RELIABLE AN AMERICAN LEGACY OF INNOVATION

drives/variable friction

NEW RELIABLE

Lab Internal Mixer

Self-Contained

Hvdraulic Press

or over 88 years, Reliable has been the industry source for rebuilt and new rubber and plastic machinery. We have built a reputation for design, custom engineering, manufacturing and rebuilt machinery, which endures. From the laboratory to the production floor, Reliable has the experience and equipment to target your specific requirements. Servicing the Rubber and Plastic Processing Industries goes beyond just a list of equipment in "Inventory." Our innovative team of Sales Engineers. Design Engineers and experienced Production Technicians, deliver machinery that surpasses the everyday challenges of today's technology. Reliable also has the most comprehensive facilities in the industry: from "AutoCAD" to Gear Cutting. And Reliable

Reliable is a third generation family owned and operated business. Conveniently located in North Bergen, New Jersey, we have easy access to the metropolitan area's airports and seaports. Our 250,000+ square foot facility gives us plenty of space for an extensive on-site inventory, machine shop operation, in-house engineering, overhead crane operation (up to 40 tons), erecting and manufacturing. Call Reliable today and discover our commitment to excellence.

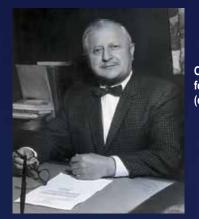
performs more work in-house than any of our competitors.

PRODUCTION EQUIPMENT

- Two Roll Mills Rubber & Plastic
- Hydraulic Presses (Compression & Transfer)
- Calenders; 2, 3, & 4 Roll
- Extruders/Strainers
- Intensive Mixers
- Bale Cutters

LABORATORY EQUIPMENT

- Two Roll Mills Rubber & Plastic
- Two Roll Mills Plastic (Electrically Heated)
- Intensive Mixers
- Hydraulic Presses (Compression & Transfer)
- Calenders; 2, 3 & 4 Roll
- Extruders
- Bale Cutters



REBUILT Internal Mixer

NEW RELIABLE

Guillotine Bale Cutter

Our Grandfather and our founder, Mr. Herman Single (circa 1935)



bearings, drilled rolls & variable friction





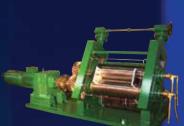
REBUILT Cold

dual drives/variable friction

NEW RELIABLE 36" Calender -



REBUILT "KOBELCO" Sheeter with all



roller bearings & variable speed



NEW 16" x 42" Mill



w/Overhead Blender



NEW RELIABLE 84" Calender - roller bearings & drilled rolls



REBUILT 60" x 60" 2,000 ton Hydraulic Press

REBUILT 26" x 84" Mill with Motorized Roll Nip Adjustments



Hvdraulic Drive motors



36" Cushion Calender



Extruder/Strainer

REBUILT Cracker Mill

REBUILT 22" x 60" Variable Speed Mill w/Overhead Mill Blender, drilled rolls & motorized roll nip adjustments



REBUILT 1200 ton

Slab Side Press

NEW 12" x 24" RELIABLE Two Roll Die Calender & Take-up System



RELIABLE Mixer



REBUILT Mixer

INVENTORY (Continued)

