dodausa.com

AFI HORIZONTAL CHOPPER PUMPS







AFI HORIZONTAL CHOPPER PTO PUMPS

The AFI Pump is a high-pressure chopper pump which can be mounted on a tractor or connect to a direct power source. Vanadium and manganese alloy chopper blades chop the slurry prior to pumping, allowing for fuel efficient, block free operation. An oil cooling system keeps the gearbox cool even in heavy and prolonged conditions, resulting in the most efficient, low maintenance agricultural pressure pump on the market.

PATENTED CHOPPING SYSTEM

The patented chopping system consisting of two static and one rotating chopper blade handles the most challenging solids. Blades are made of a special vanadium and manganese alloy for durability. The waste then passes to the high speed impeller system that utilizes an adjustable pressure plate that chops the waste again. The system is an open impeller system allowing it to handle the most difficult waste.

Doda pumps chopping feature assure the waste is properly conditioned assuring less plug ups in the field when being injected or irrigated.

INTERNAL CHECK VALVE

The intake (suction) cone has an internal check valve built in that holds the pump's prime during periodic shutdowns allowing startup without repriming again.

Intake cones are available for six inch and eight inch suction hoses. Adapters are also available for connecting AFI pumps directly to storage unit.

POWER PRIMER SYSTEM

Doda's power priming system assures fast priming from deep depths and works great with thick slurries. Power Primers are available in belt drive, hydraulic drive, 12 volt drive and single/ three phase electric motor options.



PATENTED CHOPPING SYSTEM



INTERNAL CHECK VALVE

AFI PUMP FEATURES

- > Unique stone/debris protection system
- Mechanical seal is separate from the gear box to eliminate contamination
- > Stainless steel or nodular cast iron housing, not welded
- Adjustable pressure plate and special impeller for secondary chopping
- Internal check valve on suction cone allowing startup without repriming
- Pedestal models setup for direct power source (electric, diesel, hydraulic)
- > Vertical head pressure of up to 450 ft or 200 PSI
- Heavy duty gear boxes are available in 540 or 1000 RPM with a variety of gear ratios
- > Heavy duty PTOs with shear bolts are standard
- > Chrome plated shaft at seal system location
- > Two-wheel trailer or a two-point hook up are available to attach pump to tractor

SEAL SYSTEMS

Doda's tungsten-carbide seal system is long lasting and the pump support separates the pump from the gear box. In the unlikely event of a seal failure the gear box is safe. An Oil Bath Seal System is now availble. Should pump lose its prime and is unattended the seal system will not be damaged.

DISCHARGE OPTIONS

Tee Manifold with one or two valves is popular for agitating and loading transport units. Simply switch from valve to valve while pump is running.

Doda's Two Way Valve allows you to discharge off either side of the pump and its design is fail safe if pump is left unattended for long periods. The unique design utilizes the pumps pressure to keep one side of the valve shut while discharging out of the other. This valve cannot be switched when the pump is running.



POWER PRIMER SYSTEM



DODA TWO WAY VALVE



AFI L20



AFI L27



All Doda AFI Pumps can be set up as vertical pumps if required or desired. Floating units are also available in electric versions.

Doda USA Inc. carries a large variety of hose, coupler, valves, clamps and other items for your waste handling needs.

Need some advice or a second opinion on how to deal with your waste handling issues? Give us a call and we will gladly assist you in any way, including on-site consultations and helping with your design setup.

AFI L25



AFI L35



AFI L45



AFI HD PTO PUMPS

Doda Horizontal HD PTO Pumps have the same great features as all Doda AFI Horizontal Pumps.

- Specially designed for extremely heavy duty applications, requires a minimum 200 HP
- > Oil cooled gear box is standard
- Extra heavy duty undercarriage supplied as standard equipment
- > eight inch or 10 inch suction intake required
- Super duty PTO supplied as standard equipment (1000 RPM only)
- > Power primer system is supplied as standard equipment
- > Ideal for umbilical systems or long irrigation runs
- > Designed for continuous duty







AFI PEDESTAL PUMPS



Doda Horizontal Pedestal Pumps have the same great features as the PTO models and are set up for a direct power source. Other features include:

- > Pedestal pumps, drive shaft and bearings are in oil bath
- > Power primer is available in hydraulic and electric versions
- Doda Pedestal Pumps can connect to diesel, gas, electric or hydraulic motors

Visit dodausa.com to check out our other waste solution products.

