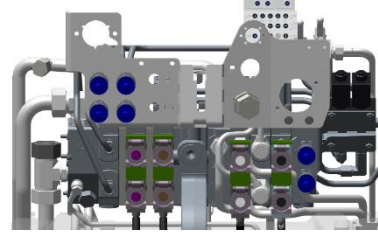


RPF2



EFFICIENT VERSION - HYDRAULIC CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	CONTROLS	
GP388 IX000	4 ELECTRO-HYDRAULIC REAR SPOOL VALVES SPOOL VALVES FLOW RATE 140 l/min			
GP388 IX003	4 ELECTRO-HYDRAULIC REAR SPOOL VALVES WITH FLOW SELECTOR SPOOL VALVES FLOW RATE 140 l/min FLOW SELECTOR PORTS FLOW RATE 100 l/min			
GP344 IX000	6 ELECTRO-HYDRAULIC REAR SPOOL VALVES SPOOL VALVES FLOW RATE 100 l/min			
GP344 IX003	6 ELECTRO-HYDRAULIC REAR SPOOL VALVES WITH FLOW SELECTOR SPOOL VALVES FLOW RATE 100 l/min FLOW SELECTOR PORTS FLOW RATE 60 l/min			

P6-DRIVE PREMIUM & VT-DRIVE - HYDRAULIC CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	CONTROLS
GP379 IX000 FA500 VL500 YA000	4 ELECTRO-HYDRAULIC REAR SPOOL VALVES 3 ELECTRO-HYDRAULIC FRONT SPOOL VALVES REAR SPOOL VALVES FLOW RATE 140 l/min FRONT SPOOL VALVES FLOW RATE 100 l/min		 
GP379 IX003 FA500 VL500 YA000	4 ELECTRO-HYDRAULIC REAR SPOOL VALVES WITH 3 WAYS FLOW SELECTOR & PUSH – PUSH PULL 3 ELECTRO-HYDRAULIC FRONT SPOOL VALVES REAR SPOOL VALVES FLOW RATE 140 l/min FRONT SPOOL VALVES FLOW RATE 100 l/min FLOW SELECTOR PORTS FLOW RATE 100 l/min		 
GP378 IX000 FA500 VL500 YA000	6 ELECTRO-HYDRAULIC REAR SPOOL VALVES 3 ELECTRO-HYDRAULIC FRONT SPOOL VALVES REAR SPOOL VALVES FLOW RATE 140 l/min FRONT SPOOL VALVES FLOW RATE 100 l/min		 
GP378 IX003 FA500 VL500 YA000	6 ELECTRO-HYDRAULIC REAR SPOOL VALVES WITH 3 WAYS FLOW SELECTOR & PUSH – PUSH PULL 3 ELECTRO-HYDRAULIC FRONT SPOOL VALVES REAR SPOOL VALVES FLOW RATE 140 l/min FRONT SPOOL VALVES FLOW RATE 100 l/min FLOW SELECTOR PORTS FLOW RATE 100 l/min		 

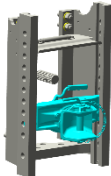

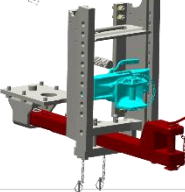
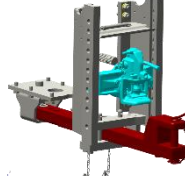
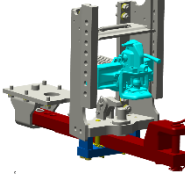


# REAR HITCH CONFIGURATIONS


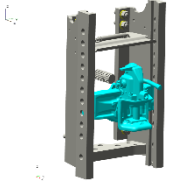

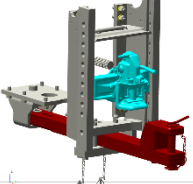
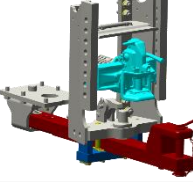
McCORMICK X8 SERIES STAGE V