SIZE	RAM DA	YI IC	HT TYP
3 - 60"x60"	42" dia	64"	Slab Sid
	42 dia	04	SIAD SIC
1 - 60"x40"	42" dia	55"	Slab Sid
4 - 48"x48"	36" dia	48" 36"	Slab Sid
	30 uia	40	SIAD SIC
1 - 48"x48"	36" dia	36"	Slab Sid
1 - 48"x48"	36" dia	36"	Post
	00 did	40"	0.000
2 - 42"x42"	30" dia	40"	
1 - 40"x72"	28" dia	34"	Post
3 - 40"x40"	30" dia	30"	Post
	oo" ii	30	FUSI
1 - 38"x38"	30" dia	35"	Post
1 - 36"x36"	30" dia	42"	Post
3 - 36"x36"	30" dia	30"	Post
3 - 30 X30		30	
1 - 36"x36"	22" dia	43"	Post
1 - 36"x36"	24" dia	30"	Slab Sid
4 00 700	27 dia	40"	
1 - 36"x36"	20" dia	48"	Slab Sid
1 - 36"x36"	18" dia	55"	Post
1 - 34"x34"	24" dia	43"	Slab Sid
4 04" 04"	24 ula	00"	
1 - 34"x34"	24" dia	20"	Post
1 - 34"x34"	20" dia	30"	Post
1 - 34"x34"	20" dia	42"	Post
	16" dia	20"	
1 - 32"x42"		28"	Post
3 - 32"x32"	24" dia	30"	Slab Sid
1 - 32"x32"	24" dia	28"	Slab Sid
2 - 32"x32"	24" dia	20"	Clab Cia
2 - 32 X32	24 dia	20	Slab Sid
3 - 32"x32"	24" dia	32" 32" 19"	Slab Sid
2 - 32"x32"	24" dia	32"	Slab Sid
1 20",20"	24" dia	10"	Slab Sid
1 - 32"x32"	24 dia	19	Siad Sig
2 - 32"x32"	20" dia	42" 27" 37"	Post
1 - 32"x32"	20" dia	27"	Post
2 22",22"	16" dia	27"	Post
3 - 32"x32" 1 - 32"x32"		31	7051
1 - 32"x32"	12" dia	26"	C Fran
1 - 30"x60"	(2)12" dia	20"	"C" Fran
1 - 30"x48"	22" dia		Post
1 - 30 X40	ZZ Ula	25" 34"	FUSI
1 - 30"x30"	24" dia	34"	Post
1 - 30"x30"	20" dia	22"	Slab Sid
2 - 30"x30"	24" dia	24"	Slab Sid
	24 Ula	24	Slab Sit
1 - 30"x30"	22" dia	24"	Slab Sid
2 - 30"x30"	22" dia	24"	Slab Sid
1 - 30"x30"	16" dia	30"	Post
0 00" 04"	10 uid	32" 40"	Doot
2 - 30"x24"	18" dia	40"	Post
2 - 28"x36"	12" dia 22" dia	32"	Post
2 - 28"x28"	22" dia	22"	Post
2 - 20 X20	22 UId	44"	rusi.
3 - 28"x28" 4 - 26"x26"	18" dia	32" 22" 44"	Post
4 - 26"x26"	20" dia	20"	Post
1 - 24"x156"	(4)14" dia	30"	Post
1 - 24 X 100	(4) 14 UIA	OO"	FUSI.

HYDRAULIC PRESSES

4 - 24"x24" 20" dia 20" Post 1 - 24"x24" 18" dia 36" Slab Side - 24"x24" 18" dia 22" Post l - 24"x24" 16" dia 34" Slab Side 16" dia 32" Post 2 - 24"x24" 2 - 24"x24" 14" dia 20" Post 6 - 24"x24" 14" dia 14" Post 12" dia 30" "C" Frame l - 24"x24" 3 - 22"x22" 14" dia 14" Post - 20"x20" 14" dia 48" Post 3 - 20"x20" 12" dia 22" Post 3 - 20"x20" 10" dia 18" Post

- 18"x18" 9" dia 9" Post - 36"x36" Self Cont. Motorized Press - 32"x38" Self Cont. Motorized Press

- 30"x30" Self Cont. Motorized Press - 24"x24" Self Cont. Motorized Lab Press - 18"x18" Self Cont. Motorized Lab Presses 2 - 16"x16" Self Cont. Motorized Lab Presses

- 15"x15" Self Cont. Motorized Lab Press 3 - 12"x12" Self Cont. Motorized Lab Presses 4 - 10"x10" Self Cont. Motorized Lab Presses

adjustments, unitized design; compact footprint

HYDRAULIC PRESSES (Continued) INVENTORY HIGHLIGHTS (Continued)

- 18"x12" Benchtop Hand Pump Lab Press

1 - 12"x 12" Benchtop Hand Pump Lab Press

Many, many more in stock!!! Over 150 presses

NEW HYDRAULIC PRESSES - designed and

manufactured to your exact specifications

INVENTORY HIGHLIGHTS

NEW 12" x 12" - up to 60" x 60"

MIXING LINE:

