CONDOR
By Eagle Iron Works

EAGLE IRON WORKS
A McLanahan Company

CONDOR FINE MATERIAL WASHERS

CONDOR Fine Material Washers offer many of the same benefits as Eagle Iron Works Classic Screw Washers - long operational life; extremely low operating cost; short return on investment (ROI); incorporating the widely recognized, heavy-duty design; and durable wear parts - at a more competitive offer.

CONDOR Fine Material Washers feature the same outboard bearings, shaft dimensions, full length curve plate, rising current plate and adjustable weirs as Classic Eagle Screw Washers. The washer tubs are constructed with the same material, steel thickness and matching capacities as the Classic Eagle Screw Washer tubs. The main difference is that CONDOR units are built with an industry recognized Dodge TA II reducer, sized for a long life of continuous operation. Standard white iron wear shoes come standard on CONDOR Screw Washers.

Available in the following models:

- Fine Screw Washers – Single & Dual Shaft Models – 36”, 44”, 48”, 54”, 66”

For over 145 years Eagle Iron Works has been solving customers’ most difficult aggregate processing applications. This tradition continues with the CONDOR Fine Material Washer series alongside the industry leading Classic Eagle Fine Material Washers.

FEATURES/BENEFITS

- Same physical mounting points and dimensions as Classic Eagle products, allowing for easy replacement or upgrade
- Same tough washing, dewatering or classification capabilities
- Same Eagle designed rising current classifier, full-length curve plate, backflush water and replaceable wear parts
- Standard-duty screw shaft standard, with heavy-duty Eagle Iron Works screw shafts as optional upgrade
- Standard safety guarding
- Quick return on investment
- Legendary Eagle Iron Works support through the life of the machine

CONDOR
By Eagle Iron Works

EAGLE IRON WORKS
A McLanahan Company

CONDOR Shaft - Fine Washer

An EIW portable wash plant with an integral Condor Fine Material Washer

CONDOR Single Screw Fine Material Washers Capacities

Size (Dia. x Length)	Maximum Capacity	Electric Motor	Shaft (RPM)	Hydraulic Mesh Split		
				100 Mesh	150 Mesh	200 Mesh
36" x 25' (914 mm x 7.6 m)	100 STPH (90.7 MTPH)	15 HP (11 kW)	21	720 USGPM (163.5 m^3/hour)	320 USGPM (72.6 m^3/hour)	180 USGPM (40.8 m^3/hour)
44" x 32' (1117 mm x 9.7 m)	175 STPH (158.7 MTPH)	25 HP (19 kW)	17	1,720 USGPM (390.6 m^3/hour)	760 USGPM (172.6 m^3/hour)	460 USGPM (104.4 m^3/hour)
48" x 33' (1219 mm x 10.0 m)	208 STPH (188.6 MTPH)	30 HP (22 kW)	17	1,965 USGPM (446.3 m^3/hour)	872 USGPM (198.0 m^3/hour)	490 USGPM (111.2 m^3/hour)
54" x 34' (1371 mm x 10.3 m)	275 STPH (249.4 MTPH)	40 HP (30 kW)	14	2,090 USGPM (474.6 m^3/hour)	930 USGPM (211.2 m^3/hour)	575 USGPM (130.5 m^3/hour)
66" x 35' (1676 mm x 10.6 m)	400 STPH (362.8 MTPH)	60 HP (45 kW)	11	2,590 USGPM (588.2 m^3/hour)	1,150 USGPM (261.1 m^3/hour)	650 USGPM (147.6 m^3/hour)

CONDOR Double Screw Fine Material Washers Capacities

Size (Dia. x Length)	Maximum Capacity	Electric Motor	Shaft (RPM)	Hydraulic Mesh Split		
				100 Mesh	150 Mesh	200 Mesh
36" x 25' (914 mm x 7.6 m)	200 STPH (181.4 MTPH)	2 x 15 HP (22 kW)	21	1,250 USGPM (283.9 m^3/hour)	640 USGPM (145.3 m^3/hour)	360 USGPM (81.7 m^3/hour)
44" x 32' (1117 mm x 9.7 m)	350 STPH (317.5 MTPH)	2 x 25 HP (37 kW)	17	2,800 USGPM (635.9 m^3/hour)	1,440 USGPM (327.0 m^3/hour)	810 USGPM (183.9 m^3/hour)
48" x 33' (1219 mm x 10.0 m)	416 STPH (377.3 MTPH)	2 x 30 HP (45 kW)	17	3,100 USGPM (704.0 m^3/hour)	1,550 USGPM (352.0 m^3/hour)	860 USGPM (195.3 m^3/hour)
54" x 34' (1371 mm x 10.3 m)	550 STPH (498.9 MTPH)	2 x 40 HP (60 kW)	14	3,700 USGPM (840.3 m^3/hour)	1,750 USGPM (397.4 m^3/hour)	935 USGPM (212.3 m^3/hour)
66" x 35' (1676 mm x 10.6 m)	800 STPH (725.7 MTPH)	2 x 60 HP (90 kW)	11	4,375 USGPM (993.6 m^3/hour)	2,100 USGPM (476.9 m^3/hour)	1,095 USGPM (248.7 m^3/hour)

CONDOR Fine Material Washer Speeds*

Percent Passing 50 Mesh (300 Micron) In Washed Sand Discharging									
0 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 85
100% Speed	75% Speed	60% Speed	50% Speed	45% Speed	40% Speed	35% Speed	30% Speed	25% Speed	16% Speed

*Finer sands require a slower shaft speed rotation to allow dewatering. When washer speed is reduced, so is the unit's capacity in the same proportion of speed reduction.