



SPECIFICATIONS, 410SX

DIMENSIONS	U.S.	METRIC
Transport height		
Top of raised plow	58 in	1.47 m
Top of 2-ft boom & chain	63.5 in	1.61 m
Angle of departure		
w/out blade: 39°		
w/ 18-in (460 mm) blade: 17°		
Maximum length plowing		
w/out trenching attachment	118 in	3 m
w/ trenching attachment	151 in	3.84 m
w/out reel carrier	120 in	3.05 m
Width, plow unit	23 in	580 mm
Transport length		
w/ trenching attachment, 36-in boom, 18-in blade	183 in	4.65 m
Width, transport		
23 x 10.50-12 tires	36 in	910 mm
26 x 12-12 tires	48.5 in	1.23 m
23 x 10.50-12 dual wheels	56 in	1.42 m
Blade ground clearance, with 18" blade	26 in	660 mm
Maximum cover depth*	24 in	610 mm
Operating height, without trenching attachment	49.5 in	1.26 m
Tread		
23 x 10.50-12 tires	25.5 in	650 mm
26 x 12-12 tires	37.5 in	950 mm
Wheelbase	46 in	1.17 m
Centerline plow to outside edge of machine, blade centered		
23 x 10.50-12 tires	18 in	460 mm
26 x 12-12 tires	24 in	610 mm
Angle of approach: 36°		
w/out trenching attachment: 22°		
w/ trenching attachment: 21°		
w/ 25-in (635 mm) reel: 23°		
OPERATION	U.S.	METRIC
Maximum transit, forward (vehicle speeds @ high idle)		
26 x 12.00-12 tires	2.7 mph	4.3 km/h
23 x 10.50-12 tires	2.3 mph	3.8 km/h
Maximum transit, reverse (vehicle speeds @ high idle)		
26 x 12.00-12 tires	1.4 mph	2.3 km/h
23 x 10.50-12 tires	1.1 mph	1.8 km/h
Maximum pipe or cable diameter		
Pull-type plow blade	3 in	75 mm
Feed-type plow blade	1 in	25 mm
Vehicle clearance circle, wall to wall (equipped with trenching attachment and 18-in plow blade)		
Right turn		
26 x 12-12 tires	21 ft	6.4 m
23 x 10.50-12 tires	20 ft	6.1 m
Left turn		
26 x 12-12 tires	19 ft	5.8 m
26 x 12-12 tires	18 ft	5.5 m

23 x 10.50-12 tires		
Operating weight	3370 lb	1529 kg
Basic unit w/out plow blade or other options	310 lb	141 kg
H400 weight w/out boom, chain, or restraint bar	100 lb	45 kg
Reel carrier weight w/out reel		
Hydraulic motor, drilling	450 ft-lb	610 N-m
Torque, max.		
Speed, max.: 235 rpm		

Plow blades: Available for 12-in (305 mm), 18-in (450 mm), or 24-in (610 mm) blade depths; both pull-type and feed-type plow blades available; feed chutes available with 4-to-1 or 10-to-1 bend ratio

POWER

Engine: Deutz D2009L04

Fuel: Diesel

Cooling medium: Liquid

Injection: Indirect

Aspiration: Natural

Number of cylinders: 4

Mounting type: Isolated

Displacement

140 in³

2.3 L

Bore

3.5 in

90 mm

Stroke

3.5 in

90 mm

Manufacturer's gross power rating (SAE J1995)

48 hp

35.7 kW

Estimated net power rating (SAE J1349)

45 hp

33.6 kW

Rated speed: 2600 rpm

Emissions compliance

EPA Tier 4i

EU Stage IIIa

U.S.

METRIC

POWER TRAIN

Ground drive

Transmission: Hydrostatic drive, infinitely variable from zero to maximum, lever operated speed/direction control

Differentials: Dana 44, limited slip

Brake, service: Speed/direction control brakes machine hydrostatically when returned to neutral

Brake, parking: Mechanical disc and caliper, hand-operated

Tires: 23 x 10.50-12, tubeless 4-ply; 26 x 12-12, tubeless 4-ply; 26 x 12-12, 4-ply with tubes

Attachment drive transmission

Plow: Hydrostatic

Trencher: Hydrostatic

Roto Witch: Hydrostatic

HYDRAULIC SYSTEM

Ground drive pump capacity @ high idle

16.8 gpm

63.8 L/min

Ground drive relief valve setting

4000 psi

276 bar

Attachment pump capacity @ high idle

19.1 gpm

72.2 L/min

Attachment relief valve setting

3000 psi

207 bar

Auxiliary pump capacity @ high idle

7.9 gpm

29.8 L/min

Auxiliary pump relief valve setting

2000 psi

138 bar

Filtration

Charge pump, 25 psi (2 bar) bypass

10 micron nominal

Return full flow, 15 psi (1 bar) bypass

10 micron nominal

U.S.

METRIC

FLUID CAPACITIES

Fuel tank

8.8 gal

33.3 L

Engine oil

6.3 qt

6 L

Hydraulic reservoir

14 gal

53 L

Hydraulic system

16 gal

60 L

U.S.

METRIC

H400 TRENCHER ATTACHMENT

Vibrator oil

38 oz

1.1 L

BATTERY

SAE cold crank rating @ 0° F (-18° C): 800 A

SAE reserve capacity rating: 110 min

Group: 26/26R/70

NOISE LEVELS

Overall Sound Power [dB(A)]: 104

Operator Ear Number: 92

H400 TRENCHER ATTACHMENT

	U.S.	METRIC
Trench depth, maximum	36 in	910 mm
Trench width, minimum to maximum	3.5 in - 6 in	90 mm - 150 mm
Boom travel, down: 57°		
Boom travel, up: 78°		
Centerline trench to outside edge of machine, left	22 in	559 mm
Centerline trench to outside edge of machine, right	27 in	686 mm
Headshaft height		
Digging chain, up	24 in	610 mm
Digging chain, down	8 in	200 mm
Overhang, up	38.5 in	980 mm
Overhang, down	32 in	810 mm
Headshaft speed, without chain (no load): 310 rpm		
Digging chain speed	338 fpm	103 m/min

ROTO WITCH ATTACHMENT

	U.S.	METRIC
Bore diameter	1.75 in - 12 in	45 mm - 300 mm
Hydraulic motor		
Displacement	18.7 in ³	306 cm ³
Torque @ 2000 gpm	450 ft-lb	610 N·m
Speed @ 19 gpm, no load: 235 rpm		
Speed @ 19 gpm, 2000 psi: 190 rpm		

Specifications are called out according to SAE procedures. Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to select options, delivered equipment may not necessarily match that described. Dimensions are based on unit equipped with 26 x 12-12 tires unless otherwise specified.

*Suggested maximum depth. Actual depth will depend on job requirements and soil conditions.