



FINE MATERIAL WASHER

Accepts Feed up to 3/4" (19mm) While Removing Unwanted Fines in Sand



SAFEGUARD™ OUTBOARD BEARING

FEATURES

- » Only screw capable of handling up to 3/4" (19mm) material
- » Industry's largest size range up to 84" x 38' (2,134mm x 11.6m)
- » Low horsepower (kW) to tonnage ratio
- » Safeguard Outboard Bearing installed away from water tank

APPLICATIONS

- » Removes silts and lightweight particles
- » Adjustable weir for leveling
- » Incline dewater material to 15-25% moisture

FEATURES



01/ CURVED BELLY PAN

Eliminates dead spots for material to gather common to 90° angles.

02/ SAFEGUARD OUTBOARD BEARING

Off-the-shelf pillow block bearing installed outside tank for protection and easy maintenance.

03/ FULLY-GUARDED DRIVE SYSTEM

Utilizes common off-the-shelf, shaft-mounted gear reducer.

04/ FLUSHBACK NOZZLE

Improves dewatering by removing inactive sand near discharge.

05/ ADJUSTABLE WEIR PLATE

Encourages overflow water to level, which maximizes fines retention.

06/ LOAD ZONE Baffle

Calms water to help maximize fines retention

07/ HEAVY-DUTY BASE FRAME

Allows for a crane free installation into an existing footprint.

08/ BELLY DRAIN

Incorporated into the belly pan to allow easy clean out.

09/ SPIRAL TYPE SHAFT

Heavy duty, 1/2" (12.7mm) thick wall auger shaft.

10/ URETHANE WEAR SHOES

Manufactured with internal steel plate to hold up in harsh applications.

