

**ALL WATER SYSTEMS
ARE NOT THE SAME!**
**CRESTLINE[®], TEMPEST[®],
POWDER PRO[®]**
SIMPLY THE BEST



**EACH CRESTLINE IS DESIGNED AND
MANUFACTURED TO CARRY A SPECIFIC
AMOUNT OF WATER TO THE PLATE.**

Only the best components are used in **CRESTLINE** units. This minimizes the time you need to get the proper ink-water balance.



**EVERY TEMPEST IS DESIGNED USING
THERMISTOR TECHNOLOGY**

TEMPEST hot air dryers use ceramic coated semi conductors as their heat source instead of inferred bulbs. That's why the **TEMPEST** hot air dryer will never ignite your paper. As each sheet of paper passes by the **TEMPEST** it floats through a layer of heated air which accelerates ink drying.

**THE POWDER PRO METERS EXACT
AMOUNTS OF POWDER TO EACH SHEET**

As the powder is fluffed up in the **POWDER PRO** jar it is metered through a manifold. Then by even air pressure the **POWDER PRO** delivers a specific amount of powder to the sheet. This eliminates powder clumping and over or under spraying as the volume of powder changes in the jar.



**DEMAND THE VERY BEST.
CHOOSE **CRESTLINE, TEMPEST** AND
POWDER PRO as your next press
accessory.**

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CRESTLINE®, TEMPEST®, POWDER PRO®

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MANUFACTURER’S LIMITED WARRANTY

Crestline® and Altra Series®

Pamarco Global Graphics warrants to Owner that all parts and material used in the construction of the Crestline or Altra Series Dampener are free from any manufacturing defects. Pamarco shall repair or replace all defective parts and material (except rollers) for two (2) years from the date of installation. This limited warranty shall not cover labor, service and/or installation.

Powder Pro® Spraying System

Pamarco Global Graphics warrants to Owner that all parts and material used in the construction of the PowderPro sprayer are free from any manufacturing defects. Pamarco shall repair or replace all defective components (except pumps) for two (2) years from the date of installation. Pamarco shall repair or replace all defective pumps for a period of 1 year following date of installation. This limited warranty shall not cover labor, service and/or installation.

Tempest® Hot Air Drying System

Pamarco Global Graphics warrants to Owner that all parts and material used in the construction of the Tempest dryer are free from any manufacturing defect. Pamarco shall repair or replace with equal or like product all defective parts and materials for a period of one (1) year from date of installation. This limited warranty shall not cover labor, service and/or installation.

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Effective date, April 1, 2012
Specifications and prices are subject to change without notice.

PRINTED IN USA

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www.pamarcoglobal.com

**ORIGINAL DAHLGREN ROLLERS and PARTS for:
A.B. DICK, HAMADA, HEIDELBERG, MULTI, RYOBI,
& TOKO**

Dahlgren Part No.	Description
60080100-00	FORM ROLL RY2800 (RUBBER)
60080102-00	FORM ROLL AB375 (RUBBER)
60080114-00	FORM ROLL AB DICK 385
60080137-00	FORM ROLLER AB3985C, RY 3302M (RUBBER)
60090139-00	TRANS.ROLL AB3985C (RUBBER)
60090139W-00	TRANSFER ROLLER - RYOBI 3302
60100106-00	METER ROLL AB375 (RUBBER)
60100114-00	METER ROLL AB385 (RUBBER)
60100136-00	TRANS. ROLL 9800C (RUBBER)
60290102-43	CLUTCH GEAR (43T)
60300100-26	T.R. GEAR (26T) (ALL)
60300100-38	M.R. GEAR (38T) (ALL)
60330101-18	M,R. DRIVE GEAR (18T) (ALL)
60330103-19	F,R. DRIVE GEAR (19T) AB/RV
60330105-01	MOTOR HUB GEAR BOSTON G1044
60330118-19	F,R. DRIVE GEAR,METRIC "B" RY
60330121-01	CLUTCH GEAR AB3985C (54T)
60350100-01	CLUSTER GEAR - 15T x 19T
60350104-01	CLUSTER GEAR "A" (18T x 19T)
60550253-01	FOLLOWER, 3985 / 3302
60710135-01	FOLLOWER, FLAT TOP
60710141-01	CAM, OSCILLATOR
60710142-01	FOLLOWER, ROUND TOP
60710146-10	OSC. ROLL AB375
60710189-10	OSC. ROLL AB3985C-11
60710279-01	FOLLOWER, BEARING TOP STYLE
92000460-00	BEARING, BALL SKF 6000-2RS
92100710-05	BUSHING, BRONZE (BOSTON B710-5)
92130068-06	BUSHING, BOSTON ONLY, FB68-6
92130068-08	BUSHING, BOSTON ONLY FB-68-8
92210003-05	CLUTCH (KK-17/ZZ-6203M)
94400011-10	MOTOR, BALDOR SPEC. # 30532-A or 23A471Z208G1
94410002-15	CONTROL - 240V MINARIK SQ216U
94410002-16	CONTROL - 120V RD16U MINARIK
96001139-45	BALL PLUNGER 1/4-20
96060103-08	ROLL PIN 3/32 x 1/2 LG.
96060103-12	ROLL PIN 3/32 X 3/4 LG.
96060104-11	ROLL PIN 1/8 x 11/16 OSC.
96099999-50	SPRING, EXTENSION #682
96100121-03	SPRING LEE #LC-042C-3
96100121-09	COMPRESSION SPRING LC 042C-5
96100140-01	SPRING, LEE LC-042G-1-M
97990100-01	MOTOR BRUSH (FITS BALDOR MOTOR 30532) (BP5066P01)
97990100-02	MOTOR WORM GEAR BALDOR BWM 1836
97990100-05	MOTOR BRUSH (FITS BALDOR MOTOR 23A471Z208G1)
97990100-15	GEAR W/ SHAFT ASSY. BGS 00663

