



# ALTO PRODUCTS CORP.

One Alto Way • Atmore • Alabama • 36502 • USA • ☎251.368.7777 • 📠251.368.7774 • [www.altoUSA.com](http://www.altoUSA.com)



## HEAVY DUTY FRICTION MATERIAL & TRANSMISSION PARTS

Truck • Bus • Construction • Earth Moving • Agricultural • Material Handling

# ALTO HEAVY DUTY CATALOG

## ALLIS CHALMERS

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1004876	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
1018224	049700BR	Friction Clutch	FRICTION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
1018238	023738BR	Friction Clutch	FRICTION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
1018239	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
11018222	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
11018222	023701-140	Steel Clutch	SELECTIVE STEEL	138.99 x 99.01 x 1.40	5.472 x 3.898 x .055	54 EXT
4913971	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
4913985	049720-200	Friction Clutch	FRICTION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
4917871	053703	Steel Clutch	STEEL (MATES WITH 053702)	156.03 x 119.13 x 1.80	6.143 x 4.690 x .071	12 EXT
4917873	053702	Friction Clutch	FRICTION TAN PL	142.98 x 110.08 x 1.55	5.629 x 4.334 x .061	24 INT
4917896	053700	Friction Clutch	FRICTION HEG SMOOTH	99.85 x 68.17 x 1.55	3.931 x 2.684 x .061	34 INT
70256524	302702BR	Friction Clutch	FRICTION PTO BRONZE (8 PER UNIT)	152.32 x 85.85 x 3.05	5.997 x 3.380 x .120	28 INT
70261212	302704BR	Friction Clutch	FRICTION BRONZE	177.57 x 99.49 x 3.05	6.991 x 3.917 x .120	32 INT
70265486	302703	Steel Clutch	STEEL PTO	176.83 x 97.59 x 1.91	6.962 x 3.842 x .075	3 EXT
70265487	302767	Steel Clutch	WAVE SPRING	164.72 x 156.82 x .76	6.485 x 6.174 x .030	
70734526	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
71004876	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
71005843	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
9502757	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT

## ALLISON - OTHER CLUTCHES

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23010438	352702-520	Friction Clutch	FRICTION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
6758737	179763-500	Steel Clutch	STEEL CLBT-4460	311.15 X 234.95 X 5.05	12.25 X 9.25 X .199	8 EXT
6770865	352703	Steel Clutch	STEEL STEPPED - APPLY PRESSURE PLATE	257.18 x 175.64 x 7.98	10.125 x 6.915 x .314	8 EXT
6770916	352707-500	Steel Clutch	STEEL	209.55 x 157.48 x 4.97	8.250 x 6.200 x .196	8 EXT
6770917	178721	Steel Clutch	STEEL Mating plate to 352710-385	209.70 x 157.02 x 2.41	8.256 x 6.182 x .095	8 EXT
6776092	317721-300	Steel Clutch	STEEL	330.20 x 254.00 x 3.00	12.980 x 9.990 x .118	8 EXT
6830368	352704-388	Friction Clutch	FRICTION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
6830920	352702-520	Friction Clutch	FRICTION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
6837565	352704-388	Friction Clutch	FRICTION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT

## ALLISON 5000,6000 Series

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23019152	352808	Overhaul Kit	OVERHAUL KIT			
29544490	352802	Overhaul Kit	OVERHAUL KIT			
6769326	352711-495	Steel Clutch	STEEL	386.94 x 322.78 x 4.95	15.234 x 12.708 x .195	30 EXT
6832138	352700A510	Friction Clutch	FRICTION BRONZE	433.50 X 371.73 X 5.33	17.067 X 14.635 X .210	89 INT
6832138	352700A510	Friction Clutch	FRICTION BRONZE	433.50 X 371.73 X 5.33	17.067 X 14.635 X .210	89 INT

## ALLISON 8000 Series

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23041615	352706-520	Friction Clutch	FRICTION	433.27 x 371.30 x 5.18	17.058 x 14.618 x .204	89 INT
23041616	352702-520	Friction Clutch	FRICTION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
23048195	352700A510	Friction Clutch	FRICTION BRONZE	433.50 X 371.73 X 5.33	17.067 X 14.635 X .210	89 INT
29544490	352802	Overhaul Kit	OVERHAUL KIT			

# ALTO HEAVY DUTY CATALOG

## ALLISON 8000 Series

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6776610	352711-300	Steel Clutch	STEEL	386.94 x 322.78 x 3.00	15.234 x 12.708 x .118	30 EXT
6777796	352713-500	Steel Clutch	STEEL CLBT58, 59, 60 TRANSMISSION CLUTCH	450.30 x 389.40 x 5.00	17.710 x 15.310 x .197	35 EXT

## ALLISON CLT 3340-3461

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6830950	352710-385	Friction Clutch	FRICITION BRONZE Mating plate to 178721 Steel	200.00 x 144.80 x 3.90	7.860 x 5.690 x .153	59 INT

## ALLISON CRT 3321-3630

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6768446	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
6837690	352701	Steel Clutch	STEEL	274.32 x 202.49 x 2.72	10.800 x 7.972 x .107	6 EXT

## ALLISON CRT 5633

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23048511	056712	Friction Clutch	FRICITION	371.70 x 302.95 x 5.23	14.634 x 11.927 x .206	73 INT
6776610	352711-300	Steel Clutch	STEEL	386.94 x 322.78 x 3.00	15.234 x 12.708 x .118	30 EXT
6884505	352810	Overhaul Kit	OVERHAUL KIT			

## ALLISON DP - 58,59,60 SERIES

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23041616	352702-520	Friction Clutch	FRICITION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
23048195	352700A510	Friction Clutch	FRICITION BRONZE	433.50 X 371.73 X 5.33	17.067 X 14.635 X .210	89 INT
6769326	352711-495	Steel Clutch	STEEL	386.94 x 322.78 x 4.95	15.234 x 12.708 x .195	30 EXT
6776610	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
6777796	352713-500	Steel Clutch	STEEL CLBT58, 59, 60 TRANSMISSION CLUTCH	450.30 x 389.40 x 5.00	17.710 x 15.310 x .197	35 EXT

## ALLISON HT 70-CLBT 4460

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6758737	179763-500	Steel Clutch	STEEL CLBT-4460	311.15 X 234.95 X 5.05	12.25 X 9.25 X .199	8 EXT

## ALLISON OVERHAUL KITS

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23012606	352800	Overhaul Kit	OVERHAUL KIT CLBT 700 SERIES			
23019152	352808	Overhaul Kit	OVERHAUL KIT CLBT 5000 SERIES			
29544490	352802	Overhaul Kit	OVERHAUL KIT CLBT 5000/6000 SERIES			
6838897	352812	Overhaul Kit	OVERHAUL KIT TT2000/3000/4000			
6884505	352810	Overhaul Kit	OVERHAUL KIT CRT-5563 SERIES			

## ALLISON TT2000/3000/4000

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23010122	352704A388	Friction Clutch	FRICITION HEG WF (9 Per Unit)	253.52 x 187.71 x 3.91	9.981 x 7.390 x .154	60 INT

# ALTO HEAVY DUTY CATALOG

## ALLISON TT2000/3000/4000

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
23010871	352712BR390	Friction Clutch	FRICITION BRONZE HI-RANGE TRANSFER (2 per Unit)	254.00 X 74.50 X 3.90	10.000 X 2.933 X .154	6 INT
23017289	317721-300	Steel Clutch	STEEL	330.20 x 254.00 x 3.00	12.980 x 9.990 x .118	8 EXT
6775541	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
6837690	352701	Steel Clutch	STEEL	274.32 x 202.49 x 2.72	10.800 x 7.972 x .107	6 EXT
6838897	352812	Overhaul Kit	OVERHAUL KIT			

## BOBCAT

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6502424	179706-327	Friction Clutch	FRICITION (NO TEETH) TAN PLI	190.50 x 136.91 x 3.25	7.500 x 5.390 x .128	
6649871	179706-327	Friction Clutch	FRICITION (NO TEETH) TAN PLI	190.50 x 136.91 x 3.25	7.500 x 5.390 x .128	

## BORG WARNER T-22

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	023738A	Friction Clutch	FRICITION HEG PLI	190.19 x 146.76 x 2.92	7.488 x 5.778 x .115	59 INT
10-08-166-001	308703	Steel Clutch	STEEL	205.49 x 145.42 x 3.53	8.090 x 5.725 x .139	43 EXT
10-08-666-001	308700A	Friction Clutch	FRICITION BRONZE	196.60 x 138.20 x 2.79	7.730 x 5.430 x .110	44 INT
10-08-666-004	308700	Friction Clutch	FRICITION HEG	197.03 x 138.30 x 2.79	7.757 x 5.445 x .110	44 INT
10-17-666-001	023738	Friction Clutch	FRICITION HEG PLI	190.19 x 146.76 x 2.92	7.488 x 5.778 x .115	59 INT
1021-166-001	023701-140	Steel Clutch	SELECTIVE STEEL	138.99 x 99.01 x 1.40	5.472 x 3.898 x .055	54 EXT
1021-166-001	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
1021-666-002	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
1021-666-003	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
1021-666-005	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
22-176	308701	Steel Clutch	STEEL	205.59 x 145.47 x 1.65	8.094 x 5.727 x .065	64 EXT
72-A66	023738BR155	Steel Clutch	FRICITION BRONZE	190.61 x 147.17 x 1.57	7.504 x 5.794 x 0.062	59 INT
AT-220-66	308700A	Friction Clutch	FRICITION BRONZE	196.60 x 138.20 x 2.79	7.730 x 5.430 x .110	44 INT
W-1597A	049722	Friction Clutch	FRICITION	133.35 x 92.79 x 1.55	5.250 x 3.653 x 0.061	45 INT

## BRODERSON

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	023701	Steel Clutch	STEEL (SMALL)	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
910700148	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
910700163	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
910700164	023739	Steel Clutch	STEEL LARGE	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT

## CARRARO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
136155	303701-500	Steel Clutch	STEEL	229.87 x 152.40 x 5.00	9.050 x 6.000 x .197	64 EXT
143874	303700-490	Friction Clutch	FRICITION	223.01 x 70.86 x 4.90	8.780 x 2.790 x .193	36 INT

## CATERPILLAR

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1221880	310726A250	Friction Clutch	FRICITION HEG WF	127.25 x 82.19 x 2.54	5.010 x 3.236 x .100	40 INT
1221881	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
230-4017	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT
2G-9909	308717-190	Steel Clutch	STEEL	322.80 x 226.60 x 1.90	12.690 x 8.910 x .075	100 EXT
2H-6936	308709-230	Friction Clutch	STEEL	288.21 x 194.56 x 2.29	11.347 x 7.660 x .090	8 INT
2P-3719	308714-290	Friction Clutch	FRICITION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT

