

## Many other options available:

Custom modifications, electronic data capture equipment to meet your research needs. Intrinsic Property Measurements and GPS field location mapping options are available on all models.



### TECHNICAL DATA

SHP 90

SHP 50

SPC 40

SPC 20

PMC 20

HP 5

<b>Engine Options:</b>	Deutz 127 hp, 6 CL, water-cooled, turbo diesel	73 hp Deutz turbo diesel, air-cooled, 4-cyl.	83 hp Perkins diesel, water cooled, 4-cyl.	73 hp Deutz turbo diesel, air-cooled 4-cyl; other engines available	40 hp Deutz diesel, air-cooled, 3-cyl; 40 hp Perkins diesel, water-cooled.	40 hp Deutz diesel, air-cooled, 3-cyl.
<b>Fuel Tank Cap.:</b>	66 gallons	37 gal. (140L)	35 gal. (133L)	25 gal. (95L)	25 gal. (95L)	11 gal. (42L)
<b>Transmission:</b>	3-speed hydrostatic, electrohydraulic	Hydrostatic, forw/rev (0-7 mph)	Hydrostatic, forw/rev (0-7 mph)	Hydrostatic, forw/rev (0-7 mph)	Hydrostatic, forw/rev (0-7 mph)	Hydrostatic, forw/rev (0-7 mph)
<b>Steering:</b>	2 or 3 range ground speeds	electrohydraulic	electrohydraulic	electrohydraulic	Power	electrohydraulic
	(fail-safe override)	Power	Power	Power	Power	Power
<b>Brakes:</b>	Fail-safe (electric over hydraulic release)	Hydraulic fail-safe	Hydraulic fail-safe	Hydraulic fail-safe	Mech. parking	Hydraulic fail-safe
<b>Tires</b>						
<b>Front:</b>	18.4 x 28, 12-ply tubeless	12.4 x 24, 6-ply	14.9 x 24, 8-ply	11-2 x 24, 6-ply cab models 12.4 x 24, 8-ply	8.3 x 24, 6-ply	26 x 12.0-12, 4-ply
<b>Rear:</b>	10.5/80 x 18, 10-ply tubeless	8.5L x 14, 6-ply	8.5L x 14, 6-ply	8.5L x 14, 6-ply	23 x 8.5 x 12, flotation opt.	23 x 10.50-12, 4-ply
<b>Cylinder Drive Speed:</b>	Electric over hydraulic variable speed control, gear belt final drive	Var., hyd. drive Push button speed control	Var., hyd. drive	Var., hyd. drive	Fixed, mech. drive, std.; var. mech. drive, optional	Var., mech. drive
<b>Speed Range:</b>	0-880 rpm,	0-1100 rpm	0-900 rpm (opt. 1100 rpm)	0-900 rpm (opt. 1100 rpm)	250-1400 rpm	400-1100 rpm
<b>Diameter:</b>	20"	Dual cylinders	15.25" (39cm)	15.25" (39cm)	15.25" (39cm)	13.25" (34cm)
<b>Width:</b>	22"	13.25" (34cm); 17.5" (45cm), ea	31.5" (81cm)	31.5" (81cm)	31.5" (81cm)	17.5" (45cm)
<b>No. of Rasp Bars:</b>	8	8 each	8	8	8	8
<b>Concave Adjustment:</b>	Electric control w/indicator	Dual mech front/rear	Front/rear via single lever quick-adjust	Front/rear, quick-adjust	Independent front/rear, std; or quick-adjust via single lever.	Mech front/rear
<b>Sieve</b>	Air assist					
<b>Upper:</b>	2 straw-walkers per chamber	16.5"W x 55"L (42 x 141cm)	30"W x 75"L (76 x 191cm)	30"W x 55"L (76 x 140cm)	30"W x 55"L (76 x 140cm)	16.5"W x 55"L (42 x 141cm)
<b>Lower:</b>	One sieve per chamber	N/A	30"W x 47.5"L (76 x 121cm)	30"W x 47.5"L (7 x 121cm)	30"W x 47.5"L (76 x 121cm)	N/A
<b>Total Sieve Area:</b>	1,368 sq in each	907.5 sq in (.59m <sup>2</sup> ) each	3,675 sq in (2.42m <sup>2</sup> )	3,075 sq in (1.98m <sup>2</sup> )	3,075 sq in (1.98m <sup>2</sup> )	907.5 sq in (.59m <sup>2</sup> )
<b>HEADER SPECS</b>						
<b>Std Header</b>						
<b>Cutting width:</b>	N/A	N/A	45", 51", 57", 60" (1-1.5m)	45", 51", 57", 60" (1-1.5m)	45", 51", 57", 60" (1-1.5m)	39" (1m)
