



**SERVICE PARTS  
FOR  
READER HEADS  
SCALES  
ENCODERS  
RACK & PINION  
BALLSCREWS  
MACHINE PARTS**

ANILAM Inc.  
3300 Corporate Way  
Miramar, Florida  
U.S.A. 33025  
(954) 430-6600  
(954) 450-6700  
[www.anilam.com](http://www.anilam.com)

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# SERVICE PARTS READER HEADS AND PARTS

PRICES SHOWN SUBJECT TO DEALER DISCOUNT UNLESS OTHERWISE SPECIFIED

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	
19100015	X-BOX	
19000124	A-2 .002MM 10" CABLE X-BOX TYPE	
19000008	A-2 .002MM 13FT CABLE X-BOX TYPE	
19000015M	A-2 .002MM 10" CABLE NO X-BOX	
19000011	A-2 .002MM 13FT CABLE NO X-BOX	
19000012	A-2 .002MM 19FT CABLE NO X-BOX	
19000116	A-10 .01MM 10" CABLE	
19000006	A-10 .01MM 13FT CABLE	
19000106	A-10 .01MM 19FT CABLE	
19000009	B1 .001MM X-BOX TYPE	
19000013	B1 .001MM 13FT CABLE NO X-BOX	
19000014	B1 .001MM 19FT CABLE NO X-BOX	
19000010	B5 .005MM 10" CABLE	
19000007	B5 .005MM 13FT CABLE	
19000107	B5 .005MM 19FT CABLE	
19000134	C2 .002MM 10" CABLE	
19000108	C2 .002MM 19FT CABLE	
19000131	C5 .005MM 19FT CABLE	
19000133	C-10 .01MM 10" CABLE	
19000105	C-10 .01MM 19FT CABLE	
19000120	D-10 .01MM	
19000122	E-1 .001MM	
19000119	E-5 .005MM	
19000132	F-2 .002MM 10" CABLE	
19000121	F-2 .002MM 13FT CABLE	
19100132	KM-5 .005MM	
19100131	KM-10 .01MM	

**PRE QUANTUM STYLE HEADS**

17400025	MBT .01MM	
17400060	SST/MBT .01MM	
17400061	SST/MBT 10" CABLE	
17400070	SST/MDD .005MM	
17400071	SST/MDD 10" CABLE	
17400080	SST/MJB .002MM	
17400081	SST/MJB 10" CABLE	
17410060	MBT/SST .01MM 15FT CABLE. NEW STYLE	
17410061	MBT/SST .01MM 12" CABLE. NEW STYLE	

# SERVICE PARTS READER HEADS AND PARTS

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<u>PART NUMBER</u>	<u>DESCRIPTION</u>	
19100137	PGS-P/E .005MM 10" CABLE	
19100133	PGS-P/E .005MM 13FT CABLE	
19100134	PGS-P/E .005MM 19FT CABLE	
19000146	RBM 2 .002MM 13FT. CABLE	
19000147	RBM 2 .002MM 19FT. CABLE	
19000150	RBM 10 MICRON 13FT. CABLE	
19000151	RBM 10 MICRON 19FT. CABLE	
19000143	RBS-1 .001MM 10" CABLE	
19000135	RBS-1 .001MM 13FT CABLE	
19000136	RBS-1 .001MM 19FT CABLE	
19000139	RBS 2 .002MM 13FT CABLE	
19000140	RBS 2 .002MM 19FT CABLE	
19000145	RBS 5 .005MM 10" CABLE	
19000137	RBS 5 .005MM 13FT CABLE	
19000138	RBS 5 .005MM 19FT CABLE	
19000144	RBS 10 .01MM 10" CABLE	
19000141	RBS 10 .01MM 13FT CABLE	
19000142	RBS 10 .01MM 19FT CABLE	
<b>T VERSION HEADS WITH DB9</b>		
19010137	PGSP-T .005MM DB9 13FT CABLE	
19010138	PGSP-T .005MM DB9 19FT CABLE	
19010139	RBM-1T .001MM DB9 13FT CABLE	
19010140	RBM-1T .001MM DB9 19FT CABLE	
19010141	RBM-5T .005MM DB9 13FT CABLE	
19010142	RBM-5T .005MM DB9 19FT CABLE	
19020135	RBS-1T .001MM DB9 13FT CABLE	
19020136	RBS-1T .001MM DB9 19FT CABLE	
19020137	RBS-5T .005MM DB9 13FT CABLE	
19020138	RBS-5T .005MM DB9 19FT CABLE	