CRESTLINE WATER UNITS

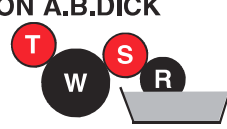
CRESTLINE DAMPENING UNITS FOR A.B.DICK, DIDDE, HAMADA, HEIDELBERG, AND RYOBI



Crestline Part No.	Description
A.B.DICK	
AGCDSAB980	A.B. DICK 9810 - 9850
AGCDSAB980THSW	A.B.DICK 9800 T-HEAD SWING AWAY
AGCDSAB987	A.B. DICK 9870
AGCDSAB987D	A.B. DICK 9870D
AGCDSAB9900	A.B.DICK 9900
AGCDSRY332OSC	A.B. DICK 9985 (per set)
AGCDSRY3302H	A.B. DICK 9995 (per set)
Additional guards required for presses with T-51 second color heads.	
DIDDE	
AGCSDSD1850	DIDDE 8.5
AGCSDDIMCP	DIDDE MCP
HAMADA	
AGCDSHM470	HAMADA E-47
AGCDSHM47SOSC	HAMADA 775/E47S SATELLITE ALTRA
AGCDSHM600	HAMADA 600
AGCDSHM665OSC	HAMADA 665 SATELLITE
AGCDSHM700	HAMADA 700
AGCDSHMC248	HAMADA C248 MOLLATEN (discontinued)
AGCDSHMSU47	HAMADA SU 47 PARENT
HEIDELBERG	
AGCDSHE460OSC	HEIDELBERG GTO 46
AGCDSHE520OSC	HEIDELBERG GTO 52
RYOBI	
AGCDSRY280	RYOBI 2800/ITEK 960
AGCDSRY280THSW	RYOBI 280 T-HEAD SWING AWAY / AE
AGCDSRY320	RYOBI 3200/ITEK 975 (presses with serial number before 10239)
AGCDSRY320E	RYOBI 3200 EXTENDED (presses with serial number after 10239)
AGCDSRY320THSW	RYOBI 3200 T-HEAD SWING AWAY / AE
AGCDSRY32M	RYOBI 3200MCD/ITEK 985
AGCDSRY3302H	RYOBI 3302H ALTRA (set of 2)
AGCDSRY3304H	RYOBI 3304H ALTRA (set of 4)
AGCDSRY3302OSC	RYOBI 3302M ALTRA (set of 2)

NOTE: For models not listed call for availability
847-459-6000

ORIGINAL CRESTLINE PARTS for A.B.DICK & T-51 ON A.B.DICK



FOUR ROLL SYSTEM
A.B. DICK



SIX ROLL SYSTEM
A.B. DICK T-51

Crestline
Cat. No. Key ● Soft Rubber Roll Description ● Hard Rubber Roll

A.B. DICK 350/360 4 ROLL WATER UNIT

After serial #9008-02426 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0101	W	FORM ROLLER, Soft (w/ roll pin)
X07-0318NS	R	PAN ROLLER Soft
X07-0401	T	OSCILLATOR ROLLER Hard
XSA-070201NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, sleeves)
X06-108	—	SIDE FRAME BEARINGS (After Serial# 9304-10195) (Requires qty. 4)
X06-346038	—	SIDE FRAME THIN FLANGED BUSHING (Before Serial# 9304-10195) Requires qty. 2)

A.B. DICK 375 4 ROLL WATER UNIT

After serial #9008-02379 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0104	W	FORM ROLLER Soft (w/ roll pin)
X07-0303NS	R	PAN ROLLER Soft
X07-0403	T	OSCILLATOR ROLLER Hard
XSA-070203NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, sleeves)
X06-108	—	SIDE FRAME BEARING Sealed Ball Bearing (After Serial# 9304-10195) (Requires qty. 4)
X06-246038	—	SIDE FRAME Thick Flanged Bushing (Before Serial #9304-10195) (Requires qty. 2)
X06-346038	—	SIDE FRAME Thin Flanged Bushing (Before Serial #9304-10195) (Requires qty. 2)

A.B. DICK 8800 4 ROLL WATER UNIT

After serial #9008-02426 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0101	W	FORM ROLLER Soft (w/ roll pin)
X07-0318NS	R	PAN ROLLER Soft
X07-0401	T	OSCILLATOR ROLLER Hard
XSA-070201NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, sleeves)
X06-108	—	SIDE FRAME BEARING Sealed Ball Bearing (After Serial# 9211-8555) (Requires qty. 4)
X06-346038	—	SIDE FRAME Thin Flanged Bushing (Before Serial #9211-8555) (Requires qty. 4)

A.B. DICK 9800 / 9900 4 ROLL WATER UNIT

After serial #9008-02379 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0104	W	FORM ROLLER Soft (w/ roll pin)
X07-0303NS	R	PAN ROLLER Soft
X07-0403	T	OSCILLATOR ROLLER Hard
XSA-070203NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, sleeves)
X06-108	—	SIDE FRAME BEARING Sealed Ball Bearing (After Serial# 9211-8555) (Requires qty. 4)
X06-346038	—	SIDE FRAME Thin Flanged Bushing (Before Serial #9211-8555) (Requires qty. 2)

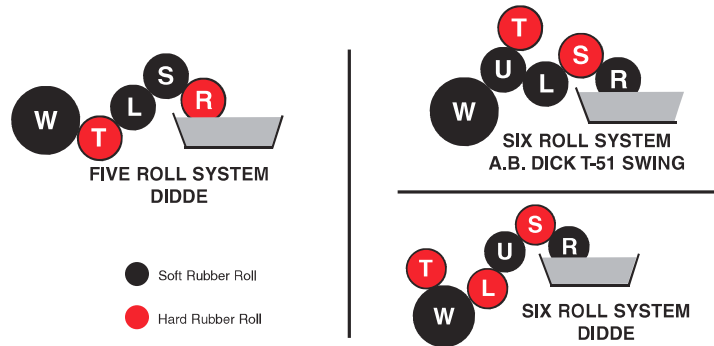
A.B. DICK 360 T-51 STATIONARY T-HEAD 6 ROLL WATER UNIT

X07-51110	W	FORM ROLLER Soft
X07-0322NS	R	PAN ROLLER Soft
X07-0420	T	OSCILLATOR ROLLER Hard
XSA-0702360TH	S	METERING ROLLER ASSY, Hard
XSA-070517	U	UPPER INTERMEDIATE ASSY, Soft (Roller, shaft, snap ring)
X07-51151	L	LOWER INTERMEDIATE Soft

A.B. DICK 9800 T-51 STATIONARY T-HEAD 6 ROLL WATER UNIT

X07-51710	W	FORM ROLLER Soft
X07-0325NS	R	PAN ROLLER Soft
X07-0422	T	OSCILLATOR ROLLER Hard
XSA-070298TH	S	METERING ROLLER ASSY, Hard
XSA-070521	U	UPPER INTERMEDIATE ASSY, Soft (Roller, shaft, snap ring)
X07-51750	L	LOWER INTERMEDIATE Soft