RPF2


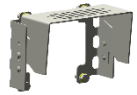
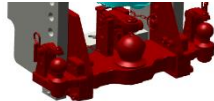
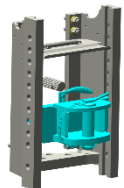
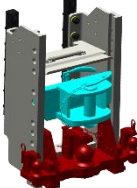
REAR HITCH CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	MAX VERTICAL LOAD [kg]	MAX TOWABLE WEIGHT [kg]	NOTE
YM065	SLIDER FRAME WITH MANUAL EEC SLIDING HITCH ( D.32 ) WITHOUT DRAWBAR		2000	40000	
YM127	SLIDING FRAME WITH AUTOMATIC EEC SLIDING HITCH ( D.38 ) WITHOUT DRAWBAR		2000	40000	
YM132	SLIDER FRAME WITH MANUAL EEC SLIDING HITCH ( D.32 )  WITH DRAWBAR		2000	40000	
			SEE TYPE APPROVAL	40000	
YM154	SLIDING FRAME WITH AUTOMATIC EEC SLIDING HITCH ( D.38 )  WITH DRAWBAR		2000	40000	
			SEE TYPE APPROVAL	40000	
YM155	FIXED FRAME WITH PITON-FIX AUTOMATIC EEC HITCH ( D.38 ) WITH EEC DRAWBAR		2000	40000	
			3000	40000	NEVER WITH YQ506
			SEE TYPE APPROVAL	40000	

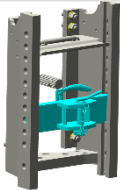
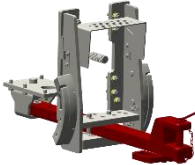
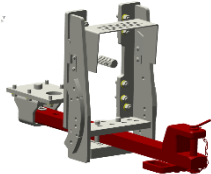
REAR HITCH CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	MAX VERTICAL LOAD [kg]	MAX TOWABLE WEIGHT [kg]	NOTE
YM162	FIXED FRAME WITH WELDED K80, K50 AUTOMATIC EEC SLIDING HITCH ( D.38 ) WITHOUT DRAWBAR		2000	40000	NEVER WITH YQ506
			3000	40000	
YM523	SLIDER FRAME WITH AUTOMATIC EEC SLIDING HITCH ( D.32 ) WITHOUT DRAWBAR		2000	40000	
YM525	FIXED FRAME WITH PITON FIXE, AUTOMATIC EEC HITCH ( D.32 ) WITHOUT EEC DRAWBAR		3000	40000	NEVER WITH YQ506
			2000	40000	
			SEE TYPE APPROVAL	40000	
YM535	SLIDER FRAME WITH AUTOMATIC EEC SLIDING HITCH ( D.32 )  WITH EEC DRAWBAR		2000	40000	NEVER WITH YQ506
			SEE TYPE APPROVAL	40000	
YM541	FIXED FRAME WITH PITON-FIXE  AUTOMATIC EEC HITCH ( D.32 )  WITH STRAIGHT DRAWBAR WITH HAMMERSTRAP		2000	40000	NEVER WITH YQ506
			3000	40000	
			SEE TYPE APPROVAL	40000	

REAR HITCH CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	MAX VERTICAL LOAD [kg]	MAX TOWABLE WEIGHT [kg]	NOTE
YM542	FIXED FRAME WITH PITON FIXE, AUTOMATIC EEC HITCH ( D.38 ) WITHOUT EEC DRAWBAR		3000	40000	NEVER WITH YQ506
			2000	40000	
			SEE TYPE APPROVAL	40000	
YM551	PUH READY & PTO PROTECTION ONLY WITHOUT FRAME WITHOUT HITCH WITHOUT DRAWBAR				WITH BOWDEN CABLE AND IN CAB LEVER FOR PUH CONTROL
YQ506	SUITABLE FOR SLIDER FRAME K80 SLIDING HITCH WITH K50 BALLS  WITHOUT DRAWBAR		4000	40000	SUITABLE FOR SLIDER FRAME ONLY
YM550	SLIDER FRAME WITH D3 SLIDING HITCH (D.38) WITHOUT DRAWBAR		3000	40000	FOR ITALIAN MKT
YM554	SLIDER FRAME WITH D3 SLIDING HITCH (D.38)  WITH K80 SLIDING HITCH WITH K50 BALLS WITHOUT DRAWBAR		3000	40000	FOR ITALIAN MKT NEVER WITH YQ505 NEVER WITH YQ506
			4000	40000	