# ALTO HEAVY DUTY CATALOG

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
3L-8440	332706	Friction Clutch	FRICTION BRONZE MG-514 ALL MODELS	236.04 x 139.67 x 3.10	9.293 x 5.400 x .122	12 EXT
3P-0805	308714-290	Friction Clutch	FRICTION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT
3P-5955	308702-500	Friction Clutch	FRICTION BRONZE	311.20 x 252.50 x 5.00	12.240 x 9.930 x .197	101 INT
3T-2567	308703	Steel Clutch	STEEL	205.49 x 145.42 x 3.53	8.090 x 5.725 x .139	43 EXT
3T-3400	308700	Friction Clutch	FRICTION HEG	197.03 x 138.30 x 2.79	7.757 x 5.445 x .110	44 INT
3T-9293	332702	Friction Clutch	FRICTION BRONZE	112.14 x 71.30 x 2.16	4.415 x 2.807 x .085	68 EXT
5D-8526	308723	Steel Clutch	STEEL	113.67 x 86.06 x .81	4.475 x 3.388 x .032	44 EXT
5K-8617	308728	Steel Clutch	FRICTION	304.80 x 212.90 x 3.80	11.990 x 8.370 x .149	95 EXT
5N-6137	332709	Steel Clutch	STEEL STEPPED MG-514A, MG-514B LATE & MG-514C	203.70 x 123.11 x 4.72	7.995 x 4.847 x .186	40 INT
6I-8912	308742-400	Friction Clutch	FRICTION			52 INT
6L-9719	332703	Steel Clutch	STEEL	101.60 x 64.69 x 1.59	4.000 x 2.547 x .063	42 INT
6T-5099	023712-180	Friction Clutch	FRICTION HEG PL	148.50 x 107.72 x 1.78	5.850 x 4.241 x .070	52 INT
6T-6277	053701	Steel Clutch	STEEL	107.82 x 76.17 x 1.80	4.245 x 2.999 x .071	24 EXT
6T-6283	053700	Friction Clutch	FRICTION HEG SMOOTH	99.850 x 68.17 x 1.55	3.931 x 2.684 x .061	34 INT
6T-6432	053702	Friction Clutch	FRICTION TAN PL	142.98 x 110.08 x 1.55	5.629 x 4.334 x .061	24 INT
6T-6481	053703	Steel Clutch	STEEL	156.03 x 119.13 x 1.80	6.143 x 4.690 x .071	12 EXT
6T-8686	308714-290	Friction Clutch	FRICTION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT
6T-9456	023719-310	Steel Clutch	STEEL	154.10 x 114.05 x 3.10	6.067 x 4.490 x .122	60 EXT
6T-9462	023722-180	Friction Clutch	FRICTION HEG WF	148.59 x 101.70 x 1.80	5.850 x 4.240 x .071	52 INT
6Y-5352	308746-500	Friction Clutch	FRICTION PLI			61 INT
6Y-5911	308716-550	Friction Clutch	FRICTION	345.10 x 271.00 x 5.50	13.570 x 10.660 x .216	75 INT
6Y-7914	308728	Steel Clutch	FRICTION	304.80 x 212.90 x 3.80	11.990 x 8.370 x .149	95 EXT
6Y-7915	308710-280	Friction Clutch	FRICTION	255.60 x 168.40 x 2.80	10.050 x 6.620 x .110	54 INT
6Y-7916	308712-350	Friction Clutch	FRICTION	306.00 x 198.60 x 3.50	12.030 x 7.810 x .138	64 INT
6Y-7929	049700-216	Friction Clutch	FRICTION TAN PL	133.35 x 92.79 x 2.16	5.250 x 3.653 x .085	45 INT
6Y-7933	023712-180	Friction Clutch	FRICTION HEG PL	148.50 x 107.72 x 1.78	5.850 x 4.241 x .070	52 INT
6Y-7935	308714-290	Friction Clutch	FRICTION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT
6Y-7950	308708-460	Friction Clutch	FRICTION TAN PLI	215.87 x 135.08 x 4.57	8.499 x 5.318 x .180	54 INT
6Y-7953	308740-290	Friction Clutch	FRICTION			74 INT
6Y-7962	308722	Friction Clutch	FRICTION TAN	105.84 x 43.43 x 2.54	4.167 x 1.710 x .100	18 INT
6Y-7965	308714-290	Friction Clutch	FRICTION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT
6Y-7981	308744-432	Friction Clutch	FRICTION			32 EXT
7D-3012	329701A250	Steel Clutch	STEEL SPACER	740.13 x 539.88 x 2.41	29.14 x 21.25 x .095	144 EXT
7D-3013	329702B690	Friction Clutch	FRICTION CORK	740.26 x 539.75 x 6.90	29.140 x 21.250 x .272	144 INT
7D-3014	329700B520	Friction Clutch	FRICTION BRAKE	715.01 x 510.54 x 5.16	28.15 x 20.13 x .203	102 INT
7D-8434	308717-190	Steel Clutch	STEEL	322.80 x 226.60 x 1.90	12.690 x 8.910 x .075	100 EXT
7G-0437	308741-318	Steel Clutch	STEEL			6 EXT
7G-5377	023719-310	Steel Clutch	STEEL	154.10 x 114.05 x 3.10	6.067 x 4.490 x .122	60 EXT
7G-8107	308700A	Friction Clutch	FRICTION BRONZE	196.60 x 138.20 x 2.79	7.730 x 5.430 x .110	44 INT
7G-8542	049702	Friction Clutch	FRICTION TAN PL	133.35 x 92.79 x 2.03	5.250 x 3.653 x .080	45 INT
7L-7782	332704	Friction Clutch	FRICTION BRONZE	164.24 x 103.81 x 2.87	6.466 x 4.087 x .113	76 EXT
8D-8794	308715-150	Steel Clutch	STEEL	276.90 x 187.50 x 1.50	10.890 x 7.370 x .059	86 EXT
8E-8832	023722-180	Friction Clutch	FRICTION HEG WF	148.59 x 101.70 x 1.80	5.850 x 4.240 x .071	52 INT
8P-8682	308714-290	Friction Clutch	FRICTION	215.80 x 168.50 x 2.90	8.490 x 6.630 x .114	54 INT
9G-8542	049702	Friction Clutch	FRICTION TAN PL	133.35 x 92.79 x 2.03	5.250 x 3.653 x .080	45 INT
9P-7390	308716-550	Friction Clutch	FRICTION	345.10 x 271.00 x 5.50	13.570 x 10.660 x .216	75 INT
9R-9401	308729-450	Steel Clutch	STEEL (1 rounded notch)	238.05 X 126.67 X 4.500	9.372 X 4.987 X .177	
9W-1735	049700-216	Friction Clutch	FRICTION TAN WF	133.35 x 92.79 x 2.16	5.250 x 3.653 x .085	45 INT

# ALTO HEAVY DUTY CATALOG

## CATERPILLAR

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
9W-1735	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
9W-4954	023712-295	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.95	5.850 x 4.241 x .116	52 INT
9W-7017	329700-520	Friction Clutch	FRICITION	715.01 x 510.54 x 5.16	28.15 x 20.13 x .203	99 INT
9W-8901	023712A170	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 1.70	5.850 x 4.241 x .067	52 INT
9Y-7929	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT

## CHAMPION GRADER (GEARCO)

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
11299	306709-155	Steel Clutch	STEEL INPUT & REVERSE	142.62 x 99.14 x 1.55	5.615 x 3.903 x .061	8 EXT
11300	049700A150	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 1.50	5.250 x 3.653 x .059	45 INT
16780N	307709-340	Steel Clutch	STEEL	323.30 x 184.3 x 3.40	12.710 x 7.250 x .134	8 EXT
19435	317712-250	Friction Clutch	FRICITION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT
28305	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
28310	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
37170	307704-500	Friction Clutch	FRICITION HEG PLI	342.77 x 220.5 x 5.21	13.495 x 8.681 x .205	53 INT
37171	307705-630	Steel Clutch	STEEL	355.04 x 238.38 x 6.30	13.978 x 9.385 x .248	83 EXT
37171X	307705-343	Steel Clutch	STEEL	355.04 x 238.38 x 3.43	13.978 x 9.385 x .135	83 EXT
37934	307706-350	Friction Clutch	FRICITION HEG PLI	358.93 x 226.87 x 3.51	14.130 x 8.932 x .138	54 INT
37935	307707-300	Steel Clutch	STEEL	378.46 x 254.00 x 3.10	14.900 x 10.000 x .122	89 EXT
41112	307703-210	Steel Clutch	STEEL OUTPUT (18 PER UNIT)	180.21 x 129.57 x 2.11	7.095 x 5.101 x .083	8 EXT
48525N	307708-520	Friction Clutch	FRICITION	279.90 x 117.70 x 5.30	11.010 x 4.630 x .208	35 INT
49987	307705-630	Steel Clutch	STEEL	355.04 x 238.38 x 6.30	13.978 x 9.385 x .248	83 EXT
49987X	307705-343	Steel Clutch	STEEL	355.04 x 238.38 x 3.43	13.978 x 9.385 x .135	83 EXT
53951	307702-250	Friction Clutch	FRICITION BRONZE	168.58 x 119.43 x 2.54	6.637 x 4.702 x .100	29 INT
D72803	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT

## CLARK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
208772	310716	Friction Clutch	FRICITION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
209087	310703	Steel Clutch	STEEL	160.63 x 103.30 x 1.50	6.324 x 4.067 x .059	42 EXT
209928	310716	Friction Clutch	FRICITION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
215178	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
215296	318701	Steel Clutch	STEEL	191.50 x 117.50 x 2.10	7.530 x 4.620 x .083	28 EXT
216050	310724	Friction Clutch	FRICITION BRONZE	205.16 x 117.27 x 3.96	8.077 x 4.617 x .156	34 INT
216084	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
216677	310716	Friction Clutch	FRICITION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
219393	310703	Steel Clutch	STEEL	160.63 x 103.30 x 1.50	6.324 x 4.067 x .059	42 EXT
222605	310703	Steel Clutch	STEEL	160.63 x 103.30 x 1.50	6.324 x 4.067 x .059	42 EXT
224246	310701	Steel Clutch	STEEL	162.03 x 115.93 x 1.70	6.379 x 4.564 x .067	4 EXT
224772	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
228114	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
230911	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
232285	310713	Steel Clutch	STEEL	257.20 x 190.50 x 2.70	10.110 x 7.490 x .106	14 EXT
232394	310715	Steel Clutch	STEEL	218.97 x 158.93 x 2.73	8.621 x 6.257 x .108	14 EXT
232780	310718	Friction Clutch	FRICITION GRAPHITE	292.40 x 206.80 x 4.00	11.500 x 8.130 x .157	60 INT
233166	023712-260	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.59	5.850 x 4.241 x .102	52 INT
233166	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
234108	049740-230	Friction Clutch	FRICITION RED PL	133.35 x 92.79 x 2.31	5.250 x 3.653 x .091	45 INT
234336	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
234727	023712-260	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.59	5.850 x 4.241 x .102	52 INT

# ALTO HEAVY DUTY CATALOG

## CLARK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
234727	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
235161	023712-260	Friction Clutch	FRICTION TAN PL	148.50 x 107.72 x 2.59	5.850 x 4.241 x .102	52 INT
235161	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
237016	049700BR235	Friction Clutch	FRICTION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
238260	310719	Steel Clutch	STEEL	257.05 x 190.83 x 2.59	10.120 x 7.513 x .102	12 EXT
238313	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
238609	023712-295	Friction Clutch	FRICTION TAN PL	148.50 x 107.72 x 2.95	5.850 x 4.241 x .116	52 INT
242530	049700BR235	Friction Clutch	FRICTION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
242717	310723	Steel Clutch	STEEL	228.19 x 159.00 x 2.64	8.984 x 6.260 x .104	35 EXT
243691	310721-180	Steel Clutch	STEEL	182.88 x 118.21 x 1.75	7.200 x 4.654 x .069	71 EXT
243767	310725	Steel Clutch	STEEL 16 HOLES	355.57 x 319.92 x 4.65	13.999 x 12.359 x .183	
244134	310728-215	Friction Clutch	FRICTION	117.58 x 68.28 x 2.16	4.629 x 2.688 x .085	33 INT
244979	310722	Friction Clutch	FRICTION HEG WF	175.77 x 107.59 x 2.90	6.920 x 4.236 x .114	52 INT
244980	310721-180	Steel Clutch	STEEL	182.88 x 118.21 x 1.75	7.200 x 4.654 x .069	71 EXT
245238	310729-150	Steel Clutch	STEEL	129.16 x 76.00 x 1.52	5.085 x 2.992 x .060	4 EXT
245239	310728-215	Friction Clutch	FRICTION BRONZE	117.58 x 68.28 x 2.16	4.629 x 2.688 x .085	33 INT
245741	049740-230	Friction Clutch	FRICTION RED PL	133.35 x 92.79 x 2.31	5.250 x 3.653 x .091	45 INT
246744	310728-215	Friction Clutch	FRICTION BRONZE	117.58 x 68.28 x 2.16	4.629 x 2.688 x .085	33 INT
247273	310721-180	Steel Clutch	STEEL	182.88 x 118.21 x 1.75	7.200 x 4.654 x .069	71 EXT
247274	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
2787359	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
2787368	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
2794675	310726-270	Friction Clutch	FRICTION TAN WF	127.25 x 82.19 x 2.69	5.010 x 3.236 x .106	40 INT
2810118	023712A295	Friction Clutch	FRICTION HEG WF	148.5 x 107.72 x 2.95	5.850 x 4.241 x .116	52 INT
2812288	310701A228	Steel Clutch	STEEL	155.55 x 116.00 x 2.29	6.124 x 4.567 x .090	4 EXT
291580A1	310731-198	Steel Clutch	STEEL	128.60 x 92.79 x 1.98	5.063 x 3.653 x .078	45 INT
3734356	023712BR260	Friction Clutch	FRICTION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
878364	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
878373	049700BR	Friction Clutch	FRICTION BRONZE	128.6 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
878374	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
887983	023738BR	Friction Clutch	FRICTION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
887984	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
888027	049700BR	Friction Clutch	FRICTION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
907566	049720-200	Friction Clutch	FRICTION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
907567	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
927619	310734-236	Friction Clutch	FRICTION HEG	134.11 x 87.88 x 2.36	5.280 x 3.460 x .093	36 EXT
927620	310733-200	Steel Clutch	STEEL	152.40 x 95.00 x 2.01	6.000 x 3.740 x .079	6 EXT
999736	026736	Friction Clutch	FRICTION HEG PLI	61.59 x 125.27 x 1.91	6.362 x 4.932 x .075	90 INT