ORIGINAL CRESTLINE PARTS for A.B. DICK & DIDDE



Crestline
Cat. No. Key Description

A.B. DICK 9800 T-51 SWING AWAY T-HEAD 6 ROLL WATER UNIT

X07-51710	W	FORM ROLLER Soft
X07-0325NS	R	PAN ROLLER Soft
X07-0405	T	OSCILLATOR ROLLER Hard
XSA-070298SW	S	METERING ROLLER ASSY. Hard (Roller, shaft, snap ring, collar, roll pin)
XSA-070522	U	UPPER INTERMEDIATE ASSY. Soft (Roller, shaft, snap ring)
X07-51750	L	LOWER INTERMEDIATE Soft

DIDDE 8.5 OLD STYLE 6 ROLL WATER UNIT

X07-0126	W	FORM ROLLER, Soft (w/ roll pin)
X07-0328	R	PAN ROLLER Soft
X07-0404	T	OSCILLATOR ROLLER Hard
XSA-07D1850	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070528	U	UPPER INTERMEDIATE ASSY. Soft
XSA 070527	L	LOWER INTERMEDIATE Hard
X06-108	—	SIDE FRAME BEARINGS (4 per dampener)
X06-246063	—	FLANGED BUSHING, DRIVE SHAFT (Requires qty. 2)

DIDDE 8.5 ALTRA 5 ROLL WATER UNIT

X07-0133	W	FORM ROLLER Soft
X07-0353	R	PAN ROLLER Hard
X07-0429	T	OSCILLATOR ROLLER Hard
XSA-070242	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, sleeves)
XSA-070537	L	INTERMEDIATE ASSY. Soft
X06-142	—	SEALED BALL BEARING
X06-153	—	SEALED BALL BEARING

DIDDE 11/17 OLD STYLE 5 ROLL WATER UNIT

X07-0133	W	FORM ROLLER Soft
X07-0337	R	PAN ROLLER Hard
X07-0429	T	OSCILLATOR ROLLER Hard
XSA-070238	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, collar)
XSA-070531	L	INTERMEDIATE ASSY. Soft
X06-108	—	SIDE FRAME BEARING Sealed Ball Bearing (Requires qty. 2)
X06-107	—	SEALED BALL BEARING (Pan Shaft Requires qty. 2)
X06-103	—	SEALED BALL BEARING (Pivot Requires qty. 2)
X06-100	—	SEALED BALL BEARING (Form Roll Requires qty. 2)

DIDDE 11/17 ALTRA 5 ROLL WATER UNIT

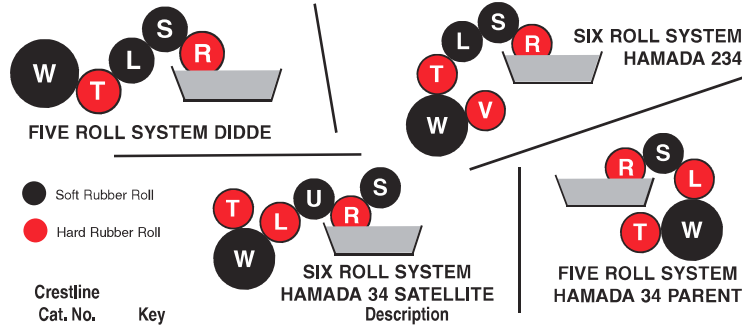
X07-0158	W	FORM ROLLER Soft
X07-0353	R	PAN ROLLER Hard
X07-0429	T	OSCILLATOR ROLLER Hard
XSA-070242	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, collar)
XSA-070537	L	INTERMEDIATE ASSY. Soft
X06-101	—	SEALED BALL BEARING (Pan Shaft Requires qty. 2)
X06-100	—	SEALED BALL BEARING (Form Roll Requires qty. 2)

DIDDE MINICOM, MCP OLD STYLE 5 ROLL UNIT

X07-0136	W	FORM ROLLER Soft
X07-0337	R	PAN ROLLER Hard
X07-0434	T	OSCILLATOR ROLLER Hard
XSA-070238	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, collar)
X07-0520	L	INTERMEDIATE ASSY. Soft
X06-108	—	SIDE FRAME BEARING Sealed Ball Bearing (Requires qty. 2)
X06-107	—	SEALED BALL BEARING (Pan Shaft Requires qty. 2)
X06-102	—	SEALED BALL BEARING (Pivot Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for DIDDE & HAMADA



DIDDE MINICOM, MCP ALTRA 5 ROLL UNIT

X07-0136	W	FORM ROLLER Soft
X07-0353	R	PAN ROLLER Hard
X07-0434	T	OSCILLATOR ROLLER Hard
XSA-070242	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, collar)
XSA-070537	L	INTERMEDIATE ASSY. Soft
X06-101	—	SEALED BALL BEARING (Pan Shaft Requires qty. 2)
X06-130	—	SEALED BALL BEARING (Form Roll Requires qty. 2)

HAMADA 234 6 ROLL WATER UNIT

X07-0144	W	FORM ROLLER, Soft
XSA-070351	R	PAN ROLLER Hard
X07-0445	T	OSCILLATOR ROLLER Hard
XSA-070241	S	METERING ROLLER ASSY. Soft (Roller, shaft, snap rings)
XSA-070532	L	INTERMEDIATE ASSY. Soft (Roller, shaft, collars)
X07-0446	V	RIDER ROLLER Hard
X06-113	—	SIDE FRAME SEALED BALL BEARINGS (Requires qty. 2)
X06-101	—	SEALED BALL BEARING (Pan Roller Requires qty. 2)
X06-136	—	SEALED BALL BEARING (Pivot Requires qty. 2)

HAMADA RS34/VS34 PARENT, DU34 UPPER 5 ROLL WATER UNIT

X07-0143	W	FORM ROLLER Soft
X07-0350	R	PAN ROLLER Hard
X07-0442	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070538	S	METERING ROLLER ASSY. Soft (Shaft, bearings, snap rings, roll pins)
XSA-070533	L	INTERMEDIATE ASSY. Hard (Shaft, bearings, snap rings, roll pins)
X06-113	—	SEALED BALL BEARING (Side Frame Requires qty. 4)
X06-101	—	SEALED BALL BEARING (Pivot Requires qty. 2)