AFI PUMP PERFORMANCE CHART

Not 134 <th>RATIO</th> <th>RPM</th> <th>IMPELLER REV.</th> <th>REV.</th> <th></th> <th>, in the second s</th> <th>3</th> <th>195</th> <th></th> <th>FLOW</th> <th>FLOW RATE Gal/Min</th> <th>Min</th> <th>1010</th> <th></th> <th>1.01</th> <th></th> <th></th>	RATIO	RPM	IMPELLER REV.	REV.		, in the second s	3	195		FLOW	FLOW RATE Gal/Min	Min	1010		1.01		
1 1					106	158	211	265	396	528	660	793	1056	1320	1585	2377	3170
	1:6,417 540 3465	346	5	PSI VSI		115 24	109 28	105 32	88 42								
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $	1:6,2 540 3348	334	œ	SS	150 68	148 70	145 73	140 75	116 80	70 86							
	1:4,93 540 2662	266	5	RSS V	85 48	84 50	81 55	80 57	68 64								
	3450 3450	345	0	IS S	160 50	158 55	155 55	150 60	135 68	125 80	90 95						
	1:6,2 540 33	33/	8	SS SS	166 73	162 76	159 80	158 81	143 87	125 93							
(5) (5) <th>1:3,88 540 2096</th> <th>205</th> <th>96</th> <th>R SI</th> <th></th> <th></th> <th>58 35</th> <th>57 36</th> <th>55 38</th> <th>51 41</th> <th>42 43</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	1:3,88 540 2096	205	96	R SI			58 35	57 36	55 38	51 41	42 43						
0% 0%<	1:4,93 540 2662	266	22	RSS V				81 64	80 68	74 71	68 74	57 70					
(7) (7) <th>1:3,35 1000 335</th> <th>335</th> <td>0</td> <td>SS</td> <td></td> <td></td> <td></td> <td></td> <td>126 102</td> <td>124 105</td> <td>116 108</td> <td>108 112</td> <td>68 118</td> <td></td> <td></td> <td></td> <td></td>	1:3,35 1000 335	335	0	SS					126 102	124 105	116 108	108 112	68 118				
(7) (7) <th>1:3,88 540 209</th> <th>205</th> <td>96</td> <td>IS V</td> <td></td> <td></td> <td>33.80</td> <td>78 35</td> <td>74 39</td> <td>68 43</td> <td>58 46</td> <td>43 51</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1:3,88 540 209	205	96	IS V			33.80	78 35	74 39	68 43	58 46	43 51					
(7) (7) <th>1:4,93 540 2662</th> <th>266</th> <td>22</td> <td>R SI</td> <td></td> <td></td> <td>129 59</td> <td>127 62</td> <td>124 69</td> <td>117 73</td> <td>108 81</td> <td>94 89</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1:4,93 540 2662	266	22	R SI			129 59	127 62	124 69	117 73	108 81	94 89					
(5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) (7) <th>1:3,35 1000 3350</th> <th>335</th> <td>0</td> <td>SS</td> <td></td> <td></td> <td>206 114</td> <td>202 117</td> <td>196 127</td> <td>189 135</td> <td>178 144</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1:3,35 1000 3350	335	0	SS			206 114	202 117	196 127	189 135	178 144						
(7) (7) <th>1:3,31 824 2727</th> <th>272</th> <td>-</td> <td>RSS V</td> <td></td> <td></td> <td></td> <td>129 78</td> <td>136 85</td> <td>129 93</td> <td>118 100</td> <td>104 108</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1:3,31 824 2727	272	-	RSS V				129 78	136 85	129 93	118 100	104 108					
(5) (5) <th>1000 2000</th> <th>200(</th> <td></td> <td>SS</td> <td></td> <td></td> <td></td> <td>119 69</td> <td>118 73</td> <td>114 78</td> <td>109 82</td> <td>102 87</td> <td>82 96</td> <td></td> <td></td> <td></td> <td></td>	1000 2000	200(SS				119 69	118 73	114 78	109 82	102 87	82 96				
(5) (5) <th>1:3,88 540 2096</th> <th>209(</th> <td></td> <td>SS</td> <td></td> <td></td> <td></td> <td>133 73</td> <td>131 79</td> <td>128 84</td> <td>122 90</td> <td>116 95</td> <td>99 105</td> <td></td> <td></td> <td></td> <td></td>	1:3,88 540 2096	209(SS				133 73	131 79	128 84	122 90	116 95	99 105				
(7) (7) <th>1:2,38 1000 2380</th> <th>238</th> <td>0</td> <td>SSI</td> <td></td> <td></td> <td></td> <td>173 110</td> <td>169 116</td> <td>163 122</td> <td>158 128</td> <td>151 134</td> <td>142 139</td> <td></td> <td></td> <td></td> <td></td>	1:2,38 1000 2380	238	0	SSI				173 110	169 116	163 122	158 128	151 134	142 139				