OPTIONS

TWIN SCREW

ROAD PORTABLE PACKAGE

REDUCED SCREW SPEED

ROCK GRADE RUBBER WEAR SHOES

A-532 WEAR SHOES

MATERIAL DISCHARGE CHUTE

SAFETY COVERS

SKID FRAME

HYDRAULIC DRIVE

FOLDING WING WALLS

FEATURES



01 / CURVED BELLY PAN



02/ SAFEGUARD OUTBOARD BEARING



03/ GUARDED DRIVE SYSTEM



04/ FLUSH-BACK NOZZLE



05/ ADJUSTABLE WEIR PLATE



10/ URETHANE WEAR SHOES

Rock Face to Load Out*

SINGLE SCREW SPECIFICATIONS

Screw Size in x ft (mm x m)	Capacity TPH (MTPH)	Peripheral Screw Speed FPM (MPS)	Screw Speed RPM	Auger Motor Size HP (kW)	Water Capacity GPM (m ³ /hr)			Estimated Empty Weight lbs. (kg)	Estimated Operatating Weight lbs. (kg)
					100 Mesh*	150 Mesh*	200 Mesh*		
12" x 14' (304 x 4)	20 (18)	120 (0.6)	40	3 (2.0)					
	15 (13)	90 (0.4)	30	3 (2.0)					
	10 (9)	60 (0.3)	20	3 (2.0)	150 (34)	100 (22)	50 (11)	2,800 (1,270)	7,000 (3,175)
	5 (4)	30 (0.1)	10	3 (2.0)					
24" x 24' (609 x 7)	50 (45)	200 (1.0)	32	7.5 (5.5)					
	38 (34)	150 (0.8)	24	5 (3.5)	500 (113)	225 (51)	125 (28)	7,000 (3,175)	26,500 (12,020)
	25 (22)	100 (0.5)	16	5 (3.5)					
30" x 24' (762 x 7)	75 (68)	200 (1.0)	25	15 (11.0)					
	56 (50)	150 (0.8)	19	10 (7.5)	575 (130)	275 (62)	160 (36)	8,600 (3,900)	28,100 (12,745)
	38 (34)	100 (0.5)	13	7.5 (5.5)					
36" x 25' (914 x 7)	100 (90)	200 (1.0)	20	15 (11.0)					
	75 (68)	150 (0.8)	15	10 (7.5)	700 (159)	330 (74)	180 (40)	8,000 (3,630)	42,800 (19,415)
	50 (45)	100 (0.5)	12	7.5 (5.5)					
44" x 32'*** (1,118 x 10)	175 (159)	200 (1.0)	17	20 (15.0)					
	130 (118)	150 (0.8)	14	15 (11.0)	1,600 (363)	750 (170)	425 (96)	18,000 (8,165)	66,000 (29,935)
	85 (77)	100 (0.5)	9	10 (7.5)					
48" x 35' (1,219 x 11)	200 (181)	200 (1.0)	16	25 (18.5)					
	150 (136)	150 (0.8)	12	20 (15.0)	1,700 (386)	850 (193)	450 (102)	20,500 (9,300)	80,000 (36,285)
	100 (91)	100 (0.5)	8	15 (11.0)					
54" x 35' (1,372 x 11)	275 (249)	200 (1.0)	15	30 (22.0)					
	210 (191)	150 (0.8)	12	25 (18.5)	1,900 (431)	950 (215)	575 (130)	22,000 (9,980)	107,000 (48,535)
	140 (127)	100 (0.5)	8	20 (15.0)					
60" x 35' (1,524 x 11)	340 (308)	200 (1.0)	14	40 (29.5)					
	255 (231)	150 (0.8)	9	30 (22.0)	2,200 (500)	1,050 (238)	600 (136)	23,350 (10,600)	100,000 (45,360)
	170 (154)	100 (0.5)	7	25 (18.5)					
66" x 35' (1,676 x 11)	400 (363)	200 (1.0)	13	50 (37.0)					
	300 (272)	150 (0.8)	11	40 (29.5)	2,400 (545)	1,200 (272)	650 (147)	36,000 (16,330)	135,000 (61,235)
	200 (181)	100 (0.5)	7	30 (22.0)					
72" x 38' (1,829 x 12)	475 (431)	235 (1.2)	11	60 (44.0)					
	360 (327)	180 (0.9)	8	50 (37.0)	2,600 (590)	1,300 (295)	700 (159)	32,000 (14,515)	184,000 (83,460)
	240 (218)	126 (0.6)	6	40 (29.5)					
84" x 38' (2,134 x 12)	600 (544)	260 (1.3)	9	75 (55.0)					
	450 (408)	160 (0.8)	7	60 (44.0)	3,100 (704)	1,600 (363)	850 (193)	43,000 (19,505)	249,000 (112,945)
	300 (272)	110 (0.6)	5	50 (37.0)					

* 100 Mesh (150 µm), 150 Mesh (113 µm), 200 Mesh (75 µm). **Optional hinged folding wing walls allow for quick transition from transport to operation modes.