HAMADA RS34/VS34 SATELLITE, DU 34 LOWER 6 ROLL UNIT

X07-0143	W	FORM ROLLER Soft
X07-0350	R	PAN ROLLER Hard
X07-0444	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070240	S	METERING ROLLER ASSY. Soft (Shaft, washers, snap rings, roll pins)
XSA-070538	U	UPPER INTERMEDIATE ASSY. Soft (Shaft, bearings, snap ring, roll pins)
XSA-070533	L	LOWER INTERMEDIATE Hard (Shaft, bearings, snap rings, roll pins)
X06-113	—	SEALED BALL BEARING (Side Frame Requires qty. 4)
X06-101	—	SEALED BALL BEARING (Pivot Requires qty. 2)

HAMADA RS34/VS34 PARENT, DU34 UPPER PHASE II - 5 ROLL

X07-0143	W	FORM ROLLER Soft
X07-0350	R	PAN ROLLER Hard
X07-0444	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070538	S	METERING ROLLER ASSY. Soft (Shaft, bearings, snap rings, roll pins)
XSA-070533	L	INTERMEDIATE ASSY. Hard (Shaft, bearings, snap rings, roll pins)
X06-113	—	SEALED BALL BEARING (Side Frame Requires qty. 4)
X06-101	—	SEALED BALL BEARING (Pivot Requires qty. 2)

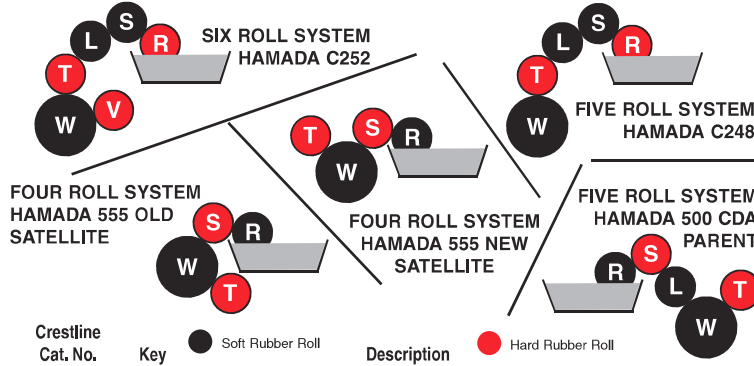
HAMADA RS/VS34 SATELLITE, DU34 LOWER PHASE II - 6 ROLL

On the DU34 Lower Phase II there is no Upper Intermediate roller, and the Metering roller is XSA-070538

X07-0143	W	FORM ROLLER Soft
X07-0350	R	PAN ROLLER Hard
X07-0444	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070240	S	METERING ROLLER ASSY. Soft (Shaft, washers, snap rings, roll pins)
XSA-070538	U	UPPER INTERMEDIATE ASSY. Soft (Shaft, bearings, snap ring, roll pins)
XSA-070533	L	LOWER INTERMEDIATE Hard (Shaft, bearings, snap rings, roll pins)
X06-113	—	SEALED BALL BEARING (Side Frame Requires qty. 4)
X06-101	—	SEALED BALL BEARING (Pivot Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for HAMADA



HAMADA C248 5 ROLL WATER UNIT

Crestline Cat. No.	Key	Description
X07-0145	W	FORM ROLLER Soft (w/ roll pin)
XSA-070330	R	PAN ROLLER Hard
X07-0439*	T	AUXILIARY OSCILLATOR ROLLER Hard
XSA-070228	S	METERING ROLLER ASSY, Soft (Roller, shaft, bearings, snap rings)
XSA-070529	L	INTERMEDIATE ASSY, Soft (Roller, shaft, bearings, collars)
X06-111	—	SIDE FRAME BEARING Sealed Ball Bearing (Requires qty. 2)
X06-112	—	SEALED BALL BEARING (Pan Roller Requires qty. 2)

*Large gear driven oscillator must be purchased from Hamada.

HAMADA C252 6 ROLL WATER UNIT

Crestline Cat. No.	Key	Description
X07-0146	W	FORM ROLLER Soft
XSA-070354	R	PAN ROLLER Hard
X07-0448	T	OSCILLATOR ROLLER Hard
XSA-070220OSC	S	METERING ROLLER ASSY, Soft (Roller, shaft, bearings, snap rings)
XSA-070515OSC	L	INTERMEDIATE ASSY, Soft (Roller, shaft, bearings, collars)
X07-0603	V	AUXILIARY RIDER ROLLER Hard
X06-111	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-112	—	SEALED BALL BEARING (Pan Roller Requires qty. 2)
X06-113	—	SEALED BALL BEARING (Water Form Roller Requires qty. 2)

HAMADA 500 CDA PARENT 5 ROLL WATER UNIT

After serial #9012-03267 all units have a soft Pan, and a hard Metering. Units with earlier serial numbers must be upgraded

Crestline Cat. No.	Key	Description
X07-0118	W	FORM ROLLER Soft
X07-0308NS	R	PAN ROLLER Soft
X07-0408	T	OSCILLATOR ROLLER Hard
XSA-070209NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, collars)
XSA-070514	L	INTERMEDIATE ASSY, Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-346038	—	THIN FLANGED BUSHING (Requires qty. 2) // 4 per unit before serial number 9211-08645
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 555 OLD STYLE SATELLITE 4 ROLL WATER UNIT

After serial #9012-03267 all units have a soft Pan, and a hard Metering. Units with earlier serial numbers must be upgraded

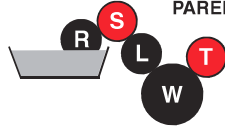
Crestline Cat. No.	Key	Description
X07-0119	W	FORM ROLLER Soft
X07-0312NS	R	PAN ROLLER Soft
X07-0412	T	OSCILLATOR ROLLER Hard
XSA-070213NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING Side Frame (After serial number 911-08613) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING (Before serial number 9111-08613) Side Frame (Requires qty. 4)

HAMADA 555 NEW STYLE SATELLITE 4 ROLL WATER UNIT

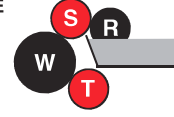
Crestline Cat. No.	Key	Description
X07-0125	W	FORM ROLLER Soft
X07-0306	R	PAN ROLLER Soft
X07-0436	T	OSCILLATOR ROLLER Hard
XSA-070205	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-138	—	SEALED BALL BEARING Tie Bar lift shaft (Requires qty. 2)
X06-103	—	SEALED BALL BEARING End of Pan Roller (Requires qty. 2)

ORIGINAL CRESTLINE PARTS for HAMADA

FIVE ROLL SYSTEM HAMADA
600, 611/612, & 611/612 E
PARENT



FOUR ROLL SYSTEM
HAMADA 661/662,
& 661/662 E
SATELLITE



● Soft Rubber Roll

● Hard Rubber Roll

Crestline
Cat. No.