[7] [7] [2] <th>1:2,73 1000 2730</th> <th>273</th> <th>0</th> <th>PSI</th> <th></th> <th></th> <th></th> <th></th> <th>216 197</th> <th>216 205</th> <th>215 212</th> <th>211 220</th> <th>199 235</th> <th>170 250</th> <th></th> <th></th> <th></th>	1:2,73 1000 2730	273	0	PSI					216 197	216 205	215 212	211 220	199 235	170 250			
[7] [7] [2] <th>1:3,05 910 2775</th> <th>277</th> <th>15</th> <th>SSI</th> <th></th> <th></th> <th></th> <th></th> <th>216 197</th> <th>216 205</th> <th>215 212</th> <th>211 220</th> <th>199 235</th> <th>170 250</th> <th></th> <th></th> <th></th>	1:3,05 910 2775	277	15	SSI					216 197	216 205	215 212	211 220	199 235	170 250			
[5] [9] <th>1:3,31 824 27</th> <th>27.</th> <th>27</th> <th>SSI</th> <th></th> <th></th> <th></th> <th></th> <th>216 197</th> <th>216 205</th> <th>215 212</th> <th>211 220</th> <th>199 235</th> <th>170 250</th> <th></th> <th></th> <th></th>	1:3,31 824 27	27.	27	SSI					216 197	216 205	215 212	211 220	199 235	170 250			
[5] [3] <th>3450 34</th> <th>34</th> <th>50</th> <th>PSI</th> <th></th> <th></th> <th>105 30</th> <th>90 34</th> <th>60 40</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	3450 34	34	50	PSI			105 30	90 34	60 40								
No. No. <th>1500 15</th> <th>15</th> <th>00</th> <th>SSI</th> <th></th> <th></th> <th></th> <th>37 17</th> <th>34 19</th> <th>27 22</th> <th>14 24</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	1500 15	15	00	SSI				37 17	34 19	27 22	14 24						
No. No. <th>2000 20</th> <th>5(</th> <th>2000</th> <th>SS</th> <th></th> <th></th> <th></th> <th>71 32</th> <th>68 36</th> <th>88 38</th> <th>53 42</th> <th>36 45</th> <th></th> <th></th> <th></th> <th></th> <th></th>	2000 20	5(2000	SS				71 32	68 36	88 38	53 42	36 45					
R3 203 203 195 185 155 210 7 R3 70 70 70 70 70 7 7 7 R3 70 70 70 70 7 7 7 7 R3 70 7 7 7 7 7 7 7 R3 70 7 7 7 7 7 7 7 7 R3 7 7 7 7 7 7 7 7 7 7 R3 7 <t< th=""><th>2500 25</th><th>25</th><th>00</th><th>SSI</th><th></th><th></th><th></th><th>112 52</th><th>109 57</th><th>104 63</th><th>95 70</th><th>80 76</th><th></th><th></th><th></th><th></th><th></th></t<>	2500 25	25	00	SSI				112 52	109 57	104 63	95 70	80 76					
PSI PSI <th>3450 34</th> <th>34</th> <th>50</th> <th>SS</th> <th></th> <th></th> <th></th> <th></th> <th>205 145</th> <th>200 150</th> <th>195 170</th> <th>185 185</th> <th>155 210</th> <th></th> <th></th> <th></th> <th></th>	3450 34	34	50	SS					205 145	200 150	195 170	185 185	155 210				
PSI T19 T13 T13 <tht13< th=""> <tht13< th=""> <tht13< th=""></tht13<></tht13<></tht13<>	1500 15	÷	1500	SS				67 30	64 33	61 36	55 38	47 41	14 46				
PSI Desi 130 185 177 170 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 163 173 174 175 175 175 175 170 <th>2000 20</th> <th>5(</th> <td>2000</td> <td>SSI</td> <td></td> <td></td> <td></td> <td>119 69</td> <td>118 73</td> <td>113 78</td> <td>102 82</td> <td>88 87</td> <td>82 96</td> <td></td> <td></td> <td></td> <td></td>	2000 20	5(2000	SSI				119 69	118 73	113 78	102 82	88 87	82 96				
Psi T <tht< th=""> T <tht< th=""> <tht< th=""></tht<></tht<></tht<>	2500 21	5	2500	SSI					190 124	185 130	177 137	170 144	163 150				
	1000 10	7	1000	PSI									75 42	71 65	57 75	47 110	14 130

Doda USA offers specialized equipment built stronger to execute your agricultural waste handling needs. We approach our sales, installations and on-going maintenance plans with a hands-on approach, making us a trusted partner for your operation to produce.

BUILT STRONGER. LASTS LONGER.



dodausa.com > 507.375.5577 > St. James, MN