

Genesis Series

Models :: 2145, 2160, 2180, 2210 (145-210 PTO-HP)

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The Genesis is an industry leading, full-featured 2WD/FWD tractor with over a decade of field proven performance. The Genesis is available with 145, 160, 180 or 210 PTO-HP (at 2100 RPM). All models are equipped with a 7.5L Constant Power Plus Genesis engine that delivers a combination of power and performance. The Constant Power Plus engine is matched to a smooth shifting Powershift transmission that has 18 forward and 9 reverse speeds with operator programmable features designed to match your work requirements. Finger tip electro-hydraulics with the optional HydraFlow® Plus package deliver 55 GPM to meet today's high flow demands.

MEETING THE DEMANDS OF MODERN EQUIPMENT



Constant Power Plus

All models are equipped with a 7.5L Constant Power Plus Genesis engine that delivers a combination of power and performance.



Powershift transmission

Power is transferred to the ground through an 18 x 9 full powershift transmission that includes these shifting features:

- Pulse shift
- Sequential shifting
- Straight-line shuttle
- Programmable upshift & downshift
- Automatic speed matching
- Programmable reverse



Electro-hydraulics

Electro-hydraulics are standard equipment, with finger tip operation to control the raising, lowering, float, neutral and programmable timed self-centering detents. Convenient thumb wheels provide precise flow from 0 to 30 GPM at rated engine speed (2100 RPM). The optional Hydra-Flow® Plus package boosts output to 55 GPM at rated engine speed.

MAXIMIZE PRODUCTIVITY



All Genesis FWD models are available with an optional Ultrasteer® front axle for a sharper turning radius that increases productivity. Tighter turning yields better fuel efficiency and reduces time wasting maneuvers. Add the optional traction control system (TCS), with front differential locks to make this tractor a real workhorse in the field. All TCS models can be ordered with optional front duals for increased traction and flotation.

3895 Self-Leveling Loaders

Add versatility to your Genesis with the addition of a 3895 True Self-Leveling Loader. Designed with the latest in front-

end loader technology, the 3895 True Self-Leveling Loader is factory installed on the Genesis by trained technicians. Easy-to-use mechanical or electronic control joysticks and a steering column mounted shuttle shift are available to further enhance productivity.

The Self-Leveling system keeps the bucket in one constant position during the total lift and lower cycle. The system provides full dump at ground and additional roll back as the loader raises. The level indicator rod shows the position of the bucket or attachment relative to the ground.



COMFORT AND CONVENIENCE



The Genesis combines operator comfort and function. Two doors access the clean, quiet and ergonomically correct cab interior. The cab is designed for excellent visibility to all interior and exterior tractor functions.

An efficient climate control system keeps the operator environment clean and dust free. The adjustable side console moves forward and backward with the touch of a button so the shift lever, throttle, hydraulics and 3-point hitch controls are in the perfect position.

The bright easy to read electronic instrument display, monitors and provides feedback on all critical tractor functions. Tilt and telescopic steering and an adjustable air ride seat complete the package.

Service and Maintenance

Buhler factory trained dealer service technicians are up to date with the latest repair technology. Efficient troubleshooting by trained professionals provides timely service support that minimizes your downtime.



DIMENSIONS AND SPECIFICATIONS

DIMENSIONS	2145	2160	2180	2210
Height to top of cab	122" (3080 mm)	122" (3080 mm)	122" (3080 mm)	122" (3080 mm)
Top of exhaust	124" (3158 mm)	124" (3158 mm)	124" (3158 mm)	124" (3158 mm)
Ground clearance	18.6" (471 mm)	18.6" (471 mm)	18.6" (471 mm)	18.6" (471 mm)
Wheel base, Standard steer	118.3" (3005 mm)	118.3" (3005 mm)	118.3" (3005 mm)	118.3" (3005 mm)
Wheel base, Ultra Steer*	122.6" (3115 mm)	122.6" (3115 mm)	122.6" (3115 mm)	122.6" (3115 mm)
Length, Standard steer	200.4" (5010 mm)	200.4" (5010 mm)	201.5" (5038 mm)	201.5" (5038 mm)
Length, Ultra Steer*	204.8" (5120 mm)	204.8" (5120 mm)	205.9" (5148 mm)	205.9" (5148 mm)