Key

Description

HAMADA 611/612 PARENT 5 ROLL WATER UNIT

After serial #9012-03267 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0117	W	FORM ROLLER Soft
X07-0315NS	R	PAN ROLLER Soft
X07-0415	T	OSCILLATOR ROLLER Hard (After serial number 9304-10172)
X07-0408	T	OSCILLATOR ROLLER Hard (Before serial number 9304-10172)
XSA-070216NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070504	L	INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-346038	—	THIN FLANGED BUSHING (Requires qty. 2) // 4 per unit before serial number 9211-08645
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 611/612 E SERIES PARENT 5 ROLL WATER UNIT

After serial #9012-03267 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0116	W	FORM ROLLER Soft
X07-0315NS	R	PAN ROLLER Soft
X07-0415	T	OSCILLATOR ROLLER Hard
XSA-070216NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070509	L	INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08645) Side Frame (Requires qty. 2)
X06-246038	—	THIN FLANGED BUSHING (Requires qty. 2) // 4 per unit before serial number 9211-08645
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 661/662 SATELLITE 4 ROLL WATER UNIT

X07-0120	W	FORM ROLLER, Soft (w/ roll pin)
X07-0319	R	PAN ROLLER Soft
X07-0417	T	OSCILLATOR ROLLER Hard
XSA-070218NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08613) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9211-08613 (Requires qty. 4)
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 661/662 E SATELLITE 4 ROLL WATER UNIT

X07-0121	W	FORM ROLLER, Soft (w/ roll pin)
X07-0319	R	PAN ROLLER Soft
X07-0418	T	OSCILLATOR ROLLER Hard
XSA-070218NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08613) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9211-08613 (Requires qty. 4)
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 600 PARENT 5 ROLL UNIT

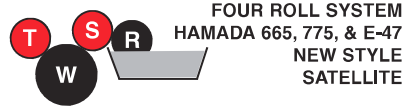
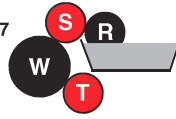
After serial #9012-03267 (Parent Only) have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0117	W	FORM ROLLER Soft
X07-0308NS	R	PAN ROLLER Soft
X07-0408	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070209NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070504	L	INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08645) Side Frame (Requires qty. 2)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9211-08645 (*Requires qty. 4) // after (Requires qty. 2)
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for HAMADA

FOUR ROLL SYSTEM
HAMADA 665, 775, & E-47
OLD STYLE SATELLITE



FIVE ROLL SYSTEM
HAMADA 700/E-47
PARENT



Crestline
Cat. No. Key Description

● Soft Rubber Roll ● Hard Rubber Roll

HAMADA 665 OLD STYLE SATELLITE 4 ROLL UNIT

After serial #9012-03267 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0113	W	FORM ROLLER Soft
X07-0312NS	R	PAN ROLLER Soft
X07-0412	T	OSCILLATOR/BRIDGE ROLLER Hard
XSA-070213NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING (After serial number 9111-08613) Side Frame (Requires qty. 4)
X06-246038	—	THIN FLANGED BUSHING Before serial number 9111-08613 (Requires qty. 4)

°Dampener has silver side frames

HAMADA 665 NEW STYLE SATELLITE 4 ROLL WATER UNIT

X07-0107	W	FORM ROLLER Soft
XSA-070306	R	PAN ROLLER Soft
X07-0437	T	AUXILIARY OSCILLATOR ROLLER Hard
XSA-070205	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-138	—	SEALED BALL BEARING Tie Bar lift shaft (Requires qty. 2)
X06-103	—	SEALED BALL BEARING Pan Roller ends (Requires qty. 2)

°Dampener has black side frames

*Large gear driven oscillator must be purchased from Hamada.

HAMADA 700 / E-47 PARENT 5 ROLL WATER UNIT

After serial #9015-04273 (Parent only) have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0110	W	FORM ROLLER Soft
X07-0309NS	R	PAN ROLLER Soft
X07-0409	T	OSCILLATOR ROLLER Hard
XSA-070210NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, collars)
XSA-070505	L	INTERMEDIATE ASSY. Soft (Roller, shaft, collars, roll pins)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-346038	—	THIN FLANGED BUSHING (Requires qty. 2) // 4 per unit before serial number 9211-08645
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

HAMADA 775 / E-47S OLD STYLE SATELLITE 4 ROLL UNIT

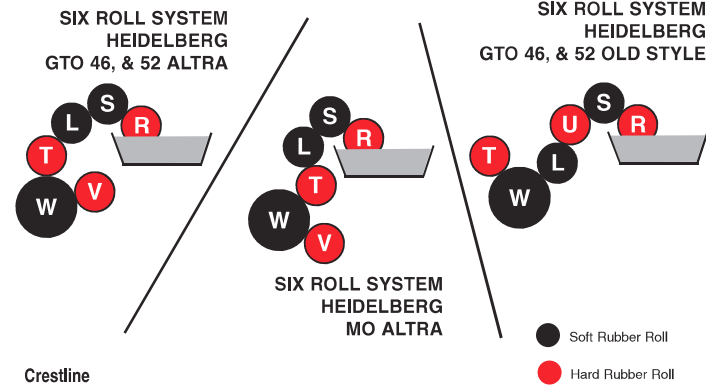
X07-0114	W	FORM ROLLER Soft
X07-0313NS	R	PAN ROLLER Soft
X07-0413	T	OSCILLATOR ROLLER Hard
XSA-070214NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING After serial number 9111-08613 Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9111-08613 Side Frame (Requires qty. 4)