## DAMPER ASSEMBLIES

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH
105890	DA-504	Damper Assemblies	DAMPER CARRIER PLATE	330.20 x 63.68 x 2.08	13.000 x 2.507 x .082
106083	DA-505	Damper Assemblies	DAMPER CARRIER PLATE	301.37 x 63.68 x 1.63	11.865 x 2.507 x .064
1060836	DA-506	Damper Assemblies	DAMPER CARRIER PLATE	301.32 x 63.68 x 1.57	11.836 x 2.507 x .062
115456	DA-504	Damper Assemblies	DAMPER CARRIER PLATE	330.20 x 63.68 x 2.08	13.000 x 2.507 x .082
N115485	DA-502	Damper Assemblies	DAMPER CARRIER PLATE	352.27 x 63.68 x 2.18	13.869 x 2.507 x .086

# ALTO HEAVY DUTY CATALOG

## DAMPER ASSEMBLIES

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH
N115495	DA-503	Damper Assemblies	DAMPER CARRIER PLATE	301.70 x 51.26 x 1.63	11.878 x 2.018 x .064
UCL10107-14	DA-501	Damper Assemblies	DAMPER CARRIER PLATE	301.70 x 51.26 x 1.57	11.878 x 2.018 x .062
UCL11911-146	DA-506	Damper Assemblies	DAMPER CARRIER PLATE	301.32 x 63.68 x 1.57	11.836 x 2.507 x .062
UCL11911-19	DA-505	Damper Assemblies	DAMPER CARRIER PLATE	301.37 x 63.68 x 1.63	11.865 x 2.507 x .064

## DANA SPICER

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
224772	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
238609	023712-295	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.95	5.850 x 4.241 x .116	52 INT
727429	328705-267	Steel Clutch	STEEL 1 EXTERNAL NOTCH	162.97 x 79.98 x 2.67	6.416 x 3.149 x .105	1 EXT
727443	328704-488	Friction Clutch	FRICITION AXLE BRAKE HEG PLI with 8 Holes	143.10 x 34.11 x 4.88	5.634 x 1.343 x .192	19 INT
8033096	328750	Friction Steel Module	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701			
CKC-66409	049700-216	Friction Clutch	FRICITION TAN WF	133.35 x 92.79 x 2.16	5.250 x 3.653 x .085	45 INT
CKC-68632	310726A250	Friction Clutch	FRICITION HEG WF	127.25 x 82.19 x 2.54	5.010 x 3.236 x .100	40 INT
CKC-68633	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
D50083	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
D70672	049722A155	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
P20602	023712-180	Friction Clutch	FRICITION HEG PL	148.50 x 107.72 x 1.78	5.850 x 4.241 x .070	52 INT
R30WA109	328701	Steel Clutch	STEEL	200.10 x 102.10 x 6.10	7.870 x 4.010 x .087	61 EXT
R30WA120	328700	Friction Clutch	FRICITION BRONZE	177.62 x 69.42 x 3.81	6.993 x 2.733 x .150	23 INT

## DOOSAN

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
DO222200012	306732-485	Friction Clutch	FRICITION BRAKE PLATE	201.17 x 40.36 x 4.88	7.920 x 1.589 x .192	16 INT
DO222200013	306731-266	Steel Clutch	STEEL BRAKE PLATE	19.61 x 145.77 x 2.67	8.464 x 5.739 x .105	6 EXT

## EATON FULLER / CEEMAT

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
22450	353706-340	Friction Clutch	FRICITION TAN WF - CONVERTER CLUTCH LARGE	386.18 x 311.53 x 3.38	15.204 x 12.265 x .133	99 INT
224546	353704-410	Friction Clutch	FRICITION TAN PLNI- CONVERTER CLUTCH SMALL	260.55 x 206.50 x 4.14	10.258 x 9.130 x .163	66 INT
22466	353705-310	Steel Clutch	STEEL - CONVERTER CLUTCH SMALL	278.10 x 214.83 x 3.15	10.949 x 8.428 x .124	66 EXT
4303471	353707-310	Steel Clutch	STEEL - CONVERTER CLUTCH LARGE (NOTCHED OD)	451.92 x 322.30 x 3.12	17.792 x 12.689 x .123	32 EXT

## EUCLID

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
E4059008	310712	Friction Clutch	FRICITION CARBONITE	646.94 x 431.55 x 5.28	25.470 x 16.990 x .208	52 INT
E4095205	310715	Steel Clutch	STEEL	218.97 x 158.93 x 2.73	8.621 x 6.257 x .108	14 EXT



# ALTO HEAVY DUTY CATALOG

## EXEDY

Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
354701-270	Steel Clutch	STEEL	263.78 x 200.05 x 2.69	10.385 x 7.876 x .106	6 EXT

## FIAT - ALLIS

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
508053	330717-150	Steel Clutch	STEEL	151.94 x 81.69 x 1.52	5.982 x 3.216 x .060	40 INT
70629863	317712-250	Friction Clutch	FRICITION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT
70675510	317712-250	Friction Clutch	FRICITION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT
71010964	317702-360	Friction Clutch	FRICITION BRONZE	250.57 x 124.08 x 3.63	9.865 x 4.885 x .143	25 INT
73021191	352701	Steel Clutch	STEEL	274.32 x 202.49 x 2.72	10.800 x 7.972 x .107	6 EXT
73021215	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
73044593	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
73058782	352701	Steel Clutch	STEEL	274.32 x 202.49 x 2.72	10.800 x 7.972 x .107	6 EXT
73118088	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
73118089	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
73118133	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
9433405	332702	Friction Clutch	FRICITION BRONZE	112.14 x 71.30 x 2.16	4.415 x 2.807 x .085	68 EXT
9435217	332703	Steel Clutch	STEEL	101.60 x 64.69 x 1.59	4.000 x 2.547 x .063	42 INT
9502757	023719	Steel Clutch	STEEL	154.1 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
98529646	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
13474AM	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
148963A1	306731-266	Steel Clutch	STEEL BRAKE PLATE	19.61 x 145.77 x 2.67	8.464 x 5.739 x .105	6 EXT
1804831	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
1808604	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
1816970	311702	Friction Clutch	FRICITION PTO BRONZE	133.35 x 92.79 x 2.03	5.250 x 3.653 x .080	45 INT
5119327	311723	Steel Clutch	STEEL			
71102762	306732-485	Friction Clutch	FRICITION BRAKE PLATE	201.17 x 40.36 x 4.88	7.920 x 1.589 x .192	16 INT
83959970	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT
86962386	311720-244	Friction Clutch	FRICITION 555C / 555D BRONZE	133.40 x 90.30 x 2.44	5.252 x 3.555 x .096	36 INT
86964288	311720-260	Friction Clutch	FRICITION 555C / 555D BRONZE	133.40 x 90.30 x 2.59	5.252 x 3.555 x .102	36 INT
87313939	311722	Friction Clutch	FRICITION BRAKE			
9968289	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
B5AZ-7B164A	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
B85-77573	023719	Steel Clutch	STEEL FRONT	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
C5NN-2A097B	311710A	Friction Clutch	FRICITION BRAKE BRONZE - EARLY STYLE	204.50 x 53.52 x 4.88	8.051 x 2.107 x .192	22 INT
C5NN-2N315A	311713	Steel Clutch	STEEL BRAKE 1 LUG	228.17 x 147.32 x 2.64	8.983 x 5.800 x .104	
C5NN-2N315B	311711	Steel Clutch	STEEL BRAKE 1 LUG	209.32 x 114.30 x 2.62	8.241 x 4.500 x .103	1 EXT
C5NN-P743B	311702	Friction Clutch	FRICITION PTO BRONZE	133.35 x 92.79 x 2.03	5.250 x 3.653 x .080	45 INT
C7NN-2A097B	311712	Friction Clutch	FRICITION BRAKE BRONZE 5 SLOTS	223.77 x 53.52 x 3.10	8.810 x 2.107 x .122	22 INT
C8AP-7B442A	023701	Steel Clutch	STEEL FRONT	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
C8AP-7B442A	023701	Steel Clutch	STEEL PTO	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
C9NN-2A097BA	311712	Friction Clutch	FRICITION BRAKE BRONZE 5 SLOTS	223.77 x 53.52 x 3.10	8.810 x 2.107 x .122	22 INT
C9NN-P743A	023712-230	Friction Clutch	FRICITION PTO TAN WF	148.5 x 107.72 x 2.29	5.850 x 4.241 x .090	52 INT

# ALTO HEAVY DUTY CATALOG

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
C9NN-P743B	311702	Friction Clutch	FRICITION PTO BRONZE	133.35 x 92.79 x 2.03	5.250 x 3.653 x .080	45 INT
C9NN-P743D	311700A	Friction Clutch	FRICITION PTO BRONZE	148.56 x 107.72 x 2.29	5.849 x 4.241 x .0895	52 INT
CONN-7B164A	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
D0AP-N5861	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
D1NN-P743A	023712-230	Friction Clutch	FRICITION PTO TAN WF	148.50 x 107.72 x 2.29	5.850 x 4.241 x .090	52 INT
D2NN-7R174A	023719	Steel Clutch	STEEL FRONT	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
D3NN-P743A	311700	Friction Clutch	FRICITION PTO BRONZE	148.56 x 107.72 x 2.29	5.849 x 4.241 x .090	52 INT
D6NN-C730A	023719	Steel Clutch	STEEL FRONT	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
D6NN-C730A	023719	Steel Clutch	STEEL PTO	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
D8NN-P743JA	023712-230	Friction Clutch	FRICITION PTO TAN WF	148.50 x 107.72 x 2.29	5.850 x 4.241 x .090	52 INT
E6NN-2A097BB	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT
E6NN-2A097EE	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT
E6NN-2N315AA	311713	Steel Clutch	STEEL BRAKE 1 LUG	228.17 x 147.32 x 2.64	8.983 x 5.800 x .104	
E9NN-2A097AA	311710	Friction Clutch	FRICITION BRAKE BRONZE - LATE STYLE	204.72 x 53.52 x 3.10	8.060 x 2.107 x .122	22 INT
E9NN-2A097BA	311712	Friction Clutch	FRICITION BRAKE BRONZE 5 SLOTS	223.77 x 53.52 x 3.10	8.810 x 2.107 x .122	22 INT
IP-77518A	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
IP-77573A-1	023701	Steel Clutch	STEEL FRONT	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
PBB-77519A	023712BR	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 1.52	5.850 x 4.241 x .060	52 INT
PBB-77573A	023719	Steel Clutch	STEEL FRONT	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
PBB-77573A	023719	Steel Clutch	STEEL PTO	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT

## FORD TRACTOR

Alto Number	Part Type	Comment
91900	Rebuilding Kit	Contains: Clutch Cover, Clutch Disc, Release Bearing, Pilot Bearing, Alignment Tool FORD TRACTOR 8N, 9N, 2N, NAA, 600, 700, 800, 900

## FUJI

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
S2080S00F	306739-240	Steel Clutch	STEEL	176.89 x 129.92 x 2.40	6.964 x 5.115 x .095	52 INT
S2090S00F	306739-210	Steel Clutch	STEEL	176.89 x 129.92 x 2.11	6.964 x 5.115 x .083	52 INT
S4070S00F	306735-240	Steel Clutch	STEEL	203.35 x 140.34 x 2.41	8.006 x 5.525 x .095	56 INT
S4110S00F	306735-210	Steel Clutch	STEEL	203.35 x 140.34 x 2.11	8.006 x 5.525 x .083	56 INT
S5120S00F	306737-262	Steel Clutch	STEEL	228.50 x 155.50 x 2.62	8.996 x 6.122 x .103	62 INT
S5130S00F	306737-240	Steel Clutch	STEEL	228.50 x 155.50 x 2.40	8.996 x 6.122 x .095	62 INT

## FUNK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	314701-190	Steel Clutch	STEEL	177.09 x 131.90 x 1.93	6.972 x 5.193 x .076	69 EXT
4002254	023719-310	Steel Clutch	STEEL	154.10 x 114.05 x 3.10	6.067 x 4.490 x .122	60 EXT
4002787	023712A170	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 1.70	5.850 x 4.241 x .067	52 INT
4005522	023722-180	Friction Clutch	FRICITION HEG WF	148.59 x 101.70 x 1.80	5.850 x 4.240 x .071	52 INT
4005523	023712-295	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.95	5.850 x 4.241 x .116	52 INT
4005524	049700-180	Friction Clutch	FRICITION TAN PL	133.35 x 92.79 x 1.80	5.250 x 3.653 x .071	45 INT
4010556	029701	Steel Clutch	STEEL	113.49 x 79.60 x 1.73	4.468 x 3.134 x .068	44 EXT
4010595	029712BR	Friction Clutch	FRICITION BRONZE	107.87 x 73.76 x 1.57	4.247 x 2.904 x .062	36 INT
40121315	023712A170	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 1.70	5.850 x 4.241 x .067	52 INT

