



HUSABERG – a company of the KTM Group

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TECHNICAL NEWS HUSABERG MODEL 2007

1. CHASSIS

- Frame:** Completely reworked frame-welding fixture used for all models 2007 with some new attachment points (e.g. silencer more spaced out to give better room for the rear wheel).
- Triple Clamp:** Exclusive CNC machined triple clamp on all 2007 models now including Enduro. The triple clamp is stronger and offers the adjustable offset function.
- Steering Stem:** Steering stem of stronger aluminium type 2007.
- Front Fork:** New 12 mm coated aluminium piston rod instead of 14 mm steel and updated suspension settings for less friction and less weight on all models.
- Shock absorber:** Updated setting and new spring colour in classic Husaberg-Yellow. For all models 2007.
- Pre-load Adjuster:** The WP pre-load adjuster offering additional individual tuning options on all 2007 models.
- Front Brake Supermoto:** Supermoto front brake master cylinder with a new type of adjustment of the pressure point. The position of the adjustment is changed.
- Horn Bracket:** A shorter and more stabile type of signal horn bracket for Supermoto models 2007.
- Stickers & Decals:** A more differentiated look between Supermoto and Enduro models 2007: Supermos have a stronger street bike appearance, while the Enduros show more of the works racing heritage.



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2. ENGINE

Crankshaft:

Crankshaft with further improved tolerance values for maximum service life on all models of the 2007 series.

Crankcase:

In addition all 550cc models with a new type of crankcase in the area of the main bearings by concentrated reinforcement of the material around the bearings.

Gearbox Stop-discs:

Stop-discs in the gearbox with a new, higher collar for increased projection. To make the gearbox more durable against hard force on the shifter. For all models of the 2007 series.

Counter Balancer:

A new type of counter balancer installed on all models of 2007. One-piece unit with a new type of bearing for longer duration.

Water Pump Sealing:

New type of material installed for the water pump seal with improved sealing function. For all models 2007.



model	FE450e	FE550e	FE650e
Technical Specifications			
engine	liquid cooled single-cylinder 4-stroke engine	liquid cooled single-cylinder 4-stroke engine	liquid cooled single-cylinder 4-stroke engine
displacement	449.2	549.8	628.3
bore & stroke	100/57.2	100/70	100/80
compression ratio	13:1	11.8:1	11.8:1
valve gear	4 valves / OHC, rocker arms with rollers	4 valves / OHC, rocker arms with rollers	4 valves / OHC, rocker arms with rollers
engine lubrication	pressure circulation, trochoit oil pump	pressure circulation, trochoit oil pump	pressure circulation, trochoit oil pump
filter system	micro filter, flushable oil screen, magnetic screw	micro filter, flushable oil screen, magnetic screw	micro filter, flushable oil screen, magnetic screw
starter	electrical starter/kickstarter	electrical starter/kickstarter	electrical starter/kickstarter
decompression	fully automatic / manual	fully automatic / manual	fully automatic / manual
ignition	Kokusan digital	Kokusan digital	Kokusan digital
battery	12V7AH	12V7AH	12V7AH
carburetor	Keihin MX FCR 39 TPS	Keihin MX FCR 41 TPS	Keihin MX FCR 41 TPS
exhaust system	2-into-1, twin manifold/nickel-plated, aluminium rear muffler	2-into-1, twin manifold/nickel-plated, aluminium rear muffler	2-into-1, twin manifold/nickel-plated, aluminium rear muffler
fuel	unleaded premium-grade gasoline (ROZ 95)	unleaded premium-grade gasoline (ROZ 95)	unleaded premium-grade gasoline (ROZ 95)
transmission	6-speed	6-speed	6-speed
clutch	wet multi-disc clutch, operated hydraulically	wet multi-disc clutch, operated hydraulically	wet multi-disc clutch, operated hydraulically
primary drive	29:78	29:78	29:78
secondary drive	16:40 (open version 14:48)	16:40 (open version 15:48)	16:40 (open version 15:45)
frame	25CrMo4 tempered	25CrMo4 tempered	25CrMo4 tempered
handlebar	Magura SX Alu conifed	Magura SX Alu conifed	Magura SX Alu conifed
front suspension	WP USD 4860 MA HUSABERG ENDURO	WP USD 4860 MA HUSABERG ENDURO	WP USD 4860 MA HUSABERG ENDURO
rear suspension	WP PDS 5018 MCC HUSABERG ENDURO	WP PDS 5018 MCC HUSABERG ENDURO	WP PDS 5018 MCC HUSABERG ENDURO
front/rear susp. travel	295mm/320mm	295mm/320mm	295mm/320mm
front brake cylinder	Brembo 10mm	Brembo 10mm	Brembo 10mm
front brake	Brembo two-piston floating caliper, ø 260mm stainless steel	Brembo two-piston floating caliper, ø 260mm stainless steel	Brembo two-piston floating caliper, ø 260mm stainless steel
rear brake cylinder	Brembo 13mm	Brembo 13mm	Brembo 13mm
rear brake	Brembo single-piston floating caliper, ø 220mm stainless steel	Brembo single-piston floating caliper, ø 220mm stainless steel	Brembo single-piston floating caliper, ø 220mm stainless steel
front rim	Excel 1,6 x 21"	Excel 1,6 x 21"	Excel 1,6 x 21"
rear rim	Excel 2,15 x 18"	Excel 2,15 x 18"	Excel 2,15 x 18"
front/rear tire	90/90-21" / 140/80-18"	90/90-21" / 140/80-18"	90/90-21" / 140/80-18"
wheelbase	1490 mm	1490 mm	1490 mm
seat height/ground clear.	930 mm / 380 mm	930 mm / 380 mm	930 mm / 380 mm
tank capacity	10,5 liters	10,5 liters	10,5 liters
dry weight	109	109	109