HAMADA 775 / E-47S NEW STYLE SATELLITE 4 ROLL UNIT

X07-0142	W	FORM ROLLER Soft
XSA-070349	R	PAN ROLLER Soft
X07-0438	T	OSCILLATOR ROLLER Hard
XSA-070206	S	METERING ROLLER ASSY, Hard (Roller, shaft, e-clips)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-138	—	SEALED BALL BEARING Tie Bar lift shaft (Requires qty. 2)
X06-103	—	SEALED BALL BEARING End of Pan Roller (Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for HEIDELBERG



Crestline
Cat. No. Key Description

HEIDELBERG GTO 46 OLD STYLE 6 ROLL WATER UNIT

XSA-070140	W	FORM ROLLER ASSY. Soft (Roller gears keys)
X07-0316	R	PAN ROLLER Hard
X07-0416	T	OSCILLATOR ROLLER Hard
XSA-070217	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings collars)
XSA-070510	L	LOWER INTERMEDIATE Hard (Roller, shaft, bearings, collars, roll pins)
XSA-070511	U	UPPER INTERMEDIATE Soft (Roller, shaft, bearings, collars, roll pins)
X06-107	—	SEALED BALL BEARING Form & Pan Rollers

HEIDELBERG GTO 46 ALTRA 6 ROLL WATER UNIT

X07-0131	W	FORM ROLLER ASSY. Soft
X07-0316	R	PAN ROLLER Hard
X07-0427	T	OSCILLATOR ROLLER Hard
XSA-070217OSC	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings collars)
XSA-070511OSC	L	INTERMEDIATE Soft (Roller, shaft, bearings, collars, roll pins)
XSA-070611	V	AUX RIDER Hard
X06-107	—	SEALED BALL BEARING Form & Pan Rollers

HEIDELBERG GTO 52 OLD STYLE 6 ROLL WATER UNIT

XSA-070141	W	FORM ROLLER ASSY. Soft (Roller gears keys)
X07-0320	R	PAN ROLLER Hard
X07-0419	T	OSCILLATOR ROLLER Hard
XSA-070220	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings collars)
XSA-070516	L	LOWER INTERMEDIATE Hard (Roller, shaft, bearings, collars, roll pins)
XSA-070515	U	UPPER INTERMEDIATE Soft (Roller, shaft, bearings, collars, roll pins)
X06-107	—	SEALED BALL BEARING Form & Pan Rollers

HEIDELBERG GTO 52 ALTRA 6 ROLL WATER UNIT

X07-0130	W	FORM ROLLER Soft
X07-0320	R	PAN ROLLER Hard
X07-0426	T	OSCILLATOR ROLLER Hard
XSA-070220OSC	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings snap rings)
XSA-070515OSC	L	INTERMEDIATE Soft (Roller, shaft, bearings, collars, roll pins)
XSA-070612	V	AUX RIDER Hard
XSA-070441	—	AUX RIDER KIT (Bracket & spring assembly)

Special Notation!!! These part numbers apply to all models with serial number 9302-09604 and higher except as follows:

9303-09553	9303-09642 to 9303-09645
9303-09804 to 9303-09807	9306-10605
9306-10606	9307-10864

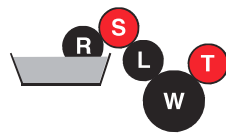
HEIDELBERG MO ALTRA 6 ROLL WATER UNIT

X07-0137	W	FORM ROLLER, Soft
X07-0339	R	PAN ROLLER Hard
X07-0433	T	OSCILLATOR ROLLER Hard
X07-0236	S	METERING ROLLER Soft
X07-0534	L	INTERMEDIATE Soft
X07-0609	J	BRIDGE ROLLER Hard (Roller, shaft, bearings, collars, roll pins)
X06-101	—	SEALED BALL BEARING Metering, Intermediate & Bridge rollers
X06-113	—	SEALED BALL BEARING Form roller

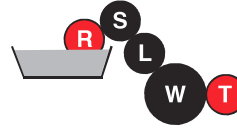
CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for MULTILITH, & TOKO

FIVE ROLL SYSTEM
MULTI1250, 1360,
1650,1850, & 1960



FIVE ROLL SYSTEM
MULTI 1218, & TOKO 4700



● Soft Rubber Roll

● Hard Rubber Roll

Crestline
Cat. No.

Key

Description

MULTI 1250 SINGLE & DUAL LEVER 5 ROLL WATER UNIT

After serial #9108-04806 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0112	W	FORM ROLLER Soft (with set collar)
X07-0311NS	R	PAN ROLLER Soft (with set collar)
X07-0411	T	OSCILLATOR ROLLER Hard
XSA-070212NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, clips bearings, collars)
XSA-070507	L	INTERMEDIATE ASSY,Soft (Roller, shaft, clips, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9206-07319) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9206-07319 Side Frame (Requires qty. 4)

MULTI 1360/1650 5 ROLL WATER UNIT

All units have a soft Pan, and a hard Metering.
Units with old style rollers must be upgraded

X07-0115A	W	FORM ROLLER Soft
X07-0314NS	R	PAN ROLLER Soft
X07-0414A	T	OSCILLATOR ROLLER Hard
XSA-070215NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, clips, collars)
XSA-070508A	L	INTERMEDIATE ASSY,Soft (Roller, shaft, clips, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9206-07319) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING (Before serial number 9206-07319) Side Frame (Requires qty. 4)

MULTI 1850 5 ROLL WATER UNIT

X07-0110	W	FORM ROLLER Soft
X07-0309NS	R	PAN ROLLER Soft
X07-0409	T	OSCILLATOR ROLLER Hard
XSA-070210NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, collars)
XSA-070505	L	INTERMEDIATE ASSY,Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08645) Side Frame (Requires qty. 2)
X06-246038	—	THIN FLANGED BUSHING (After serial number 9211-08645) Side Frame (Requires qty. 2)
X06-246038	—	THIN FLANGED BUSHING (Before serial number 9211-08645) Side Frame (Requires qty. 4)

MULTI 1960 5 ROLL WATER UNIT

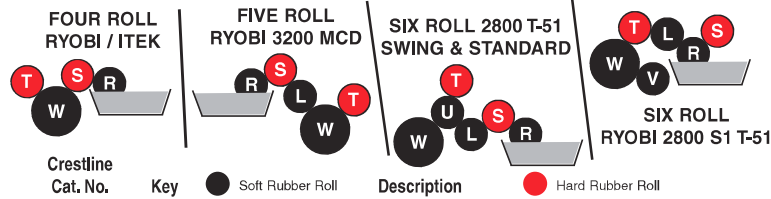
X07-0110	W	FORM ROLLER Soft
X07-0309NS	R	PAN ROLLER Soft
X07-0409	T	OSCILLATOR ROLLER Hard
XSA-070210NS	S	METERING ROLLER ASSY, Hard (Roller, shaft, bearings, collars)
XSA-070505	L	INTERMEDIATE ASSY,Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 4)