## SERVICE PARTS READER HEADS AND PARTS

PRICES SHOWN SUBJECT TO DEALER DISCOUNT UNLESS OTHERWISE SPECIFIED

**PART NUMBER****DESCRIPTION****READER HEAD ADAPTER CABLES**

36000591	FEMALE 9PDB TO MALE PT06 CONNECTS T VERSION HEADS TO PT06 VERSION READOUTS	
36000592	MALE 9PDB TO FEMALE PT06 CONNECTS PT06 VERSION HEADS TO DB9 VERSION READOUTS	
36000538	SPIRIT ADAPTER CABLE. FEMALE PT06 TO MALE DIN. CONNECTOR	
<b>80200113</b>	<b>PT06 FEMALE BULKHEAD CONNECTOR</b>	
<b>80200114</b>	<b>PT06 MALE CABLE END</b>	

**GRATINGS**

19000127	RD HD,MINI/MICRO GRATING D-10	
19000128	RD HD,MINI/MICRO GRATING F-2	
19000129	GRATING,MINI/MICRO E-5	
19000130	RD HD,MINI/MICRO GRATING E-1	
19100010	B1 AND B5 GLIDER ( GRATING )	
19100011	A-10 GLIDER ( GRATING )	

**SCALE LIP SEAL**

19100029	A, B,C ,D, E, F, RBS, RBM, PGS, KM	
17500105	MBT VERSION SCALES 12FT LENGTH	
17500363	SST VERSION SCALES 12FT LENGTH	

**MISCELLANEOUS PARTS**

**SALES WILL QUOTE BASED ON QTY**

**READER HEAD SET SCREWS**

19100140	SET SCREW D/E/F/KM	
19100139	SET SCREW PGS	
19100141	SET SCREW RBS/RBM/A/B/C	

**ALIGNMENT BRACKETS**

19100002	A, B, C SERIES.	EACH
19100023	D, E F SERIES	PAIR
19100026	KM SERIES	EACH
19100030	RBS SERIES	PAIR
<b>19100143</b>	<b>RBM SERIES</b>	<b>PAIR</b>
<b>19200016</b>	<b>PGS-P/E</b>	<b>EACH</b>
17500163	MBT	EACH
17500356	SST	PAIR

**SCALE END CAPS**

19100001	QTM SCALE	PAIR
19100024	MINI SCALE	EACH
19100028	MICRO Q	EACH
19100138	RBS	EACH
<b>19100142</b>	<b>RBM W/O MTG HOLE</b>	<b>EACH</b>
<b>19200019</b>	<b>RBM-T W/ MTG HOLE</b>	<b>EACH</b>
19200007	QTM C10,C5	EACH
19200012	SPIRIT	EACH
19200017	PGS-E	PAIR
19200018	PGS-P	SET RT&LT
17500374	SST	PAIR
86600107	MBT	EACH

**SERVICE PARTS**  
**ENCODERS AND RACK AND PINION PARTS**  
 PRICES SHOWN SUBJECT TO DEALER DISCOUNT UNLESS OTHERWISE SPECIFIED

**PART NUMBER**                      **DESCRIPTION**

61200101	64L PT07 L25G	
60900202	127L M15                      Z AXIS DOWNFEED ON CR2-M-G	
60900134	254L PT07 L25G ZERO	
60900137	500L PT07 L25G ZERO	
61100119	625 LINE. PT02 .001" LATHEMATE X AND Z AXIS.	
61200133	625L 1.5"DIA ABZ MSA SYSTEMS NO CONNECTOR	
31801165	61200133 ENCODER WITH CONNECTOR	
60900254	635L M15	
60900136	635L PT07 L25G ZERO	
61100120	635L PT02 ZERO	
61200145	635L 1.5"DIA ABZ WITHOUT CONNECTOR	
31800851	61200145 ENCODER WITH CONNECTOR	
61100124	750L PT02 L25G ZERO	
61200151	1000L SEM MOTORS	
61200152	1000L GLENTEK MOTORS	
37000121	1000L BALDOR MOTORS	
61200106	1000L PT07 L25G	
60900256	1000L PT07 DIFFERENTIAL ABZ	
61200138	1000L A5A04 ABZ LATHEMATE SPINDLE	
60900131	1000L PT07 .0005"              Z TYPE RACK & PINION	
61200150	1024L 1.5"DIA ABZ	
60900107	1250L PT07 L25G	
60900121	1270L PT07 .01MM              Z TYPE RACK & PINION	
61100103	1270L PT02 .01MM              Z TYPE RACK & PINION	
60900109	2000L PT07 .0005"              V TYPE ENDLESS TAPE	
61100104	2540L PT02 .01MM              V TYPE ENDLESS TAPE	
60900122	2540L PT07 .01MM              V TYPE ENDLESS TAPE	
60900111	5000L PT07 .0001"              Z TYPE RACK & PINION	
60900123	6350L PT07 .002MM              Z TYPE RACK & PINION	
61100106	6350L PT02 .002MM              Z TYPE RACK & PINION	