# ALTO HEAVY DUTY CATALOG

## FUNK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
40121323	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
40121323	079741	Steel Clutch	STEEL - OE STYLE	154.23 x 113.87 x 1.75	6.072 x 4.483 x .069	60 EXT
4050498	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
40RC-7683	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
40RC-7727	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
40RC-7951	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
40RC-7951	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
4TRC-7173	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
4TRC-7174	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
YZ102-938	079743	Steel Clutch	STEEL	177.11 x 139.16 x 1.90	6.973 x 5.497 x .075	69 EXT
YZ103-269	314700	Friction Clutch	FRICITION BRONZE	169.70 x 124.70 x 3.20	6.670 x 4.900 x .126	60 INT
YZ105-493	079744-275	Friction Clutch	FRICITION HEG PLI	169.60 x 107.29 x 2.79	6.677 x 4.224 x .110	52 INT
YZ106-060	314700A280	Friction Clutch	FRICITION TAN PLI	169.67 x 124.69 x 2.79	6.680 x 4.909 x .110	60 INT
YZ501-1026	079749	Steel Clutch	STEEL	211.92 x 148.00 x 1.90	8.343 x 5.827 x .075	66 EXT
YZ501-539	079749	Steel Clutch	STEEL	211.92 x 148.00 x 1.90	8.343 x 5.827 x .075	66 EXT
YZ502-309	079749	Steel Clutch	STEEL	211.92 x 148.00 x 1.90	8.343 x 5.827 x .075	66 EXT
ZY105-481	023712-279	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.79	5.850 x 4.241 x .110	52 INT

## GALION

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
72327	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
72330	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
72372	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
72378	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
D139209	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
D72327	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
D72330	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
D72372	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
D72378	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
D80064	310716	Friction Clutch	FRICITION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT

## GIRLING

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
73320209	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT

## GROVE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
9904100634	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
9904101482	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
9904101483	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
9904101523	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
9904105541	049700	Friction Clutch	FRICITION TAN PL	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT

## HELI

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
11243-82151	330700A260	Friction Clutch	FRICITION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT

## HIDROMEK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
F06/13869	324701-385	Steel Clutch	STEEL	238.02 x 140.08 x 3.89	9.371 x 5.515 x .153	3 EXT
F06/13871	324700A385	Friction Clutch	FRICITION (8 HOLES) TAN PLNI	221.95 x 49.61 x 3.89	8.738 x 1.953 x .153	15 INT

# ALTO HEAVY DUTY CATALOG

## HYSTER

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
106375	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
109604	049720-200	Friction Clutch	FRICTION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
113486	318700	Friction Clutch	FRICTION BRONZE	169.14 x 78.44 x 3.29	6.659 x 3.088 x .130	20 INT
114254	318701	Steel Clutch	STEEL	191.50 x 117.50 x 2.10	7.530 x 4.620 x .083	28 EXT
119729	318700	Friction Clutch	FRICTION BRONZE	169.14 x 78.44 x 3.29	6.659 x 3.088 x .130	20 INT
119751	318701	Steel Clutch	STEEL	191.50 x 117.50 x 2.10	7.530 x 4.620 x .083	28 EXT
1311645	049740-230	Friction Clutch	FRICTION RED PL	133.35 x 92.79 x 2.31	5.250 x 3.653 x .091	45 INT
1311652	049700BR235	Friction Clutch	FRICTION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
1311662	049700BR235	Friction Clutch	FRICTION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
136083	049700BR	Friction Clutch	FRICTION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
1387235	023701-250	Steel Clutch	STEEL	138.99 x 99.01 x 2.50	5.472 x 3.898 x .098	54 EXT
1469300	049730-250	Friction Clutch	FRICTION ARAMID PLI	133.35 x 92.79 x 2.51	5.250 x 3.653 x .099	45 INT
148895	318700	Friction Clutch	FRICTION BRONZE	169.14 x 78.44 x 3.29	6.659 x 3.088 x .130	20 INT
319596	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
319596	023701A300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
334409	049700-216	Friction Clutch	FRICTION TAN PL	133.35 x 92.79 x 2.16	5.250 x 3.653 x .085	45 INT
334417	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
346796	049720-200	Friction Clutch	FRICTION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
449273	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
449461	049700BR235	Friction Clutch	FRICTION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
77808	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
77888	049700BR	Friction Clutch	FRICTION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
77898	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
878364	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT

## HYUNDAI

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
ZTAM00090	306732-485	Friction Clutch	FRICTION BRAKE PLATE	201.17 x 40.36 x 4.88	7.920 x 1.589 x .192	16 INT
ZTAM00219	306731-266	Steel Clutch	STEEL BRAKE PLATE	19.61 x 145.77 x 2.67	8.464 x 5.739 x .105	6 EXT

## INTERNATIONAL HARVESTER - HOUGH

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1342285C1	306702-467	Friction Clutch	FRICTION BRONZE	203.20 x 57.20 x 4.70	7.990 x 2.250 x .185	19 INT
157021H1	317712-250	Friction Clutch	FRICTION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT
40882D	319707-250	Steel Clutch	STEEL	398.07 x 304.93 x 2.49	15.672 x 12.005 x .098	77 EXT
634536C1	317712-250	Friction Clutch	FRICTION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural)

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
104712C21	351700	Friction Clutch	FRICTION BRAKE TAN PLI (6 PER UNIT)	203.20 x 47.09 x 4.65	8.000 x 1.854 x .183	12 INT
104713C21	351701	Steel Clutch	STEEL	249.56 x 125.37 x 2.29	9.825 x 4.936 x .090	3 EXT
1981246C1	351706	Friction Clutch	FRICTION PTO HEG PLI	133.83 x 95.63 x 1.91	5.269 x 3.765 x .075	24 EXT
313807R-1	352711-495	Steel Clutch	STEEL	386.94 x 322.78 x 4.95	15.234 x 12.708 x .195	30 EXT
380249R-3	351702	Friction Clutch	FRICTION TAN PLI TORQUE AMPLIFIER	146.15 x 63.68 x 3.94	5.745 x 2.507 x .155	26 INT
382342R1	351705-378	Steel Clutch	STEEL TORQUE AMPLIFIER	192.74 x 130.25 x 3.76	5.588 x 5.128 x .148	6 EXT
382343R	351704BR	Friction Clutch	FRICTION BRONZE TORQUE AMPLIFIER	167.39 x 117.12 x 2.90	6.590 x 4.611 x .114	47 INT

# ALTO HEAVY DUTY CATALOG

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural)

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
382344R1	351709-375	Steel Clutch	STEEL TORQUE AMPLIFIER LOCKUP	193.04 x 130.05 x 3.75	7.600 x 5.120 x .148	6 EXT
384430R-2	351703A	Steel Clutch	STEEL PISTON BACKING (1 PER UNIT)	174.63 x 85.73 x 2.54	6.875 x 3.375 x .100	12 EXT
384430R-2	351703A	Steel Clutch	STEEL PISTON BACKING (1 PER UNIT)	174.63 x 85.73 x 2.54	6.875 x 3.375 x .100	12 EXT
384431R-2	351703B	Steel Clutch	STEEL DRIVE (2 PER UNIT)	174.65 x 85.73 x 2.54	6.876 x 3.375 x .100	12 EXT
528696R-1	306379	Shaft	SHAFT IHC PTO fits Models: 756, 766, 856, 966, 986, 1066, 1086, 1456, 1466, 1486, 2856, 3088, 3288, 3688			
675667R1	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
702874C1	317712-250	Friction Clutch	FRICITION BRONZE	198.15 x 140.54 x 2.49	7.801 x 5.533 x .098	34 INT
A-175806	310727-225	Steel Clutch	STEEL (MATES WITH 351708)	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
A33012	351706BR	Friction Clutch	FRICITION PTO BRONZE	133.83 x 95.63 x 1.42	5.269 x 3.765 x .056	24 EXT
A59013	351767	Steel Clutch	SPRING PTO	86.08 x 76.96 x 1.27	3.389 x 3.030 x .050	
A66365	351707	Steel Clutch	STEEL PTO	126.90 x 69.85 x 1.12	4.996 x 2.750 x .044	17 INT
NL	351750X	Friction Steel Module	BRAKE KIT, WHEEL TYPE TRACTORS Contains: 6-351700, 7-351701, Orings & Metal clad seal Fits Models: 786, 886, 986, 1086, 1486, 3088, 3288, 3388, 3488, Hydro 3588, 3688, 3788, 6388. 6588. 6788 Hydro 186			

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural) PTO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	306300A	Piston	PISTON, PTO BRAKE ASSEMBLY HYDRAULIC TYPE			
	306670	Piston	PISTON KIT PTO (Contains 3 Pistons)			
	306935	Rebuilding Kit	REBUILDING KIT PTO with Pistons and Seal Kit (Tan clutches)			
	306935A	Rebuilding Kit	REBUILDING KIT PTO with Pistons and Seal Kit (Tan clutches)			
	306935AHD	Rebuilding Kit	REBUILDING KIT PTO Heavy Duty with Pistons and Seal Kit (Heg clutches)			
	306935AX	Rebuilding Kit	REBUILDING KIT PTO with Seal Kit (No Pistons) (Tan clutches)			

# ALTO HEAVY DUTY CATALOG

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural) PTO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	306935AXHD	Rebuilding Kit	REBUILDING KIT PTO Heavy Duty with Seal Kit (No Pistons) (Heg clutches)			
	306935X	Rebuilding Kit	REBUILDING KIT PTO with Seal Kit (No Pistons) (Tan clutches)			
381464	306300	Piston	PISTON, PTO BRAKE ASSEMBLY MECHANICAL TYPE			
381489R3	306701	Steel Clutch	STEEL PTO	146.05 x 103.30 x 1.73	5.750 x 4.067 x .068	6 EXT
381490R4	306704	Friction Clutch	FRICITION PTO TAN PLI	135.08 x 95.02 x 2.54	5.318 x 3.741 x .100	51 INT
381490R4D	306704A	Friction Clutch	FRICITION PTO HEG PLI	135.08 x 95.02 x 2.54	5.318 x 3.741 x .100	51 INT
68802C91	306750	Friction Steel Module	MODULE, FRICTION & STEEL PTO Contains: 5-306704, 12-306701			
68803C91	306750A	Friction Steel Module	MODULE, FRICTION & STEEL PTO Contains: 7-306704, 9-306701			
68803C91HD	306750AHD	Friction Steel Module	MODULE, FRICTION & STEEL PTO HEAVY DUTY Contains: 7-306704A, 9-306701			
77720C94	306835	Overhaul Kit	GASKET & SEAL KIT PTO W/PISTONS			
77720C94	306835X	Overhaul Kit	GASKET & SEAL KIT PTO WO/PISTONS			
77721	306835A	Overhaul Kit	GASKET & SEAL KIT PTO W/PISTONS			
77721S	306835AX	Overhaul Kit	GASKET & SEAL KIT PTO WO/PISTONS			
877721	306937AHD	Rebuilding Kit	REBUILDING KIT PTO Heavy Duty with Seal Kit (Heg clutches)			
877721S	306937AXHD	Rebuilding Kit	REBUILDING KIT PTO Heavy Duty with Seal Kit (No Pistons) (Heg clutches)			

## J.I. CASE / I.H.C. / DRESSER IND.

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
103310A1	023719	Steel Clutch	STEEL	154.1 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
1342285C1	306702-467	Friction Clutch	FRICITION BRONZE	203.20 x 57.20 x 4.70	7.990 x 2.250 x .185	19 INT
148962A1	306732-485	Friction Clutch	FRICITION BRAKE PLATE	201.17 x 40.36 x 4.88	7.920 x 1.589 x .192	16 INT
148963A1	306731-266	Steel Clutch	STEEL BRAKE PLATE	19.61 x 145.77 x 2.67	8.464 x 5.739 x .105	6 EXT
148963A1	306731-266	Steel Clutch	STEEL BRAKE PLATE	19.61 x 145.77 x 2.67	8.464 x 5.739 x .105	6 EXT
181159A1	306705-250	Steel Clutch	STEEL	150.95 x 98.76 x 2.50	5.943 x 3.888 x .098	6 EXT
1981314-C1	900-CP15	Friction Clutch	FRICITION RED SB - POWERSHIFT CLUTCH DISC (Partial Assembly-without Hub and Retainer)	301.75 x 63.45 x 1.98	11.880 x 2.498 x .078	