REAR HITCH CONFIGURATIONS

VM	DESCRIPTION	3D-VIEW	MAX VERTICAL LOAD [kg]	MAX TOWABLE WEIGHT [kg]	NOTE
YM507 YQ503	SLIDER FRAME WITH C SLIDING HITCH (D.28) WITHOUT DRAWBAR		1500	8400	FOR ITALIAN MKT
YM157	STRAIGHT EEC DRAWBAR WITHOUT 3PT HITCH WITH SWAY BLOCK		3000	40000	FOR NAO MARKET - ONLY WITH NAO 3 PT HITCH NEVER WITH YQ506
YM159	STRAIGHT EEC DRAWBAR WITHOUT 3PT HITCH WITHOUT SWAY BLOCK		3000	40000	FOR NAO MARKET - ONLY WITH NAO 3 PT HITCH NEVER WITH YQ506



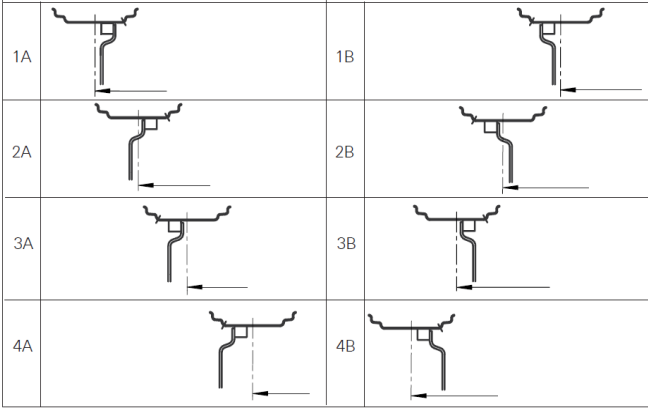
# TYRES CONFIGURATIONS

McCORMICK X8 SERIES STAGE V

RPF2

TYRES CONFIGURATIONS

VEHICLE DIMENSION	FRONT AXLE	REAR AXLE
END-TO-END	1892,00	1890,00
CENTERING DIAMETER	280,80	280,80
HOLES DIAMETER	335,00	335,00
NUMBER OF HOLES	10	10
HOLES DIMENSION	M22 x 1,5	M22 x 1,5



Suspended Axle - FRONT											IR
VM	UNIT	DIMENSION	TRACK / END-TO-END [mm]								
			1A	2A	3A	4A	1B	2B	3B	4B	
RE343	D65	600/70 R34	1938/2541	-	-	-	-	-	-	-	800
REC26	F63	650/60 R34	-	2042/2701	-	-	-	-	-	-	775
REC28	F64	650/65 R34	-	2042/2716	-	-	-	-	-	-	825
RE605	F65	650/60 R34	-	2042/2692	-	-	-	-	-	-	775
RE606	F66	650/65 R34	-	2042/2720	-	-	-	-	-	-	825
REC29	P67	650/65 R34	-	2042/2716	-	-	-	-	-	-	825

Suspended Axle - REAR											IR
VM	UNIT	DIMENSION	TRACK / END-TO-END [mm]								
			1A	2A	3A	4A	1B	2B	3B	4B	
RE343	D65	650/85 R42	1930/2590	1880/2540	-	-	-	-	-	-	1025
REC26	F63	710/70 R42	-	2020/2752	-	-	-	-	-	-	975
REC28	F64	710/75 R42	-	2020/2760	-	-	-	-	-	-	1025
RE605	F65	710/70 R42	-	2020/2736	-	-	-	-	-	-	975
RE606	F66	710/75 R42	-	2020/2754	-	-	-	-	-	-	1025
REC29	P67	900/60 R42	-	2050/2946	-	-	-	-	-	-	1025