<b>Cutting height:</b>	N/A	N/A	adj. to 36" (91cm) above ground	adj. to 36" (91cm) above ground	adj. to 36" (91cm) above ground	adj. to 33" (84cm) above ground
<b>Reel</b>	N/A	N/A	U-II	U-II	U-II	ALMACO
<b>No. of bats:</b>	N/A	N/A	5	5	5	4
<b>Diameter:</b>	N/A	N/A	65" (165cm)	65" (165cm)	65" (165cm)	48" (122cm)
<b>Speed control:</b>	Electric over hydraulic variable speed control		Hyd chain-drive, adj from driver's seat, 0-100 rpm	Hyd chain-drive, adj from driver's seat, 0-100 rpm	Hyd chain-drive, adj from driver's seat, 0-100 rpm	Mech. drive, fixed speed
<b>Corn Head:</b>	4-row at 30", hyd-driven, gear belt drives, JDere row units & snapping rollers	N/A	2-row, hyd-drive, JDere row units & snapping rollers, row spacing adj 30"-40" (76-101cm)	2-row, hyd-drive, JDere row units & snapping rollers, row spacing adj 30"-40" (76-101cm)	1-row, JDere row units & snapping rollers, mech. drive	1-row, JDere row units & snapping rollers, mech. drive
<b>Row Crop Head:</b>	4-row at 30" hyd-drive, gear belt dr.	Dual, 1-row JDere	2-row, hyd-drive, JDere	2-row, hyd-drive, JDere	1-row, JDere gathering	1-row, JDere gathering
<b>Fixed or Adjustable Row Spacing</b>	JDere style gathering belts, cutting knife, floating row units with rotary disks	gathering belts, cutting knife, chain guides, hyd drive, and variable speed	gathering belts & cutting knife, row spacings 30"-40" (76-101cm)	gathering belts & cutting knife, row spacings 30"-40" (76-101cm)	belts & cutting knife	belts & cutting knife
<b>DIMENSIONS</b>						
<b>Height (w/o cyclone):</b>	11'	-	10'2" (3m)	7'6" (2.28m)	10'6" (3.2m)	7'3" (2.2m)
<b>Length:</b>	Machine 17'6", with head 26'5"	19'5" (5.9m)	19'6" (6m)	17'6" (5.3m)	18'6" (5.6m)	16' (5m)
<b>Width:</b>	11'	8' (2.4m)	7' (2.1m)	7' (2.1m)	6' (1.8m)	4'4" (1.3m)
<b>Weight:</b>	22,000 lbs	8,500 lbs (3856kg)	10,000 lbs (4536kg)	7,200 lbs (3240kg)	5,800 lbs (2610kg)	3,400 lbs (1530kg)
<b>Track width:</b>	Front 112 3/4" Rear 107 3/4"	81" (206cm) outside, front and rear	66" (168cm) center to center on both axles	60" (152cm) center to center on both axles	60" (152cm) outside	45" (114cm) outside, front & rear
<b>Ground clearance:</b>	11"	-	11" (28cm)	11" (28cm)	11" (28cm)	7" (18cm)
<b>SPECIAL OPTIONS</b>						
	Intrinsic Property Measurements	Automated sample packager	1- to 2-person cab	1- to 2-person cab	1- to 2-person platform	Volumetric cylinder
	GPS field location mapping	Weigh hopper options	Rear wheel drive assist	1- to 2-person platform top	Mech. Dr. Var. Speed	Weigh hopper
	Electric folding mirror	Sample-handling options	Foot controls	Rear wheel drive assist	Threshing cylinder	Sample bag holder options
	Spare parts kit	Skip row, split head	Night lighting (standard)	Foot controls	Rear wheel drive assist	Foot controls
	Operator presence safety shut off in driver's seat	for 60" rows	Hydraulic dump hopper	Night lighting (standard)	Foot controls	Night lighting
	Automated Seed Sample Packager		Automated Seed Sample Packager	Gravity dump grain tank	Night lighting	Bulk seed storage options
				Hydraulic dump hopper	Breeder machine options	
				Automated Seed Sample Packager	Sun canopy	