# ALTO HEAVY DUTY CATALOG

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1997959-C1	306726-284	Friction Clutch	FRICITION HEG WF	228.50 x 161.90 x 2.79	8.996 x 6.374 x .110	39 INT
324123R1	306722-280	Friction Clutch	FRICITION BRONZE	165.05 x 50.80 x 2.79	6.498 x 2.000 x .110	17 INT
324241R1X	306709	Steel Clutch	STEEL	142.62 x 99.14 x 1.60	5.615 x 3.903 x .063	8 EXT
324452R1	306721A308	Steel Clutch	STEEL (MATES WITH 306720A)	243.92 x 172.39 x 3.07	9.603 x 6.787 x .121	8 EXT
33-1518T2	306714-310	Friction Clutch	STEEL	189.23 x 141.53 x 3.10	7.45 x 5.572 x .122	88 EXT
381489R3	306701	Steel Clutch	STEEL	146.05 x 103.30 x 1.73	5.750 x 4.067 x .068	6 EXT
381489R-3X	306701B	Friction Clutch	FRICITION PTO - 1 SIDE	146.05 x 103.30 x 1.73	5.750 x 4.067 x .068	6 EXT
381490R-1HD	306704A	Friction Clutch	FRICITION PTO HEG PLI	135.08 x 95.02 x 2.54	5.318 x 3.741 x .100	51 INT
381490R-4	306704	Friction Clutch	FRICITION PTO TAN PLI	135.08 x 95.02 x 2.54	5.318 x 3.741 x .100	51 INT
381490R-4X	306704B	Friction Clutch	FRICITION PTO HEG PLI - 1 SIDE	135.08 x 95.02 x 2.54	5.318 x 3.741 x .100	51 INT
381-922-539C1	306711	Steel Clutch	STEEL	181.08 x 85.83 x 1.70	7.129 x 3.379 x .067	85 EXT
381-922-541C1	306710R	Friction Clutch	FRICITION RED WF	166.98 x 78.74 x 1.80	6.574 x 3.100 x .071	32 INT
381-922-549C1	306713	Steel Clutch	STEEL	181.08 x 112.78 x 1.70	7.129 x 4.440 x .067	85 EXT
381-922-551C1	306712R	Friction Clutch	FRICITION RED PLI	167.18 x 104.82 x 1.80	6.582 x 4.127 x .071	34 INT
381-922-913C1	320767	Steel Clutch	SPRING	180.00 x 173.40 x 0.35	7.080 x 6.820 x .014	
464-430-8328	329709-150	Steel Clutch	STEEL (Mates with 329708)	171.15 x 103.07 x 1.52	6.738 x 4.058 x .060	35 INT
5119327	311723	Steel Clutch	STEEL			
51193327	311723	Steel Clutch	STEEL			
615559C1	352704-388	Friction Clutch	FRICITION BRONZE	253.59 x 187.81 x 3.91	9.984 x 7.394 x .154	60 INT
615911C1	352702-520	Friction Clutch	FRICITION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
619200C	306720A	Friction Clutch	FRICITION BRONZE	228.70 x 161.85 x 2.84	9.004 x 6.372 x .112	39 INT
627306C1	306722-280	Friction Clutch	FRICITION BRONZE	165.05 x 50.80 x 2.79	6.498 x 2.000 x .110	17 INT
630516C2	023719	Steel Clutch	STEEL	154.1 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
634534C1	049700A150	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 1.50	5.250 x 3.653 x .059	45 INT
634535C1	307702-250	Friction Clutch	FRICITION BRONZE	168.58 x 119.43 x 2.54	6.637 x 4.702 x .100	29 INT
658354C2	306744	Friction Clutch	FRICITION	266.70 x 187.20 x 2.80	10.490 x 7.360 x .110	45 INT
659592C-1	306745	Steel Clutch	STEEL	276.10 x 200.70 x 2.30	10.860 x 7.890 x .090	54 EXT
676833R-1	306717-250	Steel Clutch	STEEL MODEL 500C, 500D, 500E (8 PER SIDE)	274.70 x 178.82 x 2.26	10.815 x 7.040 x .089	9 EXT
705105C-2	306720A	Friction Clutch	FRICITION BRONZE	228.70 x 161.85 x 2.84	9.004 x 6.372 x .112	39 INT
70977C-2	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
716719C-1	306719-120	Steel Clutch	STEEL	143.81 x 100.13 x 1.22	5.662 x 3.942 x .048	28 EXT
87313939	311722	Friction Clutch	FRICITION BRAKE			
92934C2	306733	Steel Clutch	STEEL	140.91 x 107.11 x 1.19	5.548 x 4.217 x .047	6 EXT
92935C5	306734	Friction Clutch	FRICITION	141.12 x 105.23 x 1.98	5.556 x 4.143 x .078	48 INT
9398112	329708	Friction Clutch	FRICITION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT
A17921	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
A188946	310726A250	Friction Clutch	FRICITION HEG WF	127.25 x 82.19 x 2.54	5.010 x 3.236 x .100	40 INT
A41005X	306709	Steel Clutch	STEEL	142.62 x 99.14 x 1.6	5.615 x 3.903 x .063	8 EXT
A41355	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
A52252	306703-300	Steel Clutch	STEEL 580K BACKHOE (1 LUG)	238.02 x 120.55 x 3.05	9.371 x 4.746 x .120	0 EXT
A52253	306702-467	Friction Clutch	FRICITION BRONZE	203.20 x 57.20 x 4.70	7.990 x 2.250 x .185	19 INT
A52393	306702-467	Friction Clutch	FRICITION BRONZE	203.20 x 57.20 x 4.70	7.990 x 2.250 x .185	19 INT
D50040	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
D50041	023739	Steel Clutch	STEEL LARGE	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
D50047	023767	Steel Clutch	STEEL (BELLEVILLE)	134.34 x 100.08 x 1.85	5.289 x 3.940 x .073	8 INT
D50082	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
D55252	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT

# ALTO HEAVY DUTY CATALOG

## J.I. CASE / I.H.C. / DRESSER IND.

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
D70672	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
D80064	310716	Friction Clutch	FRICITION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
E135005	329708	Friction Clutch	FRICITION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT
G101711	306729-320	Steel Clutch	STEEL Models 450, 850, 1150,1 450, B,C,D	200.81 x 139.65 x 3.18	7.906 x 5.498 x .125	46 EXT
G102354	306708-480	Friction Clutch	FRICITION BRONZE	190.53 x 117.07 x 4.75	7.501 x 4.609 x .187	29 INT
N-7217	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
N-7219	049700BR235	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 2.36	5.250 x 3.653 x .093	45 INT
PB7600-2	320712-518	Friction Clutch	FRICITION BRAKE DISC	659.13 x 491.74 x 5.18	25.950 x 19.360 x .204	166 INT
PB7601-2	325707-240	Steel Clutch	STEEL	682.75 x 509.69 x 2.41	26.808 x 20.063 x .095	226 EXT
PB7602-2	325708-690	Friction Clutch	FRICITION - BRAKE	680.39 x 509.78 x 6.88	26.787 x 20.070 x .271	208 EXT
S-73416	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
S73872	023712BR	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 1.52	5.850 x 4.241 x .060	52 INT
S73873	023701	Steel Clutch	STEEL (SMALL)	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
S73873	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
S-94326	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT

## JCB Clutches

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
04-500229	023761	Steel Clutch	STEEL - PRESSURE PLATE	138.94 x 98.58 x 8.66	5.471 x 3.881 x .341	
04-500230	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
04-500231	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
04-500233	023760	Steel Clutch	STEEL - PRESSURE PLATE	138.99 x 99.01 x 8.18	5.472 x 3.898 x .322	
331-16516	324703-200	Steel Clutch	STEEL	147.14 x 99.49 x 2.03	5.793 x 3.917 x .080	57 EXT
331-16519	324707-120	Steel Clutch	STEEL	147.30 x 99.40 x 1.20	5.790 x 3.910 x .047	57 EXT
331-16520	324702-240	Friction Clutch	FRICITION TAN SB	140.21 x 92.84 x 2.39	5.517 x 3.641 x .094	45 INT
331-16520	324702C240	Friction Clutch	FRICITION TAN PL	140.21 x 92.84 x 2.39	5.517 x 3.641 x .094	45 INT
445-03205	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
445-03205	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
445-03206	023751A	Steel Clutch	STEEL	150.95 x 98.76 x 1.80	5.943 x 3.888 x .071	6 EXT
445-05107	023763-150	Steel Clutch	STEEL	111.02 x 66.73 x 1.47	4.371 x 2.627 x .058	6 EXT
445-10602	023762-600	Steel Clutch	STEEL	138.76 x 98.15 x 6.01	5.463 x 3.864 x .236	18 EXT
445-12314	023701-120	Steel Clutch	STEEL	138.99 x 99.01 x 1.19	5.472 x 3.898 x .047	54 EXT
445-30011	049740-230	Friction Clutch	FRICITION RED PL	133.35 x 92.79 x 2.31	5.250 x 3.653 x .091	45 INT
445-30011	049740B230	Friction Clutch	FRICITION TAN PL	133.35 x 92.79 x 2.31	5.250 x 3.653 x .091	45 INT
450-10224	324700A385	Friction Clutch	FRICITION (8 HOLES) TAN PLNI	221.95 x 49.61 x 3.89	8.738 x 1.953 x .153	15 INT
450-10224	324700C385	Friction Clutch	FRICITION (8 HOLES) TAN PL	221.95 x 49.61 x 3.89	8.738 x 1.953 x .153	15 INT
450-10226	324701-385	Steel Clutch	STEEL	238.02 x 140.08 x 3.89	9.371 x 5.515 x .153	3 EXT
453-15301	324705-378	Steel Clutch	STEEL	240.26 x 130.05 x 3.81	9.459 x 5.120 x .150	9 EXT
458-20353	324700A385	Friction Clutch	FRICITION (8 HOLES) TAN PLNI	221.95 x 49.61 x 3.89	8.738 x 1.953 x .153	15 INT
458-20353	324700C385	Friction Clutch	FRICITION (8 HOLES) TAN PL	221.95 x 49.61 x 3.89	8.738 x 1.953 x .153	15 INT
814-00207	023767	Steel Clutch	DISC SPRING	134.34 x 73.74 x 1.85	5.289 x 2.903 x .073	8 INT

## JCB Misc. Parts



# ALTO HEAVY DUTY CATALOG

## JCB Misc. Parts

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
04-500201	038105	Gasket, Overhaul Kit Component	Ring - Drive Gear			
04-500204	023196	Washer	Thrust Washer			
04-500208	023276	Steel Clutch	Spring - Reverse Pressure Plate			
04-500211A	A38001	Sealing Ring	Seal - Reverse Outer			
04-500213	023020	Gasket, Overhaul Kit Component	Gasket - Forward/Reverse			
04-50021A	023002	Sealing Ring	Seal - Front Pump			
04-500237A	023054A	Sealing Ring	Seal - Forawrd Clutch Outer			
04-500241	023252	Snap Ring	Snap Ring - Reverse Gear			
04-500242	023188	Washer	Thrust Washer			
04-500243	023187	Washer	Thrust Washer			
04-500274	023022	Gasket, Overhaul Kit Component	Gasket - Valve Cover			
2401-0020	010210A	Gasket, Overhaul Kit Component	ORING			

## JCB Overhaul Kit

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	023812	Overhaul Kit	T72 Overhaul Kit contains Rubber Seals, Metal Clad Seals and Orings			
813/10175	324050	Gasket, Overhaul Kit Component	Gasket - Valve Block			