GENESIS 2WD/FWD	2145	2160	2180	2210
Engine type	6 cylinder Genesis Diesel, Tier II, turbo charged and air to air cooled electronic fuel injection pump control			
Engine HP	196 hp (145 kW)	227 hp (169 kW)	260 hp (194 kW)	278 hp (207 kW)
PTO-HP@2100 rpm	145 hp (108 kW)	160 hp (119 kW)	180 hp (134 kW)	210 hp (157 kW)
Engine displacement / bore and stroke	Displacement: 456 cu.in. (7.5 L) / bore and stroke: 4.4" x 5.0" (112 x 127 mm)			
Cruise control / fuel cooler	Standard / N/A	Standard / N/A	Standard / Standard	Standard / Standard
Transmission type	Genesis Full Powershift			
Standard - full powershift	18 forward speeds, 9 reverse: 25 mph (40 km/h)			
Straight-line shuttle shift with programming	Yes			
Electrical system	Advanced diagnostics with 2-12 volt low maintenance 950 CCA each battery and 12 V-130 amp alternator			
Standard lights	Halogen - 2 headlights, 9 worklights, 2 front roof mounted			
Optional lights available	High intensity discharge (HID) lighting			
Radar / rear wiper / washer	Optional			
Hydraulic type	Closed Center Load Sensing, relief- 2900 psi (200 Bar)			
Flow at 2100 rpm	Standard: 30 GPM (117 L/min), Optional: HydraFlow* Plus 55 GPM (208 L/min)			
Number of remotes	Standard: color coded system with 3 valves, Optional: 4 th valve available			
Front axle - track setting, 2WD	61" to 87" (1575 mm to 2210 mm)			N/A
- track setting, FWD	60" to 88" (1524 mm to 2235 mm)			
- track setting, Ultra Steer*	60" to 88" (1524 mm to 2235 mm)			
Rear axle length	112" (2845 mm)	112" or 120" (2845 mm or 3050 mm)		
Rear axle diameter	3.62" (92 mm)	4.13" (105 mm)		
Rear axle track - width adjustable Axle A-112"	60" to 124" (1524 mm to 3150 mm)			
Rear axle track - width adjustable Axle B-120"	N/A	60" to 128" (1524 mm to 3255 mm)		
Three-point hitch	Category III			
Standard (SAE) lift capacity	12,500 lbs (5670 kg)			15,000 lbs (6804 kg)
Electronic draft sensing	Standard			

PTO-SHAFT	2145	2160	2180	2210
Type	Wet / multi-plate clutch			
Speed	540 / 1000 rpm	1000 rpm (540 rpm opt.)	1000 rpm	1000 rpm
540 rpm	1.375" (34.9 mm) dia. 6 spline	1.375" (34.9 mm) dia. 6 spline	N/A	N/A
1000 rpm	1.375" (34.9 mm) dia. 21 spline	1.375" (34.9 mm) dia. 21 spline	1.75" (44.5 mm) dia. 20 spline	1.75" (44.5 mm) dia. 20 spline
1000 rpm †	N/A	1.75" (44.5 mm) dia. 20 spline	1.375" (34.9 mm) dia. 21 spline	1.375" (34.9 mm) dia. 21 spline

† optional output shaft

CAPACITIES	2145	2160	2180	2210
Fuel tank	110 U.S. gal (416 L)	110 U.S. gal (416 L)	110 U.S. gal (416 L)	110 U.S. gal (416 L)
Engine oil	22.5 qt (21 L)	22.5 qt (21 L)	22.5 qt (21 L)	22.5 qt (21 L)
Hydraulic system	124 qt (117 L)	148 qt (140 L)	148 qt (140 L)	148 qt (140 L)
Coolant system	26 qt (25 L)	26 qt (25 L)	28 qt (26.5 L)	28 qt (26.5 L)



3895 SLR LOADER SPECIFICATIONS	3895 SLR ULTRA STEER	3895 SLS STANDARD STEER
Type of loader	Mechanical true self leveling system complete with manifold and block relief valve	
Breakout force	8500 lb-ft at pivot pin	9950 lb-ft at pivot pin
Maximum lift capacity	6900 lbs (3129 kg)	6875 lbs (3125 kg)
Lift cylinders	3.5" (90 mm) diameter, 32.5" (825 mm) stroke, 2" (51 mm) shaft	3.5" (90 mm) diameter, 32.5" (825 mm) stroke, 2" (51 mm) shaft
Bucket cylinders	3.0" (76 mm) diameter, 24.5" (612 mm) stroke, 1.75" (44 mm) shaft	3.0" (76 mm) diameter, 24.5" (612 mm) stroke, 1.75" (44 mm) shaft
Maximum lift height	181" (4.6 m) to pivot pin	169" (4.3 m) to pivot pin
Maximum dump angle	61°	61°
Maximum rollback angle	35°	35°

OPTIONAL ACCESSORIES FOR THE BUHLER VERSATILE 3895 SL LOADER	
QUICK-TACH BUCKETS 100S" (3.78 m), multi-purpose 100H" (4.02 m), multi-purpose 96" (3.78 m), snow 85" (3.35 m), manure	1.20 cu.yd. capacity, prepunched for grapple tines 1.65 cu.yd. capacity, prepunched for grapple tines 2.25 cu.yd. capacity 1.20 cu.yd. capacity, complete with 36" (0.9 m) tines
GRAPPLES	Standard and large capacity 6' bale models available 84" cross tube, adjustable grapple weldments
A-FRAME	Accepts bale spears and pallet forks
BALE SPEARS	49" (1.24 m) with 1, 2, or 3 spears
BUCKET TINES For 96" bucket For 102" bucket	Bolt on 21" (0.52 m), quantity of 10 Bolt on 21" (0.52 m), quantity of 10
PALLET FORK KIT Dimensions of tine Weight capacity Amount of adjustment on shaft	48" (1.22 m) long x 1.5" (38 mm) thick x 4" (102 mm) wide 4400 lbs (2000 kg) 11.25" (280 mm)
CUSHION RIDE	Absorbs abrupt forces caused by suddenly dropping a heavy load or when driving across rough ground.

JOYSTICK OPTIONS	MECHANICAL	ELECTRONIC
Location	Cab right hand console	Cab right hand console
Circuits	Two or three circuit. Three circuit valve has separate grapple function with thumb controlled rocker switch.	Three circuit for grapple operation. In console options for tractors equipped with shuttle shift.
Float function	On the loader lift circuit	On the loader lift circuit

All 3895 SL Loaders come with standard color coded hookup quick attach system, parking stand, hydraulic lift lock, bucket level indicator and grill guard.





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