

**EAGLE IRON WORKS**

# CONDOR FINE MATERIAL WASHERS

CONDOR Fine Material Washers offer many of the same benefits as Eagle Classic Fine Material Washers. They provide a long operational life, extremely low operating costs and a short return on investment (ROI). The design is widely recognized for its heavy-duty construction and durable wear parts, all at a more competitive price.

CONDOR Fine Material Washers feature the same outboard bearings, wear shoes, full length curve plate, rising current plate and adjustable weirs as Classic Fine Material Washers. The washer tubs are constructed with the same material, steel thickness and matching capacities as the classic screw washer design. 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. White iron wear shoes come standard on CONDOR Washers.

Fine Material Washers perform washing, classifying and dewatering by the continuous rotation of the spiral conveyor shaft and velocity of the overflowing wastewater acting on the feed material. The rotating shaft agitates the material, providing particle-on-particle attrition and allowing deleterious coatings to be removed from the solids and discharged with overflowing wastewater.

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 Fine Material Washers.



## Available in the following models:

Single & Dual Shaft Models:  
36", 44", 48", 54", 66"

## Design Features

Industry-recognized Dodge TA II reducer	Standard white iron wear shoes
Outboard bearings for shaft support	Full-length curved plate for material flow
Rising current plate for fines separation	Adjustable weirs for variable operation
Thick-gauge steel washer tub	Large diameter shafts
Durable wear parts for long operational life	Competitively priced for value-driven performance

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A McLanahan Company

# CONDOR FINE MATERIAL WASHERS

## Single Shaft - CONDOR Fine Material Washers

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 <sup>3</sup> /hour)	320 USGPM (72.6 m <sup>3</sup> /hour)	180 USGPM (40.8 m <sup>3</sup> /hour)
44" x 32' (1,117 mm x 9.7 m)	175 STPH (158.7 MTPH)	25 HP (19 kW)	17	1,720 USGPM (390.6 m <sup>3</sup> /hour)	760 USGPM (172.6 m <sup>3</sup> /hour)	460 USGPM (104.4 m <sup>3</sup> /hour)
48" x 33' (1,219 mm x 10.0 m)	208 STPH (188.6 MTPH)	30 HP (22 kW)	17	1,965 USGPM (446.3 m <sup>3</sup> /hour)	872 USGPM (198.0 m <sup>3</sup> /hour)	490 USGPM (111.2 m <sup>3</sup> /hour)
54" x 34' (1,371 mm x 10.3 m)	275 STPH (249.4 MTPH)	40 HP (30 kW)	14	2,090 USGPM (474.6 m <sup>3</sup> /hour)	930 USGPM (211.2 m <sup>3</sup> /hour)	575 USGPM (130.5 m <sup>3</sup> /hour)
66" x 35' (1,676 mm x 10.6 m)	400 STPH (362.8 MTPH)	60 HP (45 kW)	11	2,590 USGPM (588.2 m <sup>3</sup> /hour)	1,150 USGPM (261.1 m <sup>3</sup> /hour)	650 USGPM (147.6 m <sup>3</sup> /hour)

## Double Shaft - CONDOR Fine Material Washers

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 <sup>3</sup> /hour)	640 USGPM (145.3 m <sup>3</sup> /hour)	360 USGPM (81.7 m <sup>3</sup> /hour)
44" x 32' (1,117 mm x 9.7 m)	350 STPH (317.5 MTPH)	2 x 25 HP (37 kW)	17	2,800 USGPM (635.9 m <sup>3</sup> /hour)	1,440 USGPM (327.0 m <sup>3</sup> /hour)	810 USGPM (183.9 m <sup>3</sup> /hour)
48" x 33' (1,219 mm x 10.0 m)	416 STPH (377.3 MTPH)	2 x 30 HP (45 kW)	17	3,100 USGPM (704.0 m <sup>3</sup> /hour)	1,550 USGPM (352.0 m <sup>3</sup> /hour)	860 USGPM (195.3 m <sup>3</sup> /hour)
54" x 34' (1,371 mm x 10.3 m)	550 STPH (498.9 MTPH)	2 x 40 HP (60 kW)	14	3,700 USGPM (840.3 m <sup>3</sup> /hour)	1,750 USGPM (397.4 m <sup>3</sup> /hour)	935 USGPM (212.3 m <sup>3</sup> /hour)
66" x 35' (1,676 mm x 10.6 m)	800 STPH (725.7 MTPH)	2 x 60 HP (90 kW)	11	4,375 USGPM (993.6 m <sup>3</sup> /hour)	2,100 USGPM (476.9 m <sup>3</sup> /hour)	1,095 USGPM (248.7 m <sup>3</sup> /hour)

## CONDOR Fine Material Washer Speeds \*

Percentage Passing 50 Mesh (300 Microns) in Discharged Washed Sand									
0-15%	15-20%	20-25%	25-30%	30-35%	35-40%	40-45%	45-50%	50-55%	55-85%
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.