## JOHN DEERE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	314701-190	Steel Clutch	STEEL	177.09 x 131.90 x 1.93	6.972 x 5.193 x .076	69 EXT
AL38240	049700	Friction Clutch	FRICITION TAN PL	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
AR-108105	049700-250	Friction Clutch	FRICITION TAN PL	133.35 x 92.79 x 2.49	5.250 x 3.653 x .098	45 INT
AR39128	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
AR87422	319710	Friction Clutch	FRICITION	177.62 x 112.78 x 2.92	6.993 x 4.440 x .115	54 INT
AT100837	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
AT101001	049700	Friction Clutch	FRICITION TAN PL	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
AT26632	049700	Friction Clutch	FRICITION TAN PL	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
AT339922	313720-160	Friction Clutch	FRICITION	109.72 x 68.32 x 1.60	4.320 x 2.690 x .063	34 INT
CE20586	319733-375	Steel Clutch	STEEL	146.00 X 101.00 X 3.74	5.748 X 3.976 X .148	8 EXT
M3293T	313704-400	Friction Clutch	FRICITION FIBER	216.03 x 125.35 x 3.94	8.505 x 4.935 x .155	26 INT
M-872T	313713	Steel Clutch	STEEL	235.59 x 161.98 x 2.21	9.725 x 6.377 x .087	6 EXT
R-31404-R	319710	Friction Clutch	FRICITION	177.62 x 112.78 x 2.92	6.993 x 4.440 x .115	54 INT
R39259	313719-157	Steel Clutch	STEEL	142.06 x 99.19 x 1.50	5.593 x 3.905 x .059	6 EXT
RE234261	319702	Friction Clutch	FRICITION HEG WF	197.36 x 130.43 x 3.30	7.770 x 5.135 x .130	42 INT
RE29815	319734-230	Friction Clutch	FRICITION			6 EXT
T100680	023701	Steel Clutch	STEEL (SMALL)	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
T100681	023739	Steel Clutch	STEEL LARGE	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
T-140926	023701A	Steel Clutch	STEEL- 3 TEETH REMOVED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	51 EXT
T-14339	313715	Steel Clutch	STEEL	275.82 x 177.90 x 2.64	10.859 x 7.004 x .104	6 EXT
T14340	313706-480	Friction Clutch	STEEL			33 INT
T-20716	313708-490	Friction Clutch	FRICITION FIBER	276.83 x 188.47 x 4.90	10.899 x 7.420 x .193	38 INT
T-20790	313702-450	Friction Clutch	FRICITION FIBER	227.89 x 147.98 x 4.50	8.972 x 5.826 x .177	30 INT
T-211817	313714-480	Friction Clutch	FRICITION RED PLI	274.45 x 188.34 x 4.88	10.805 x 7.415 x .192	38 INT
T-21315	313701	Steel Clutch	STEEL	245.90 x 174.96 x 2.41	9.681 x 6.888 x .095	6 EXT
T-31732	313711	Steel Clutch	STEEL	301.24 x 206.45 x 2.62	11.860 x 8.128 x .103	6 EXT
T-44128	313712-450	Friction Clutch	FRICITION BRONZE	147.90 x 147.90 x 4.50	8.930 x 5.820 x .177	30 INT
T-44129	313710-475	Friction Clutch	FRICITION	204.72 x 53.52 x 4.80	8.060 x 2.107 x .189	22 INT
T-44804	330717-150	Steel Clutch	STEEL	151.94 x 81.69 x 1.52	5.982 x 3.216 x .060	40 INT
T-44805	332704	Friction Clutch	FRICITION BRONZE	164.24 x 103.81 x 2.87	6.466 x 4.087 x .113	76 EXT
T-82355	313714-480	Friction Clutch	FRICITION RED PLI	274.45 x 188.34 x 4.88	10.805 x 7.415 x .192	38 INT
YZ100952	313721-307	Friction Clutch	STEEL PARK BRAKE	209.35 x 138.43 x 3.07	8.242 x 5.450 x .121	8 INT
YZ106-060	314700A280	Friction Clutch	FRICITION TAN PLI	169.67 x 124.69 x 2.79	6.680 x 4.909 x .110	60 INT
YZ106212	023712-279	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.79	5.850 x 4.241 x .110	52 INT

## JOHN DEERE BRAKE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
R-110464	099722K	Friction Clutch	FRICITION BRAKE PAD 7" ARAMID Also fits 50 SERIES Tractors	3.200	.126	
R-111122	099720K	Friction Clutch	FRICITION BRAKE PAD 6" ARAMID Also fits 50 SERIES Tractors	3.200	.126	0 EXT
R-90090	099724K	Friction Clutch	FRICITION BRAKE PAD 7-1/4" ARAMID Also fits 50 SERIES Tractors	3.200	.126	

## JOHN DEERE DIFFERENTIAL

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	319730-325	Friction Clutch	FRICITION TAN WF	228.55 x 146.35 x 3.25	8.998 x 5.762 x .128	42 INT
	319750	Friction Steel Module	MODULE, FRICITION & STEEL Contains: 3 319730-325, 2-319731-300, 1-319731A300			
R-34857	319731A300	Steel Clutch	STEEL	252.06 x 157.18 x 3.05	9.924 x 6.188 x .120	12 EXT
R-34858	319731-300	Steel Clutch	STEEL - ROUND TOOTH	255.52 x 157.18 x 3.05	10.060 x 6.188 x .120	9 EXT

## JOHN DEERE POWERSHIFT

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
AR-40896	319714-330	Friction Clutch	FRICITION POWERSHIFT HEG PLI	323.32 x 262.86 x 3.30	12.279 x 10.349 x .130	104 INT
AR-68345	319714-330	Friction Clutch	FRICITION POWERSHIFT HEG PLI	323.32 x 262.86 x 3.30	12.279 x 10.349 x .130	104 INT
AR-94515	319714-330	Friction Clutch	FRICITION POWERSHIFT HEG PLI	323.32 x 262.86 x 3.30	12.279 x 10.349 x .130	104 INT
AR-94516	319700	Friction Clutch	FRICITION HEG WF	177.80 x 112.78 x 2.92	7.000 x 4.440 x .115	54 INT
AR-94517	319702	Friction Clutch	FRICITION HEG WF	197.36 x 130.43 x 3.30	7.770 x 5.135 x .130	42 INT
AT-179473	313716-160	Friction Clutch	FRICITION HEG WF	119.74 x 79.25 x 1.60	4.714 x 3.120 x .063	40 INT
R-46391	319701	Steel Clutch	STEEL	195.07 x 120.65 x 3.05	7.680 x 4.750 x .120	6 EXT

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE POWERSHIFT

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
R-46416	319715-310	Steel Clutch	STEEL POWERSHIFT	345.19 x 269.32 x 3.07	13.590 x 10.603 x .121	4 EXT
R-46418	319703	Steel Clutch	STEEL	216.84 x 138.02 x 2.97	8.537 x 5.434 x .117	6 EXT
R-48236	319705-300	Steel Clutch	STEEL POWERSHIFT	307.57 x 246.58 x 3.05	12.109 x 9.708 x .120	4 EXT
R-56547	319701A310	Steel Clutch	STEEL POWERSHIFT 1 NOTCHED LUG	195.07 x 120.65 x 3.05	7.680 x 4.750 x .120	6 EXT
R-77671	319709-200	Steel Clutch	STEEL	196.60 x 120.93 x 1.98	7.740 x 4.761 x .078	6 EXT
R-86308	319711-300	Steel Clutch	STEEL	355.86 x 268.99 x 3.07	14.010 x 10.590 x .121	8 EXT
RE-17162	319704-300	Friction Clutch	FRICTION POWERSHIFT HEG PLI	295.25 x 239.80 x 3.05	11.624 x 9.441 x .120	94 INT
RE-27995	319710	Friction Clutch	FRICTION BRONZE	177.62 x 112.78 x 2.92	6.993 x 4.440 x .115	54 INT
RE-28023	319712	Friction Clutch	FRICTION BRONZE	197.36 x 130.43 x 3.30	7.770 x 5.135 x .130	42 INT
RE-29816	049720B186	Friction Clutch	FRICTION DIFF LOCK FWD Fits 50, 55, 60, Mid 80 to 90 Series (2 Teeth Removed)	133.35 x 92.79 x 1.86	5.250 x 3.653 x .073	45 INT
RE-35517	319708-330	Friction Clutch	FRICTION HEG PL	234.75 x 187.12 x 3.33	9.242 x 7.367 x .131	88 EXT
RE-62897	319714-330	Friction Clutch	FRICTION POWERSHIFT HEG PLI	323.32 x 262.86 x 3.30	12.279 x 10.349 x .130	104 INT
T-158801	313717-180	Steel Clutch	STEEL POWERSHIFT FWD/REV Plus 1,2,3,4 and FORWARD	131.10 x 86.30 x 1.80	5.160 x 3.390 x .071	30 EXT
T-164626	313716-160	Friction Clutch	FRICTION HEG WF	119.74 x 79.25 x 1.60	4.714 x 3.120 x .063	40 INT

## JOHN DEERE PTO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
AR-108105	319722G	Friction Clutch	FRICTION PTO HEG PLI	133.35 x 92.79 x 2.49	5.250 x 3.653 x .098	45 INT
R-61066	319723-560	Steel Clutch	STEEL QUAD RANGE WITH PTO Models: 4030, 4040, 4050, 4230, 4240, 4250, 4350, 4430, 4440, 4450, 4455, 4475, 4560, 4630, 4640, 4650, 4755, 4760, 4850, 4955, 4960	361.90 x 176.00 x 5.60	14.230 x 6.920 x .220	3 EXT
RE-234264	319724A350	Friction Clutch	FRICTION QUAD RANGE WITH PTO HEG WF (22 HOLES around ID) Models: 4030, 4040, 4050, 4230, 4240, 4250, 4350, 4430, 4440, 4450, 4455, 4475, 4560, 4630, 4640, 4650, 4755, 4760, 4850, 4955, 4960	305.71 x 149.35 x 3.73	12.036 x 5.880 x .147	48 INT
RE-37011	319720	Friction Clutch	FRICTION PTO TAN	133.35 x 92.79 x 1.60	5.250 x 3.653 x .063	45 INT
T-28664	319721	Steel Clutch	STEEL PTO	142.80 x 99.10 x 2.30	5.620 x 3.900 x .090	10 EXT

## JOHN DEERE SYNCHRO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
AR-27727	321701	Steel Clutch	STEEL SYNCHRO (REVERSE, LOW, HIGH)	104.72 x 71.50 x 1.19	4.123 x 2.815 x .047	4 INT
AR-44997	321700	Friction Clutch	FRICTION TAN WF SYNCHRO(REVERSE, LOW, HIGH)	115.01 x 82.52 x 2.01	4.528 x 3.249 x .079	6 EXT

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE SYNCHRO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
AR-69154	321700	Friction Clutch	FRICITION TAN WF SYNCHRO(REVERSE, LOW, HIGH)	115.01 x 82.52 x 2.01	4.528 x 3.249 x .079	6 EXT
RE-37119	321750	Friction Steel Module	KIT, SYNCHRO (REVERSE, LOW, HIGH) NOTE: 3 KITS/FULL SYNCHRO Contains: 3-321700, 2-321701			
T-158801	313717-180	Steel Clutch	STEEL POWERSHIFT FWD/REV Plus 1,2,3,4 and FORWARD	131.10 x 86.30 x 1.80	5.160 x 3.390 x .071	30 EXT

## KOMATSU

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
120-22-31221	325705-260	Steel Clutch	STEEL	287.02 x 214.78 x 2.57	11.300 x 8.456 x .101	74 INT
130-22-11320	325713-260	Steel Clutch	STEEL	349.91 x 237.57 x 2.60	13.78 x 9.353 x .102	81 INT
235-25-11360	320718-380	Friction Clutch	FRICITION - BRAKE DISC HEG PLI	399.31 x 309.50 x 3.81	15.571 x 12.185 x .150	105 INT
235-25-51430	320719-230	Steel Clutch	STEEL - BRAKE DISC MATING PLATE	419.94 x 324.56 x 2.31	16.533 x 12.778 x .091	138 EXT
34C-15-11350	325706-300	Friction Clutch	FRICITION BRONZE	151.66 x 90.53 x 3.02	5.971 x 3.564 x .119	47 INT
381-299-549C1	306713	Steel Clutch	STEEL	181.08 x 112.78 x 1.70	7.129 x 4.440 x .067	85 EXT
381-922-539C1	306711	Steel Clutch	STEEL	181.08 x 85.83 x 1.70	7.129 x 3.379 x .067	85 EXT
381-922-541C1	306710R	Friction Clutch	FRICITION RED WF	166.98 x 78.74 x 1.80	6.574 x 3.100 x .071	32 INT
381-922-551C1	306712R	Friction Clutch	FRICITION RED PLI	167.18 x 104.82 x 1.80	6.582 x 4.127 x .071	34 INT
381-922-913C1	320767	Steel Clutch	SPRING	180.00 x 173.40 x 0.35	7.080 x 6.820 x .014	
3EA-15-11172	330700B300	Friction Clutch	FRICITION HEG WF	124.64 x 68.83 x 3.05	4.907 x 2.710 x .120	41 INT
3EA-15-11173	330700B300	Friction Clutch	FRICITION HEG WF	124.64 x 68.83 x 3.05	4.907 x 2.710 x .120	41 INT
3EA-15-11180	079731-310	Steel Clutch	STEEL	137.82 x 80.09 x 3.18	5.426 x 3.153 x .125	4 EXT
3EC-15-19270	325702BR	Friction Clutch	FRICITION BRONZE	147.19 x 90.42 x 3.00	5.795 x 3.560 x .118	47 INT
3EC-15-19280	325703	Steel Clutch	STEEL	157.02 x 100.30 x 1.40	6.182 x 3.949 x .055	8 EXT
3EC-15-29280	325703	Steel Clutch	STEEL	157.02 x 100.30 x 1.40	6.182 x 3.949 x .055	8 EXT
3EC-15-31280	325709-200	Steel Clutch	STEEL	168.30 x 100.20 x 2.00	6.620 x 3.940 x .079	8 EXT
3EC-16-31490	079731-310	Steel Clutch	STEEL	137.82 x 80.09 x 3.18	5.426 x 3.153 x .125	4 EXT
3FD-15-21570	330702-250	Friction Clutch	FRICITION GRAPHITE WF	155.70 x 87.86 x 2.54	6.130 x 3.459 x .100	37 INT
418-17-39710	325700A220	Friction Clutch	FRICITION POWERSHIFT HEG WF	159.97 x 97.38 x 2.18	6.298 x 3.834 x .086	26 INT
418-33-31261	320716-650	Steel Clutch	FRICITION - BRAKE DISC WA-200			15 INT
419-15-12290	325700	Friction Clutch	FRICITION RED WF	159.97 x 97.38 x 2.18	6.298 x 3.834 x .086	26 INT
419-15-12310	325701	Steel Clutch	STEEL	173.99 x 110.01 x 1.70	6.850 x 4.331 x .067	68 EXT
444-971C1	056705	Steel Clutch	STEEL	291.97 x 224.16 x 2.54	11.495 x 8.825 x .100	11 EXT
561-33-61230	325707-240	Steel Clutch	STEEL	682.75 x 509.69 x 2.41	26.808 x 20.063 x .095	226 EXT
566-33-41230	320715-240	Steel Clutch	STEEL - BRAKE DISC MATING PLATE (18 TEETH CLIPPED) Model & Qty: WA400-1 (5), 500-1 (7), 600-1 (14), 600-3 (10)	494.54 x 346.00 x 2.41	19.470 x 13.622 x .095	146 EXT
569-33-41241	320712-518	Friction Clutch	FRICITION BRAKE DISC	659.13 x 491.74 x 5.18	25.950 x 19.360 x .204	166 INT