MULTI 1218 /TOKO 4700 5 ROLL WATER UNIT

X07-0111	W	FORM ROLLER Soft
X07-0310	R	PAN ROLLER Hard
X07-0415	T	OSCILLATOR ROLLER Hard
XSA-070211	S	METERING ROLLER ASSY, Soft (Roller, shaft, bearings, collars)
XSA-070506	L	INTERMEDIATE ASSY, Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9304-09982) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9304-09982 Side Frame (Requires qty. 4)
X06-324031	—	FLANGED BUSHING (Requires qty. 2)
X06-103	—	SEALED BALL BEARING Pivot (Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for RYOBI / ITEK, & T51



RYOBI 2700 / 2800 ITEK 950 / 960 4 ROLL WATER UNIT

After serial #9008-02409 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0102	W	FORM ROLLER Soft
X07-0301NS	R	PAN ROLLER Soft
X07-0401	T	OSCILLATOR ROLLER Hard
XSA-070201NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, sleeves)
X06-108	—	SEALED BALL BEARING After serial number 9212-0895 Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9304-10195 Side Frame (Requires qty. 4)

RYOBI 2800 T-51 STATIONARY T HEAD 6 ROLL WATER UNIT

X07-51113	W	FORM ROLLER ASSY. Soft
X07-0323NS	R	PAN ROLLER Soft
X07-0401	T	OSCILLATOR ROLLER Hard
XSA-070221NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars, roll pin)
X07-51120	L	LOWER INTERMEDIATE Soft
XSA-070518	U	UPPER INTERMEDIATE Soft (Roller, shaft, collars)

RYOBI 2800 T-51 SWING-AWAY T HEAD 6 ROLL WATER UNIT

X07-51113	W	FORM ROLLER ASSY. Soft
X07-0323NS	R	PAN ROLLER Soft
X07-0401	T	OSCILLATOR ROLLER Hard
XSA-070221NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars, roll pin)
X07-51120	L	LOWER INTERMEDIATE Soft
XSA-070518SW	U	UPPER INTERMEDIATE Soft (Roller, shaft, collars)

RYOBI 2800 S1 T HEAD 6 ROLL WATER UNIT

X07-0161	W	FORM ROLLER Soft
X07-0365	R	PAN ROLLER Soft
X07-0460	T	OSCILLATOR ROLLER Hard
XSA-07023	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings sleeves)
XSA-07021	L	INTERMEDIATE ASSY. Hard
XSA-07022	V	RIDER ROLLER ASSY. Soft
X06-107	—	SEALED BALL BEARING Side Frame

RYOBI 3200 / ITEK 975 4 ROLL WATER UNIT

After serial #9008-02468 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0103	W	FORM ROLLER Soft
X07-0302NS	R	PAN ROLLER Soft
X07-0402	T	OSCILLATOR ROLLER Hard
XSA-070202NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings sleeves)
X06-108	—	SEALED BALL BEARING (After serial number 9212-08950) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9304-08950 Side Frame (Requires qty. 4)

RYOBI 3200E 4 ROLL WATER UNIT

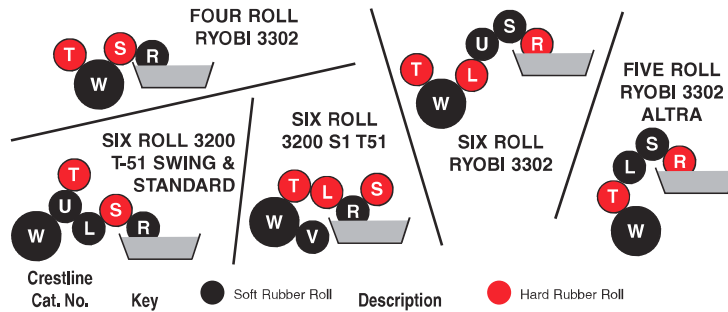
X07-0106	W	FORM ROLLER, Soft
X07-0352	R	PAN ROLLER Soft
X07-0403	T	OSCILLATOR ROLLER Hard
XSA-070243	S	METERING ROLLER Hard (Roller, shaft, bearings sleeves)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 4)

RYOBI 3200 MCD / ITEK 985 5 ROLL WATER UNIT

After serial #9010-02735 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0106	W	FORM ROLLER Soft
XSA-070305NS	R	PAN ROLLER Soft
X07-0405	T	OSCILLATOR ROLLER Hard
XSA-070208NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070501NS	L	INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pins)
X06-108	—	SEALED BALL BEARING (After serial number 9301-0000) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING Before serial number 9301-0000 Side Frame (Requires qty. 4)

ORIGINAL CRESTLINE PARTS for RYOBI



RYOBI 3200 / 3200MCD T-51 STATIONARY 6 ROLL WATER UNIT

X07-51713	W	FORM ROLLER Soft
X07-0325NS	R	PAN ROLLER Soft
X07-0403	T	OSCILLATOR ROLLER Hard
XSA-070222NS32	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars, roll pins)
X07-51720	L	LOWER INTERMEDIATE Soft
XSA-070520	U	UPPER INTERMEDIATE ASSY. Soft (Roller, shaft, collars)

RYOBI 3200 / 3200MCD T-51 SWING-AWAY 6 ROLL WATER UNIT

X07-51713	W	FORM ROLLER Soft
X07-0325NS	R	PAN ROLLER Soft
X07-0403	T	OSCILLATOR ROLLER Hard
XSA-070222NS32	S	METERING ROLLER ASSY. Hard (Roller, shaft, collars, roll pins)
X07-51720	L	LOWER INTERMEDIATE Soft
XSA-070520SW	U	UPPER INTERMEDIATE ASSY. Soft (Roller, shaft, collars)

RYOBI 3200 S1 T HEAD 6 ROLL WATER UNIT

X07-0153	W	FORM ROLLER Soft
X07-0361	R	PAN ROLLER Soft
X07-0455	T	OSCILLATOR ROLLER Hard
XSA-07009	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, sleeves)
XSA-07008	L	INTERMEDIATE ASSY. Hard
XSA-07007	V	RIDER ROLLER ASSY. Soft
X06-107	—	SEALED BALL BEARING Side Frame
X06-246038	—	THIN FLANGED BUSHING (After serial number 9211-08645) Side Frame (Requires qty. 2)