High-volume test plot harvester that enables one operator to harvest two, one-row soybean test plots at the same time! A serious timesaver that harvests at speeds up to three times as fast as a conventional one-row plot combine. This results in a dramatic increase in productivity because you can increase the number of plots harvested during a season.

- Two individual harvesting systems to maintain purity
- High-tech operator's cabin
- Patented Automated Seed Sample Packager with laser scanner
- Pneumatic seed delivery system provides less seed damage, higher germination rates, lower maintenance, and faster sample delivery
- Proprietary or ALMACO sample discard or selection system and data capture systems
- Air column cleaning system ensures sample purity
- GPS option available
- Intrinsic Property Management option available
- Bulk seed storage for discarded seed
- Packaged seed storage hopper with quick unload
- Available Row Crop Header styles
  - Fixed 30" Header
  - Skip Row Header
  - Adjustable 30"- 40" Header
  - 30" Shifting Header

## SHP 50



SHP 50 shown with 30" Shifting Split Row Crop Header

### Split 2-Row Combines

for soybeans! Dual separation chambers keep two plots separated through the entire harvesting process. Ergonomic layout of all controls makes operation easy. Sample storage bin with hinged side access provides quick unloading and easy handling of bagged samples.



Equipped with Automated Seed Sample Packager, Sample Discard System and Electronic Data Capture System.

## Automated Seed Sample Packager

Increase productivity by automatically packaging the selected samples that are harvested.

Proprietary or ALMACO harvest software allows save or discard decisions to be made in the field utilizing pre-set criteria.



## Standard Features Include:

- Air blast opening of perforated bags
- Electronic sensing of bag positioning
- Equipped with one bar code scanner that identifies bar code numbers on each bag and allows hand held computer to associate bag number to plot location and other information
- Adjustable thermal seal bar control with digital read-out to control seal bar temperature
- Seal bars that heat-seal bags once filled with seed
- Equipped with Programmable Logic Controller that controls input and output packager functions with serial RS-232 interface
- 120 volt and 12 volt power requirements
- Either operator or computer confirmation to seal bags and cycle packager
- Load shelf to support plastic bag while filling

## 30" Shifting Split Row Crop Head



- Adjustable gauge wheels to adjust cutting height
- John Deere gathering belts, knives and chain guides
- Hydraulically driven variable speed control of gathering belt speed
- Mini-cleat pattern lower belt for quicker clean-out of header
- Cleated upper pinch belt relocated for more positive feeding of material into dual threshing cylinders and concaves
- Belted feeder housings partitioned to keep plot separated
- Three inch diameter rollers on pinch belt
- Full width pinch belt with molded clearing cleats
- Hinged outer tin for access to outside gathering belts and removable access panels on center tin to maintain center gathering belts
- Header lift cylinder safety lock
- Adjustable extended gathering belt chain guides



## ALMACO Split Seed Spector LRX and Data Capture System

Data from two plots are taken simultaneously with the Split Seed Spector LRX Meter. The sample analysis data is captured via the PSION Workabout Pro and Harvest Software Package.