# ALTO HEAVY DUTY CATALOG

## KOMATSU

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
569-33-41260	325708-690	Friction Clutch	FRICITION - BRAKE DISC Model & Qty: WA400-1 (4), 500-1 (6), 600-1 (13), 600-3 (9)	680.39 x 509.78 x 6.88	26.787 x 20.070 x .271	208 EXT
714-07-12670	325710-320	Friction Clutch	FRICITION WA LOADER HEG WF	180.04 x 110.39 x 3.25	7.088 x 4.346 x .128	26 INT
714-07-12680	325711-200	Steel Clutch	STEEL WA LOADER	198.04 x 127.99 x 2.01	7.797 x 50.390 x .079	70 EXT
714-08-19710	325712-300	Friction Clutch	FRICITION	140.00 x 86.99 x 2.99	5.512 x 3.425 x .118	26 INT
714-12-19711	325700A220	Friction Clutch	FRICITION POWERSHIFT HEG WF	159.97 x 97.38 x 2.18	6.298 x 3.834 x .086	26 INT
714-16-19730	325701	Steel Clutch	STEEL	173.99 x 110.01 x 1.70	6.850 x 4.331 x .067	68 EXT

## KUBOTA

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
K366022361	311720-244	Friction Clutch	FRICITION 555C / 555D BRONZE	133.40 x 90.30 x 2.44	5.252 x 3.555 x .096	36 INT
K3660223691	023701	Steel Clutch	STEEL	139.40 x 99.30 x 1.75	5.480 x 3.900 x .069	54 EXT
K3660223911	311720-260	Friction Clutch	FRICITION 555C / 555D BRONZE	133.40 x 90.30 x 2.59	5.252 x 3.555 x .102	36 INT

## MACK TRUCK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
308SH108	352702-520	Friction Clutch	FRICITION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
308SH133	352702-520	Friction Clutch	FRICITION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT
308SH135	352702-520	Friction Clutch	FRICITION HEG PLI	371.68 x 302.74 x 5.18	14.633 x 11.919 x .204	72 INT

## MASSEY-FERGUSON

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1672626M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
1754344M1	023703	Steel Clutch	STEEL DISHED	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
1754345M1	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
1804831M1	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
185062M3	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
185464M1	033711	Steel Clutch	STEEL PTO	144.07 x 94.49 x 1.75	5.672 x 3.720 x .069	6 EXT
1862289M2	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
1870074M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
1870879M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
190177M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
224772	023719	Steel Clutch	STEEL	154.10 x 114.05 x 1.73	6.067 x 4.490 x .068	60 EXT
230911	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
233166	023712-260	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 2.59	5.850 x 4.241 x .103	52 INT
233166	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
235161	023712BR260	Friction Clutch	FRICITION BRONZE	148.50 x 107.72 x 2.62	5.850 x 4.241 x .103	52 INT
2757328M91	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
3823952M1	323706-480	Friction Clutch	FRICITION BRAKE DISC HEG	223.75 X 55.07 X 4.83	8.809 X 2.168 X .190	27 INT
513242M1	033711A	Steel Clutch	STEEL PTO	144.20 x 94.49 x 1.40	5.677 x 3.720 x .055	33 EXT
514276M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
521282M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
523551M1	033711B220	Steel Clutch	STEEL PTO	144.07 x 94.49 x 2.21	5.672 x 3.720 x .087	11 EXT
523552M1	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT
533326M-2	323702	Friction Clutch	FRICITION PTO BRONZE	128.27 x 87.91 x 2.54	5.050 x 3.461 x .100	57 INT

# ALTO HEAVY DUTY CATALOG

## MASSEY-FERGUSON

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
6190105M1	310727-225	Steel Clutch	STEEL	143.46 x 89.51 x 2.24	5.649 x 3.524 x .088	26 EXT
772813M1	033711B	Steel Clutch	STEEL PTO	144.07 x 94.49 x 1.42	5.672 x 3.720 x .056	11 EXT

## MELROSE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
1731746	316703A	Steel Clutch	STEEL	87.91 x 60.25 x .99	3.461 x 2.372 x .039	4 EXT
6649871	179706-327	Friction Clutch	FRICTION (NO TEETH) TAN PLI	190.50 x 136.91 x 3.25	7.500 x 5.390 x .128	

## MINN - MOLINE (WHITE TRACTOR)

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
10P2664	331701-155	Steel Clutch	STEEL	152.43 x 89.43 x 1.55	6.000 x 3.521 x .061	6 INT

## MISCELLANEOUS

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
09-1280-00046- CG	320700	Friction Clutch	FRICTION TAN WF	107.95 x 68.88 x 2.67	4.250 x 2.712 x .105	28 INT

## MITSUBISHI / TCM

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
10433-40091	310716	Friction Clutch	FRICTION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
65425-13800	079731	Steel Clutch	STEEL	137.82 x 80.09 x 2.26	5.426 x 3.153 x .089	4 EXT
65425-23800	079731	Steel Clutch	STEEL	137.82 x 80.09 x 2.26	5.426 x 3.153 x .089	4 EXT
90209-92800	310716	Friction Clutch	FRICTION BRONZE	165.07 x 74.30 x 3.99	6.499 x 2.925 x .157	19 INT
91224-06500	079730A365	Friction Clutch	FRICTION HEG PLI	124.54 x 68.83 x 3.66	4.907 x 2.710 x .144	41 INT
91224-16500	079730A365	Friction Clutch	FRICTION HEG PLI	124.54 x 68.83 x 3.66	4.907 x 2.710 x .144	41 INT
91224-16500	079730A365	Friction Clutch	FRICTION HEG PLI	124.54 x 68.83 x 3.66	4.907 x 2.710 x .144	41 INT
91324-02700	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
91324-02701	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
91324-02702	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
91324-12600	308707-160	Steel Clutch	STEEL	131.70 x 80.09 x 1.60	5.185 x 3.153 x .063	24 EXT
91324-12600	308707-160	Steel Clutch	STEEL	131.70 x 80.09 x 1.60	5.188 x 3.153 x .063	24 EXT
91324-12601	308707-160	Steel Clutch	STEEL	131.70 x 80.09 x 1.60	5.185 x 3.153 x .063	24 EXT
91324-12601	308707-160	Steel Clutch	STEEL	131.70 x 80.09 x 1.60	5.185 x 3.153 x .063	24 EXT
91824-08200	308705-230	Steel Clutch	STEEL	170.38 x 99.97 x 2.09	6.708 x 3.936 x .090	6 EXT
92226-08800	330702-250	Friction Clutch	FRICTION GRAPHITE WF	155.70 x 87.86 x 2.54	6.130 x 3.459 x .100	37 INT

## MOROOKA

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
SP409	316702A	Friction Clutch	FRICTION HEG PLI	78.11 x 53.11 x 1.71	3.071 x 2.091 x .067	27 INT
SP410	316703	Steel Clutch	STEEL	190.50 x 136.91 x 3.25	3.461 x 2.372 x .039	3 EXT

## NISSAN

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
31532-22H01	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.64	4.907 x 2.710 x .104	41 INT
31532-25H01	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
31532-40K00	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
31532-LI000	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.64	4.907 x 2.710 x .104	41 INT
31532-LI500	330700A260	Friction Clutch	FRICTION HEG WF	124.64 x 68.83 x 2.59	4.907 x 2.710 x .102	41 INT
31536-22H00	312701A180	Steel Clutch	STEEL	131.55 x 77.34 x 1.78	5.179 x 3.045 x .070	42 EXT
31536-25H00	312701-160	Steel Clutch	STEEL	131.55 x 79.96 x 1.60	5.179 x 3.148 x .063	42 EXT
31536-LI002	330701A160	Steel Clutch	STEEL	131.67 x 80.16 x 1.60	5.184 x 3.156 x .063	8 EXT

# ALTO HEAVY DUTY CATALOG

## NISSAN

31536-LI500	330701A160	Steel Clutch	STEEL	131.67 x 80.16 x 1.60	5.184 x 3.156 x .063	8 EXT
-------------	------------	--------------	-------	-----------------------	----------------------	-------

## PARAGON

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
11759-P	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT

## PETTIBONE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
44238-65	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
44238-66	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
44238-80	023738BR	Friction Clutch	FRICITION BRONZE	190.61 x 147.17 x 2.92	7.504 x 5.794 x .115	59 INT
44238-81	023739	Steel Clutch	STEEL	214.83 x 155.58 x 1.75	8.458 x 6.125 x .069	3 EXT
44367-10	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
44367-9	049700-216	Friction Clutch	FRICITION TAN PL	133.35 x 92.79 x 2.16	5.250 x 3.653 x .085	45 INT

## PLYMOUTH (LOCOMOTIVE)

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
2-05193	328711-320	Steel Clutch	STEEL	244.30 x 173.00 x 3.12	9.618 x 6.811 x .123	8 EXT
2-05194	328713-320	Steel Clutch	STEEL	282.65 x 201.09 x 3.15	11.128 x 7.917 x .124	8 EXT
3-08491	328712-285	Friction Clutch	FRICITION BRONZE	228.06 x 162.41 x 2.87	8.977 x 6.394 x .113	39 INT
3-08492	328710-285	Friction Clutch	FRICITION BRONZE	267.06 x 187.73 x 2.84	10.514 x 7.391 x .112	45 INT

## RENK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
50.67.011/2	330714-400	Friction Clutch	FRICITION BRONZE	275.77 x 212.14 x 3.99	10.857 x 8.352 x .157	53 INT
50.67.314/2	330712-400	Friction Clutch	FRICITION BRONZE	364.67 x 265.05 x 3.99	14.357 x 10.435 x .157	53 INT
50.71.206/2	330714-400	Friction Clutch	FRICITION BRONZE	275.77 x 212.14 x 3.99	10.857 x 8.352 x .157	53 INT

## ROCKFORD POWERTRAIN

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
C-305193	306709-155	Steel Clutch	STEEL	142.62 x 99.14 x 1.55	5.615 x 3.903 x .061	8 EXT
C317753-X1	049700A150	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 1.50	5.250 x 3.653 x .059	45 INT
C-317754-X1	307702-250	Friction Clutch	FRICITION BRONZE	168.58 x 119.43 x 2.54	6.637 x 4.702 x .100	29 INT

## SANDERSON

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
504651	317704-490	Friction Clutch	FRICITION BRAKE	204.47 x 60.83 x 4.90	8.050 x 2.395 x .193	22 INT

## SKYTRAK

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
8033096	328750	Friction Steel Module	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701			
8034688	328750	Friction Steel Module	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701			
R30WA109	328701	Steel Clutch	STEEL	200.10 x 102.10 x 6.10	7.870 x 4.010 x .087	61 EXT
R30WA120	328700	Friction Clutch	FRICITION BLK WF	177.62 x 69.42 x 3.81	6.993 x 2.733 x .150	23 INT

## TEREX

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
15000719	329701-250	Steel Clutch	STEEL BRAKE PLATE	740.13 x 539.88 x 2.41	29.139 x 21.255 x .095	140 BASE 144 EXT
15000720	329702-690	Friction Clutch	BRAKE DAMPER (1 side cork facing)	738.00 x 539.50 x 6.90	29.020 x 21.220 x .271	140 EXT