TWIN SCREW SPECIFICATIONS

Screw Size in x ft (mm x m)	Capacity TPH (MTPH)	Peripheral Screw Speed FPM (MPS)	Screw Speed RPM	Auger Motor Size HP (kW)	Water Capacity GPM (m ³ /hr)			Estimated Empty Weight lbs. (kg)	Estimated Operating Weight lbs. (kg)
					100 Mesh*	150 Mesh*	200 Mesh*		
24" x 24' (609 x 7)	100 (90)	200 (1.0)	32	(2) 7.5 (5.5)					
	75 (68)	150 (0.8)	24	(2) 5 (3.5)	890 (202)	420 (95)	235 (53)	12,000 (5,445)	47,800 (21,860)
	50 (45)	100 (0.5)	16	(2) 5 (3.5)					
30" x 24' (762 x 7)	150 (136)	200 (1.0)	25	(2) 15 (11.0)					
	120 (108)	150 (0.8)	19	(2) 10 (7.5)	1,000 (227)	490 (111)	280 (63)	14,000 (6,350)	63,000 (28,575)
	100 (91)	100 (0.5)	13	(2) 7.5 (5.5)					
36" x 25' (914 x 7)	200 (181)	200 (1.0)	20	(2) 15 (11.0)					
	150 (136)	150 (0.8)	15	(2) 10 (7.5)	1,250 (283)	620 (140)	340 (77)	18,550 (8,415)	70,000 (31,750)
	100 (91)	100 (0.5)	10	(2) 7.5 (5.5)					
44" x 32'** (1,118 x 10)	350 (318)	200 (1.0)	17	(2) 20 (15.0)					
	260 (236)	150 (0.8)	14	(2) 15 (11.0)	2,800 (635)	1,400 (318)	675 (0.04)	30,000 (13,605)	130,000 (58,965)
	170 (154)	100 (0.5)	9	(2) 10 (7.5)					
48" x 35' (1,219 x 11)	400 (363)	200 (1.0)	16	(2) 25 (18.5)					
	300 (272)	150 (0.8)	12	(2) 20 (15.0)	3,000 (0.18)	1,450 (0.09)	750 (153)	35,000 (15,875)	186,000 (84,370)
	200 (181)	100 (0.5)	8	(2) 15 (11.0)					
54" x 35' (1,372 x 11)	550 (499)	200 (1.0)	15	(2) 30 (22.0)					
	410 (371)	150 (0.8)	12	(2) 25 (18.5)	3,500 (794)	1,750 (397)	950 (215)	39,000 (17,690)	163,000 (73,935)
	275 (250)	100 (0.5)	8	(2) 20 (15.0)					
60" x 35' (1,524 x 11)	680 (617)	200 (1.0)	14	(2) 40 (29.5)					
	510 (463)	150 (0.8)	9	(2) 30 (22.0)	3,700 (840)	1,800 (408)	975 (221)	42,000 (19,050)	178,000 (80,740)
	340 (308)	100 (0.5)	7	(2) 25 (18.5)					
66" x 35' (1,676 x 11)	800 (726)	200 (1.0)	13	(2) 50 (37.0)					
	600 (544)	150 (0.8)	11	(2) 40 (29.5)	4,000 (908)	2,000 (454)	1,200 (272)	64,000 (29,030)	302,000 (136,985)
	400 (363)	100 (0.5)	7	(2) 30 (22.0)					
72" x 38' (1,829 x 12)	950 (862)	200 (1.0)	11	(2) 60 (44.0)					
	710 (644)	150 (0.8)	8	(2) 50 (37.0)	4,500 (1,022)	2,200 (500)	1,250 (283)	64,500 (29,255)	380,500 (172,590)
	475 (431)	100 (0.5)	6	(2) 40 (29.5)					
84" x 38' (2,134 x 12)	1,100 (998)	200 (1.0)	9	(2) 75 (55.0)					
	825 (748)	150 (0.8)	7	(2) 60 (44.0)	4,800 (1,090)	2,500 (567)	1,350 (306)	70,500 (31,980)	490,000 (222,260)
	550 (499)	100 (0.5)	5	(2) 50 (37.0)					

* 100 Mesh (150 µm), 150 Mesh (113 µm), 200 Mesh (75 µm). **Optional hinged folding wing walls allow for quick transition from transport to operation modes.

HORSEPOWER COMPARISON AT MAXIMUM CAPACITY (SINGLE SCREW)

Screw Size in x ft (mm x m)	Superior HP (kW)	McLanahan HP (kW)	Eagle Iron HP (kW)	Trio/Weir HP (kW)
12" x 14' (304 x 4)	3 (2.0)	N/A	3 (2.0)	N/A
24" x 24' (609 x 7)	7.5 (5.5)	10 (7.5)	7.5 (5.5)	N/A
30" x 24' (762 x 7)	15 (11.0)	15 (11.0)	15 (11.0)	N/A
36" x 25' (914 x 7)	15 (11.0)	15 (11.0)	15 (11.0)	15 (11.0)
44" x 32' (1,118 x 10)	20 (15.0)	25 (18.5)	25 (18.5)	25 (18.5)
48" x 35' (1,219 x 11)	25 (18.5)	N/A	30 (22.0)	N/A
54" x 32' (1,372 x 10)	30 (22.0)	40 (29.5)	40 (29.5)	40 (29.5)
60" x 35' (1,524 x 11)	40 (29.5)	N/A	N/A	N/A
66" x 35' (1,676 x 11)	50 (37.0)	60 (44.0)	60 (44.0)	60 (44.0)
72" x 38' (1,829 x 12)	60 (44.0)	60 (44.0)	75 (55.0)	N/A
84" x 38' (2,134 x 12)	75 (55.0)	N/A	N/A	N/A

SHOE SELECTION

Shoe Material	Application
Urethane	Natural Aggregate
	Contaminated Feed
Rubber	Natural Aggregate
	Crushed Limestone
	Frac Sand
A532 Iron	Crushed Aggregate
	High Silica Feed
	Cullet
	Ferrosilicon

PHOTO GALLERY