RYOBI 3302M 4 ROLL WATER UNIT

After serial #9006-02079 all units have a soft Pan, and a hard Metering.
Units with earlier serial numbers must be upgraded

X07-0105	W	FORM ROLLER Soft
X07-0304NS	R	PAN ROLLER Soft
X07-0404	T	OSCILLATOR ROLLER Hard
XSA-070204NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
X06-108	—	SEALED BALL BEARING for replacement Side Frames (Requires 4)
X06-346038	—	THIN FLANGED BUSHING for original equip. Side Frame (Requires 4)

RYOBI 3302M 6 ROLL WATER UNIT

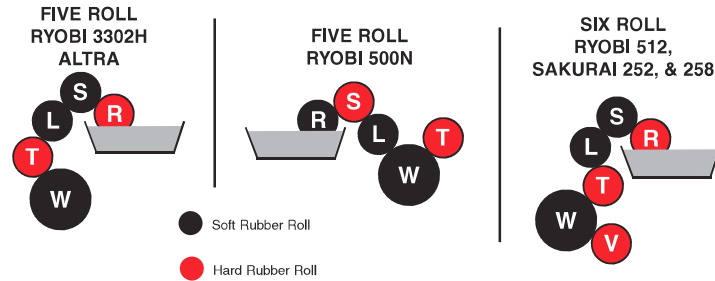
X07-0105	W	FORM ROLLER Soft
X07-0321	R	PAN ROLLER Hard
X07-0404	T	OSCILLATOR ROLLER Hard
XSA-070219	S	METERING ROLLER ASSY. Soft (Roller, shaft, washers, collars)
XSA-070512	L	LOWER INTERMEDIATE ASSY. Hard (Roller, shaft, bearings, collars, roll pin)
XSA-070513	U	UPPER INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pin)
X06-108	—	SEALED BALL BEARING (After serial number 9209-08127) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING (Before serial number 9209-08127) Side Frame (Requires qty. 4)

RYOBI 3302M ALTRA SERIES 5 ROLL WATER UNIT

X07-0135	W	FORM ROLLER Soft
XSA-070338	R	PAN ROLLER Hard (with X06-013)
XSA-070431	T	OSCILLATOR ROLLER Hard
XSA-070257	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, snap rings)
XSA-07006	L	INTERMEDIATE ASSY. Soft (Roller, tie bar, bearings, collars)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-130	—	SEALED BALL BEARING Pan Roller (Requires qty. 2)
X06-103	—	SEALED BALL BEARING Internal Metering (Requires qty. 2)

CRESTLINE PARTS

ORIGINAL CRESTLINE PARTS for RYOBI & SAKURAI



Crestline
 Cat. No. Key Description

RYOBI 3302H ALTRA SERIES 5 ROLL WATER UNIT

X07-0168	W	FORM ROLLER Soft
XSA-070338	R	PAN ROLLER Hard (with X06-013)
X07-0467	T	OSCILLATOR ROLLER Hard
XSA-070257	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, snap rings)
XSA-070006	L	INTERMEDIATE ASSY. Soft (Roller, tie bar, bearings, collars)
X06-108	—	SEALED BALL BEARING Side Frame (Requires qty. 2)
X06-130	—	SEALED BALL BEARING Pan Roller (Requires qty. 2)
X06-103	—	SEALED BALL BEARING Internal Metering (Requires qty. 2)

RYOBI 500N 5 ROLL WATER UNIT

After serial #9110-05373 all units have a soft Pan, and a hard Metering.
 Units with earlier serial numbers must be upgraded

X07-0108	W	FORM ROLLER ASSY. Soft
X07-0307NS	R	PAN ROLLER Soft
X07-0407	T	OSCILLATOR ROLLER Hard
XSA-070207NS	S	METERING ROLLER ASSY. Hard (Roller, shaft, bearings, collars)
XSA-070503	L	INTERMEDIATE ASSY. Soft (Roller, shaft, bearings, collars, roll pin)
X06-108	—	SEALED BALL BEARING (After serial number 9211-08645) Side Frame (Requires qty. 4)
X06-346038	—	THIN FLANGED BUSHING (Before serial number 9211-08645) Side Frame (Requires qty. 4)

RYOBI 512 ALTRA 6 ROLL WATER UNIT

X07-0138	W	FORM ROLLER ASSY. Soft
XSA-070347	R	PAN ROLLER Hard (with X06-101)
X07-0435	T	OSCILLATOR ROLLER Hard
XSA-070005	S	METERING ROLLER ASSY. Soft (Roller, shaft, bearings, snap rings)
XSA-070535	L	INTERMEDIATE ASSY. Soft (Roller, tie bar, bearings, washers)
XSA-070607	V	RIDER ROLLER ASSY. (Roller, shaft, bearings, collars, bushings)
X06-101	—	SEALED BALL BEARING Pan Roller
X06-120	—	SEALED BALL BEARING Side Frame

SAKURAI 252 6 ROLL WATER UNIT

X07-0149	W	FORM ROLLER Soft
XSA-070357	R	PAN ROLLER Hard (with X06-112)
X07-0451	T	OSCILLATOR ROLLER Hard
X07-0245	S	METERING ROLLER Soft
X07-0540	L	INTERMEDIATE ROLLER Soft
X07-0608	V	RIDER ROLLER Hard
X06-115	—	SEALED BALL BEARING Side Frame
X06-112	—	SEALED BALL BEARING Pan Shaft
X06-115	—	SEALED BALL BEARING Form Drive Shaft

SAKURAI 258 6 ROLL WATER UNIT

X07-0127	W	FORM ROLLER Soft
XSA-070327	R	PAN ROLLER Hard (with X06-112)
X07-0424	T	OSCILLATOR ROLLER Hard
X07-0224	S	METERING ROLLER Soft
X07-0526	L	INTERMEDIATE ROLLER Soft
X07-0605	V	AUX. RIDER ROLLER Hard
X06-115	—	SEALED BALL BEARING Side Frame
X06-112	—	SEALED BALL BEARING Pan Shaft
X06-113	—	SEALED BALL BEARING Form Drive Shaft