# ALTO HEAVY DUTY CATALOG

## TEREX

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
15235882	329700-520	Friction Clutch	FRICION BRAKE PLATE TAN PLI	714.93 x 511.23 x 5.16	28.147 x 20.127 x .203	99 INT
464-430-8328	329709-150	Steel Clutch	STEEL (Mates with 329708)	171.15 x 103.07 x 1.52	6.738 x 4.058 x .060	35 INT
9398081	329706	Friction Clutch	FRICION BRONZE	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
9398112	329708	Friction Clutch	FRICION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT

## TOYOTA

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
32343-30520-	330705-230	Steel Clutch	STEEL	161.50 x 100.00 x 2.30	6.358 x 3.937 x .090	52 EXT
32343-30520-71	330708-260	Friction Clutch	FRICION	156.00 x 89.00 x 2.60	6.140 x 3.500 x .102	29 INT
32412-22030	330703-200	Steel Clutch	STEEL	165.50 x 100.00 x 2.00	6.510 x 3.930 x .079	12 EXT
32413-31710-	330713-200	Steel Clutch	FRICION	165.50 x 100.00 x 2.00	6.510 x 3.930 x .079	18 EXT
32425-U2170-	330707-203	Steel Clutch	STEEL	139.52 x 88.52 x 1.98	5.493 x 3.485 x .078	8 EXT
32431-12050-	330711	Steel Clutch	STEEL	161.11 x 114.15 x 1.80	6.343 x 4.494 x .071	8 EXT
32431-23630-	330709-200	Steel Clutch	STEEL	143.10 x 88.70 x 2.00	5.633 x 3.492 x .079	6 EXT
32432-22030-71	330706-260	Friction Clutch	FRICION	155.70 x 87.86 x 2.59	6.130 x 3.459 x 0.102	37 INT
32432-32890	330702-250	Friction Clutch	FRICION GRAPHITE WF	155.70 x 87.86 x 2.54	6.130 x 3.459 x .100	37 INT
32461-23030-	330710	Friction Clutch	FRICION HEG PLI	149.66 x 107.67 x 2.62	5.892 x 4.239 x .103	42 INT
32461-23630-	330704-257	Friction Clutch	FRICION HEG WF	130.63 x 79.27 x 2.60	5.143 x 3.121 x .102	30 INT
40615-20060-	330700A260	Friction Clutch	FRICION HEG WF	124.64 x 68.83 x 2.64	4.907 x 2.710 x .104	41 INT
40616-20060-	330701	Steel Clutch	STEEL	131.67 x 77.17 x 1.73	5.184 x 3.038 x .068	8 EXT

## TWIN DISC

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	352750A	Friction Steel Module	KIT - FRICTION & STEEL Contains: 9-352704A388, 2-352712BR390, 10-352701			
204097	332703	Steel Clutch	STEEL FOR/REV MG-506	101.60 x 64.69 x 1.59	4.000 x 2.547 x .063	42 INT
206106X	332712	Friction Clutch	FRICION HEG WF MG-518	214.93 x 151.54 x 3.18	8.462 x 5.966 x .125	100 EXT
215736	332711-228	Steel Clutch	STEEL MG518	203.20 x 138.4 x 2.30	7.990 x 5.440 x .090	56 INT
A4480A,B,M	332704	Friction Clutch	FRICION BRONZE FOR/REV MG-509 & MG-512	164.24 x 103.81 x 2.87	6.466 x 4.087 x .113	76 EXT
A4481A	330717-150	Steel Clutch	STEEL	151.94 x 81.69 x 1.52	5.982 x 3.216 x .060	40 INT
A6566E	332706	Friction Clutch	FRICION BRONZE MG-514 ALL MODELS	236.04 x 139.67 x 3.10	9.293 x 5.400 x .122	12 EXT
A6567E	332709	Steel Clutch	STEEL STEPPED MG-514A, MG-514B LATE & MG-514C	203.70 x 123.11 x 4.72	7.995 x 4.847 x .186	40 INT
B3060B	332702	Friction Clutch	FRICION BRONZE FOR/REV MG-506	112.14 x 71.30 x 2.16	4.415 x 2.807 x .085	68 EXT
B3336A	332700	Friction Clutch	FRICION BRONZE FOR/REV MG-502	102.67 x 70.23 x 2.16	4.042 x 2.765 x .085	79 EXT
B3337	332701	Steel Clutch	STEEL FOR/REV MG-502	94.360 x 63.68 x 1.30	3.715 x 2.507 x .051	52 INT



# ALTO HEAVY DUTY CATALOG

## TWIN DISC

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
P4251A,B,C	332704	Friction Clutch	FRICITION FOR/REV BRONZE MG-509 & MG-512	164.24 x 103.81 x 2.87	6.466 x 4.087 x .113	76 EXT
T-22176A	023712	Friction Clutch	FRICITION TAN PL	148.50 x 107.72 x 1.55	5.850 x 4.241 x .061	52 INT
T-44804	330717-150	Steel Clutch	STEEL	151.94 x 81.69 x 1.52	5.982 x 3.216 x .060	40 INT

## VOLVO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
0501-309-329	329706	Friction Clutch	FRICITION BRONZE	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
0501-309-600	329706	Friction Clutch	FRICITION BRONZE	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
0750-140-009	329706	Friction Clutch	FRICITION BRONZE	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
11037030-1	330720A480	Friction Clutch	FRICITION HEG	223.52 x 69.85 x 4.83	8.800 x 2.250 x .190	23 INT
11037196-0	330718-200	Friction Clutch	FRICITION BRONZE	163.80 x 99.24 x 2.01	6.449 x 3.907 x .079	76 EXT
11103171	330726	Friction Clutch	FRICITION			
11703652-5	310715	Steel Clutch	STEEL	218.97 x 158.93 x 2.73	8.621 x 6.257 x .108	14 EXT
11703854-7	310719	Steel Clutch	STEEL	257.05 x 190.83 x 2.59	10.120 x 7.513 x .102	12 EXT
11703987	330722	Friction Clutch	FRICITION HEG	419.48 X 100.25 X 9.55	16.51 X 3.947 X .376	36 INT
464-430-8328	329709-150	Steel Clutch	STEEL (Mates with 329708)	171.15 x 103.07 x 1.52	6.738 x 4.058 x .060	35 INT
4715178	330716-290	Friction Clutch	FRICITION PTO BRONZE	164.13 x 89.05 x 2.95	6.462 x 3.506 x .116	76 EXT
4718216	330717-150	Steel Clutch	STEEL PTO	151.94 x 81.69 x 1.52	5.982 x 3.216 x .060	40 INT
4720762	332705-200	Steel Clutch	STEEL Shifting Clutch - all ranges	152.45 x 92.46 x 2.00	6.002 x 3.640 x .079	45 INT
47800C57	049700A150	Friction Clutch	FRICITION BRONZE	133.35 x 92.79 x 1.50	5.250 x 3.653 x .059	45 INT
4871966	023701	Steel Clutch	STEEL	138.99 x 99.01 x 1.73	5.472 x 3.898 x .068	54 EXT
4873042-7	049720	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 1.55	5.250 x 3.653 x .061	45 INT
4873043-6	049700BR	Friction Clutch	FRICITION BRONZE	128.60 x 92.79 x 1.55	5.063 x 3.653 x .061	45 INT
795322	306709-155	Steel Clutch	STEEL	142.62 x 99.14 x 1.55	5.615 x 3.903 x .061	8 EXT

## WABCO

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
DC-4208	326701	Steel Clutch	STEEL	557.28 x 435.76 x 4.98	21.94 x 17.156 x .196	104 INT

## WICHITA

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
308-11-24	326701	Steel Clutch	STEEL	557.28 x 435.76 x 4.98	21.94 x 17.156 x .196	104 INT

## YALE

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
0592179-00	308701	Steel Clutch	STEEL	205.59 x 145.47 x 1.65	8.094 x 5.727 x .065	64 EXT
0592180-00	308700A	Friction Clutch	FRICITION BRONZE	196.60 x 138.20 x 2.79	7.730 x 5.430 x .110	44 INT
4907850	308701	Steel Clutch	STEEL	205.59 x 145.47 x 1.65	8.094 x 5.727 x .065	64 EXT
505971578	023701-300	Steel Clutch	STEEL	138.99 x 99.01 x 3.01	5.472 x 3.898 x .119	54 EXT
5184708-19	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
5800145-55	049720-200	Friction Clutch	FRICITION HEG PLI	133.35 x 92.79 x 2.08	5.250 x 3.653 x .082	45 INT
58001956	319722G	Friction Clutch	FRICITION PTO HEG PLI	133.35 x 92.79 x 2.49	5.250 x 3.653 x .098	45 INT
630243	334710	Friction Clutch	FRICITION BRONZE	192.00 x 117.60 x 2.40	7.550 x 4.620 x .094	37 EXT
643847	308701	Steel Clutch	STEEL	205.59 x 145.47 x 1.65	8.094 x 5.727 x .065	64 EXT
643848	308700A	Friction Clutch	FRICITION BRONZE	196.60 x 138.20 x 2.79	7.730 x 5.430 x .110	44 INT
900-952-804	334712	Friction Clutch	FRICITION	133.70 x 77.30 x 2.80	5.260 x 3.040 x .110	38 INT

## ZF

# ALTO HEAVY DUTY CATALOG

## ZF

Ref #	Alto Number	Part Type	Comment	OD-ID-THK - MM	OD-ID-THK- INCH	Teeth-Spl
	330701A160	Steel Clutch	STEEL	131.67 x 80.16 x 1.60	5.184 x 3.156 x .063	8 EXT
0501-215-214	329712A310	Friction Clutch	FRICTION ONE SIDED PLI	348.28 x 300.91 x 3.10	13.712 x 11.847 x .122	61 INT
0501-220-255	329713A310	Friction Clutch	FRICTION ONE SIDED PLI	374.14 x 311.91 x 3.10	14.730 x 12.280 x .122	12 EXT
0501-309-329	329706	Friction Clutch	FRICTION BRONZE	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
0501-309-330	329708	Friction Clutch	FRICTION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT
0501-309-541	329708	Friction Clutch	FRICTION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT
0501-309-600	329706	Friction Clutch	FRICTION BRONZE Model 6WG-200	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
0750-140-009	329706	Friction Clutch	FRICTION	137.29 x 91.24 x 2.01	5.405 x 3.592 x .079	27 EXT
0750-140-010	329708	Friction Clutch	FRICTION BRONZE	177.32 x 109.22 x 2.01	6.981 x 4.300 x .079	35 EXT
4181-292-032	329714A245	Friction Clutch	FRICTION ONE SIDED PLI	290.65 x 232.36 x 2.44	11.443 x 9.148 x .096	46 INT
4181-292-033	329715A245	Friction Clutch	FRICTION ONE SIDED PLI	297.56 x 243.36 x 2.44	11.715 x 9.581 x .096	72 EXT
4181-295-056	329711A245	Friction Clutch	FRICTION ONE SIDED PLI	208.28 x 158.52 x 2.44	8.200 x 6.241 x .096	42 EXT
4181-295-065	329717A245	Friction Clutch	FRICTION ONE SIDED PLI	198.55 x 243.36 x 2.44	7.817 x 5.821 x .096	32 INT
4181-327-001	329715X	Steel Clutch	STEEL WAVED	297.56 x 243.36 x .79	11.715 x 9.581 x .031	72 EXT
4181-328-017	329715-142	Steel Clutch	STEEL	297.56 x 243.36 x 1.42	11.715 x 9.581 x .056	72 EXT
4181-355-026	329717-140	Steel Clutch	STEEL	198.55 x 147.85 x 1.10	7.817 x 5.821 x .055	32 INT
464-230-8330	329707-150	Steel Clutch	STEEL - KOLENE Model 6WG-200	131.19 x 85.24 x 1.50	5.165 x 3.356 x .059	29 EXT
464-230-8331	329707-250	Steel Clutch	STEEL - KOLENE Model 6WG-200	131.19 x 85.24 x 2.49	5.165 x 3.356 x .098	29 EXT
464-230-8332	329707-200	Steel Clutch	STEEL - KOLENE Model 6WG-200	131.19 x 85.24 x 2.01	5.165 x 3.356 x .079	29 EXT
7302726	053703	Steel Clutch	STEEL	156.03 x 119.13 x 1.80	6.143 x 4.690 x .071	12 EXT
7302727	053702	Friction Clutch	FRICTION TAN PL	142.98 x 110.08 x 1.55	5.629 x 4.334 x .061	24 INT
7302752	053700	Friction Clutch	FRICTION HEG SMOOTH	99.850 x 68.170 x 1.55	3.931 x 2.684 x .061	34 INT
7302753	053701	Steel Clutch	STEEL	107.82 x 76.17 x 1.80	4.245 x 2.999 x .071	24 EXT