model	FS550e NEUES MODELL	FS650e
engine	liquid cooled single-cylinder 4-stroke engine	liquid cooled single-cylinder 4-stroke engine
displacement	549.8	628.3
bore & stroke	100/70	100/80
compression ratio	11.8:1	11.8:1
valve gear	4 valves / OHC, rocker arms with rollers	4 valves / OHC, rocker arms with rollers
engine lubrication	pressure circulation, trochoit oil pump	pressure circulation, trochoit oil pump
filter system	micro filter, flushable oil screen, magnetic screw	micro filter, flushable oil screen, magnetic screw
starter	electrical starter/kickstarter	electrical starter/kickstarter
decompression	fully automatic / manual	fully automatic / manual
ignition	Kokusan digital	Kokusan digital
battery	12V7AH	12V7AH
carburetor	Keihin MX FCR 41 TPS	Keihin MX FCR 41 TPS
exhaust system	2-into-1, twin manifold/nickel-plated, aluminium rear muffler	2-into-1, twin manifold/nickel-plated, aluminium rear muffler
fuel	unleaded premium-grade gasoline (ROZ 95)	unleaded premium-grade gasoline (ROZ 95)
transmission	6-speed	6-speed
clutch	wet multi-disc clutch, operated hydraulically	wet multi-disc clutch, operated hydraulically
primary drive	29:78	29:78
secondary drive	16:38 (open version 15:40)	16:38 (open version 15:40)
frame	25CrMo4 tempered	25CrMo4 tempered
handlebar	Magura SX Alu conified	Magura SX Alu conified
front suspension	WP USD 4860MA HUSABERG SUPERMOTO	WP 4860MA HUSABERG SUPERMOTO
rear suspension	WP 5018 DCC PDS HUSABERG SUPERMOTO	WP 5018 DCC PDS HUSABERG SUPERMOTO
front/rear susp. travel	275mm/288mm	275mm/288mm
front brake cylinder	FTE 17,46mm	FTE 17,46mm
front brake	FTE four-piston radial mounted floating caliper, ø 310mm stainless steel	FTE four-piston radial mounted floating caliper, ø 310mm stainless steel
rear brake cylinder	Brembo 13mm	Brembo 13mm
rear brake	Brembo single-piston floating caliper, ø 220mm stainless steel	Brembo single-piston floating caliper, ø 220mm stainless steel
front rim	Behr 3.5x17" black	Behr 3.5x17" black
rear rim	Behr 4,25x17" black	Behr 4,25x17" black
front/rear tire	120/70-17" / 150/60-17"	120/70-17" / 150/60-17"
wheelbase	1481	1481
seat height/ground clear.	870 mm / 320 mm	870 mm / 320 mm
tank capacity	10.5 liters	10.5 liters
dry weight	112	112

model	FS650c
Technical Specifications	
engine	liquid cooled single-cylinder 4-stroke engine
displacement	628.3
bore & stroke	100/80
compression ratio	11.8:1
valve gear	4 valves / OHC, rocker arms with rollers
engine lubrication	pressure circulation, trochoit oil pump
filter system	micro filter, flushable oil screen, magnetic screw
starter	electrical starter/kickstarter
decompression	fully automatic / manual
ignition	Kokusan digital
battery	12V7AH
carburetor	Keihin MX FCR 41
exhaust system	2-into-1, twin manifold/nickel-plated, aluminium rear muffler
fuel	unleaded premium-grade gasoline (ROZ 95)
transmission	6-speed
clutch	wet multi-disc clutch, operated hydraulically
primary drive	29:78
secondary drive	15:40
frame	25CrMo4 tempered
handlebar	Magura SX Alu conified
front suspension	WP 4860MA HUSABERG SUPERMOTO
rear suspension	WP 5018 DCC PDS HUSABERG SUPERMOTO
front/rear susp. travel	275mm/288mm
front brake cylinder	FTE 17,46mm
front brake	FTE four-piston radial mounted floating caliper, ø 310mm stainless steel
rear brake cylinder	Brembo 13mm
rear brake	Brembo single-piston floating caliper, ø 220mm stainless steel
front rim	Behr 3.5x17" black
rear rim	Behr 5x17" black
front/rear tire	12/60-17" / 16/63-17"
wheelbase	1481
seat height/ground clear.	870 mm / 320 mm
tank capacity	10,5 liters
dry weight	110