



SAND STAR HYDRAULIC DRIVE SERIES

MODELS	45-001-A 45-002-A 45-003-A	Sand Star I Sand Star II Sand Star III
POWER	45-001 - 16hp (12 kW) Vanguard V twin cylinder , air cooled, gasoline 45-002 - 45-003 - 18hp (13.5 kW) Vanguard V twin cylinder , air cooled, gasoline Cast iron sleeves, electronic ignition Full pressure lubrication with oil filter Engine mounted air cleaner and remote mounted Cyclonic air intake	
CONFIGURATION	3-wheel tricycle configuration, rear engine placement	
DRIVE	Direct multi v-belt drive (with manual clutch for easy cold weather starting) Hydrostatic variable displacement pump to two hydraulic drive motors on rear wheels (2WD) or to two hydraulic drive motors on rear wheels and one hydraulic motor on front wheel (3WD). Parallel traction drive to all 3 wheels. Hydraulic oil system cooler with engine driven air flow. Electric on/off valve standard on 3WD.	
SPEED	0-12 mph (0-16 kph) Both 2WD and 3WD Units	
BRAKING	Dynamic braking through the hydrostatic transmission Two hand operated, 8" drum type park/emergency brake	
CONSTRUCTION	Heavy gauge square steel tubing, hydraulically formed, electrically welded.	
TIRES/WHEELS	Purchasers choice of (3) 22 x 11 - 10 knobbed sand tires, -or- (3) 23-10.50 x 12 turf tires	
STEERING	45-001 and 45-002: Manual front wheel steering, 15" (38 cm) diameter automotive type steering wheel 45-003: Hydraulic power steering, 15" (38 cm) diameter automotive type, adjustable tilt steering wheel.	
CONTROLS	Dual foot pedal for forward and reverse operation of traction drive system with "Pro-Pedal" system connecting engine throttle to hydraulic demand (Engine speed increases as hydraulic system demand increases) Hydraulic engage/disengage levers control rear mounted and center mounted implements.	
SEAT	Deluxe padded, vinyl covered seat, 1 piece molded, adjustable operator position	
ELECTRICAL	12 volt electric start, dash mounted Ignition switch, operator presence switch in seat, 3WD on/off with 3WD units.	
SOUND LEVEL	87dB(A) under normal operating conditions	
DIMENSIONS (Inches/m) (Length-Width-Height)	68 in (1.73m) - 58 in (1.47m) - 52 in (1.2m) Wheelbase: 42 in (1.064m) Ground Clearance 5.5" - 7" (13 -18 cm) - under cultivator depending on attachment	
WEIGHT	2WD - 875 lbs. (397 kg) 3WD - 915 lbs. (415 kg)	

LIQUID CAPACITIES	Gasoline (unleaded): 5 gallons (19 liter) in high density nylon low-perm tank Hydraulic system oil: 5 gallons (19 liter) in high density polyethylene tank
SAFETY & CONFORMANCE	Complies with all applicable ANSI, OSHA, and European Machinery Directive standards
OPTIONS	15-622 Weather Canopy 45-004 Smithco Engineered Roll Bar 45-016 Light Kit
IMPLEMENTS	Many efficient and effective implements for constructing and maintaining sand bunkers and other areas on the golf course. Please see below.

Rear Mounted Implements		SHIP WT.
13-298Q	Fan Rake for Sand Traps	36
13-319	Fan Rake Add On for 13-438 Rake Assembly	20
13-438Q	Sand Trap Rake Assembly	66
13-758	Max Flex Rake (2013 and Newer Models)	66
13-684	Brush Attachment for all rakes except 42-130	20
13-740	Brush Attachment for 42-130	20
42-130Q	84" (213 cm) Mild Steel Tournament Rake	85
42-132Q	72" (189 cm) Mild Steel Tournament Rake	75
42-392Q	84" (213 cm) Multi Brush Rake	100
42-391Q	72" (189 cm) Multi Brush Rake	90
41-501	Typhoon Pumping System	480
45-010	Box Grader	273
41-502	EarthWay® Spreader	50

Center Mounted Implements		
45-018	Center Attachment Lift	20
45-006	Sand Cultivator	20
45-013	Sand Cultivator w/ Castor Wheels	40
45-014	Weed Cultivator	25
45-008	Sand Cultivator w/ Spring Tine Teeth	20
45-007	Infield Scarifier w/ Vertical Blades	25
45-011	Infield Scarifier w/ Chisel Blades	25
45-012	Construction Leveling Blade	38
45-015	Motorized Brush (only Sand Star I and II)	30

Front Mounted Implements		
45-005	40" (102 cm) Hydraulic Plow	70
45-009	40" (102 cm) Manual Plow	65

GREEN STAR	ROLLER-BRUSH-SPIKER SYSTEM	
42-550Q	Green Star Total RBS System <i>Complete Roller, Brush and Spiker & mounting frame</i>	285
42-586Q	Green Star RBS Main Frame only <i>Mounting frame</i>	50
42-581	Green Star Roller Set (3) only (Requires 42-586Q Main Frame Assembly)	85
42-585	Green Star Brush Set (3) only (Requires 42-586Q Main Frame Assembly)	20
42-582	Green Star Spiker Set (3) only (Requires 42-586Q Main Frame Assembly)	130