**CONNECTORS**

80200112	PT01 FEMALE CONNECTOR 6PIN	
80200113	PT02 BULKHEAD FEMALE 6PIN	
80200114	PT06 MALE CONNECTOR	
80200001	STRAIN RELIEF	
80200134	PT00P10-6S	

**RACK AND PINION SYSTEM PARTS**

66400210M	NOSE PIECE	
65000205	PINION	
66300613	SHAFT	
66400201	SPRING PLATES	
66600274	COUPLING BLACK FLEXIBLE VERSION	
66600276	COUPLING	
66200401	UPPER SEAL STRIP	
66200402	LOWER SEAL STRIP	

**SICOD RACK ENCODERS**

A6061	.01MM WITHOUT CABLE	
A60610	.01MM WITH 25FT CABLE	
A6062	.005MM WITHOUT CABLE	
A60620	.005MM WITH 25FT CABLE	
36000563	10" CABLE USED ON SICOD ENCODERS PRIOR TO 9/99	
36000038	25FT. CABLE USED WITH THE 10" CABLE ENCODERS	
36000599	25FT. CABLE EFFECTIVE 9/99.	

66600201	STEEL TAPE FOR ENDLESS TAPE SYSTEMS	
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# SERVICE PARTS BALLSCREWS AND MACHINE PARTS

PRICES SHOWN SUBJECT TO DEALER DISCOUNT UNLESS OTHERWISE SPECIFIED

**PART NUMBER****DESCRIPTION****X AXIS BALLSCREWS**

66600054M	42.3 INCH	
66600053M	48.3 INCH	
66600060	50.3 INCH	
66600052M	54.5 INCH	
66600051M	56.5 INCH	
66600057M	57.5 INCH	
66600058M	58.5 INCH	
66600046	60.5 INCH	
66600076	66.5 INCH	
	<b>SPECIAL X AXIS SCREWS</b>	
66600073	66.5 INCH SERIES 2 BRIDGEPORT SPECIAL REVERSED NUT 19MM END	
66600074	66.5 INCH SERIES 2 BRIDGEPORT SPECIAL FULL THREAD 19MM END	
66600075	60.5" FULL THREADED SPECIAL	

**Y AXIS BALLSCREWS**

66600047M	21 INCH	
66600048M	24 INCH	
66600045	28 INCH	
66600050	30 INCH	

**Z AXIS BALLSCREWS**

66600331	FOR PRESENT STYLE Z AXIS DOWNFEEDS UTILIZING SINGLE MACHINE CASTING	
66600331M	KIT FOR ORIGINAL DOWNFEEDS THAT WERE BOLTED TOGETHER USED ON EARLY CRUSADER 2 PRODUCTS	

**MACHINE PARTS****COMMON TO X AND Y AXIS DRIVE HOUSINGS**

67200188	HANDWHEEL (MOUNTS ON END OF SCREW)	
86600288	SPRINGS FOR HANDWHEEL HANDLE	
66300149	BEARING RETAINER	
66000123	THRUST BEARINGS 7204BYG	
66300127	SPROCKET ADAPTOR	
66300158	SPROCKET MOTOR PULLEY 14L050	
67200947	BUSHING TL 1108 X 1" USE WITH 67200948	
67200948	PULLEY TL21L050 USE WITH 67200947	

**MISCELLANEOUS PARTS**

66600113	RADIAL BEARING 6204ZZ X AXIS	
67200305	X AXIS BELT 210L050	
67201292	Y AXIS BELT EXTENDED HOUSING 345L050	
67200058	Y AXIS BELT ORIGINAL HOUSING 300L050	
31500650	LIMIT SWITCH 3 POSITION LATHEMATE VER.	
31500651	LIMIT SWITCH 1 POSITION STD	
80600126	TRIP DOGS FOR LIMIT SWITCHES	

**SERVICE PARTS  
BALLSCREWS AND MACHINE PARTS**

PRICES SHOWN SUBJECT TO DEALER DISCOUNT UNLESS OTHERWISE SPECIFIED

**PART NUMBER****DESCRIPTION****PARTS COMMON TO ALL Z AXIS DRIVES**

67200057	Z AXIS BELT	
66600111	BEARING KYK99R8	
66600118	BEARING CUP, TAPER ROLLER TIMKEN A2126	
66600119	BEARING CONE, TAPER ROLLER TIMKEN A2047	
67200056	MOTOR PULLEY 10L050	
67200511	UPPER BEARING RETAINER	
67200555	POINTER	
67200566	BUSHING 1/2"BORE TB1008	
67200567	PULLEY TL18L050	
80600040	LIMIT SWITCH. SPDT MINI	