CONDITION

Quick Delivery

CONDITION

5 - 18"x18" - 12"x12" Benchtop Hand Pump Lab Presses

- "Kneader Machinery" 55 Liter - Model KD-55-200AC

- 18" x 48" "RELIABLE" Modern Two Roll Mill. direct

driven, unitized base w/100 HP motor (Built to suit)

1 - 6" x 13" "Bolling" Two Roll Variable Speed Lab Mill -

- 18" x 18" Self contained Motorized Presses, 75 ton,

with **NEW** electric heated platens; all **NEW** controls

18" x 12" "PHI" Self-Contained Motorized Transfer

Press, 50/10 ton, with electric heated platens; all

- 22" x 60" "Nippon" Two Roll Mill with Drilled Rolls,

Variable Speed/Variable Friction, dual motors.

Anti-friction/Roller Bearings, Motorized Roll Nip

Adjustments; many extras - Very Good Condition

- 16" x 42" "Kobe" Mill, unitized design, 60 HP motor

1 - 8" x 16" "RELIABLE" Two Roll Lab Mill - Cabinet

"RELIABLE" Model R-100 Lab Mixer - 1.6 liter

"KSBI - Kobelco Stewart-Bolling" size "00" Lab Mixer

- 1.6 liter w/30 HP variable speed motor & controls. (New in 1990) **EXCELLENT CONDITION**

- 22" x 60" "Eemco" Mill, direct driven unitized base.

- 26" x 84" "Farrel" Rubber Mill, both Drilled Rolls,

direct driven, unitized base 250 HP drive train

- 26" x 100" "Eemco" Mill, direct driven, unitized

base "Lufkin" gear reducer, 300 HP variable speeds

- "Kneader Machinery" 75 Liter - Model KD-75-250

- 6" x 13" "RELIABLE" Two Roll Lab Mill 7 1/2 HP;

- 22" x 60" "Farrel" Two Roll Plastics Mill, low profile mill

base variable speed motor. **EXCELLENT CONDITION**

frames, direct driven, "Alten" gear reducer, unitized

frames, direct driven, "Lufkin" gear reducer, unitized

- 24" x 24" "Wabash" Self-Contained Hydraulic Press:

200 ton with electric heated platens. **EXCELLENT**

- 28" x 100" "Farrel" Mill, direct driven, unitized base.

22" x 60" "Comerio" Mills w/motorized roll

- 26" x 84" "Bolling" Two Roll Mill, low profile mill

compact design w/150 HP motor, **EXCELLENT**

silicone features - Excellent Condition -

controls - Very Good Condition

Style, 15 HP motor & controls

w/variable speed motor & controls

Kneader Mixer w/200 HP motor

Rebuilt - QUICK DELIVERY

base 200 HP motor.

CONDITION

built to suit

Kneader Mixer w/200 HP variable speed motor

& PLC controls - (NEW in 2005) - EXCELLENT

Services & Engineering

Complete In-House Machine

variable friction.

- 1 26" x 84" "Farrel" Rubber Mill Dual "Hagglunds" hydraulic drives, hydraulic roll nips, variable speed/
- Rebuilt Condition with one year warranty. **IMMEDIATE DELIVERY**
- "Farrel" size "BR" Lab Mixer w/variable speed motor & NEW
- 30" x 40" "Southwark" Four Post Press. 18" dia. ram. 20" daylight w/new electric platens & self-contained hydraulics
- Twin 32" x 32" "French Oil Mill" Slab Side Hydraulic Press System: 750 ton each with a self-contained common
- hydraulic pump system 2 - 12" x 12" "PHI" C-Frame Design, Benchtop Press;
- 35 ton w/electric heated platens - "RELIABLE" 28" wide Self-Contained Hydraulic Guillotine

Condition - Quick Delivery

- Style Bale Cutter QUICK DELIVERY - 6" x 13" "KSBI" "Cabinet Style" Lab Mill - Variable Speed; (NEW in 2006) - UNUSED / EXCELLENT CONDITION!!
- 22" x 60" "Farrel" Mill direct driven unitized design. "Horsburgh & Scott" gear reducers: 150 HP Excellent
- 3 26" x 26" "RELIABLE" Four Post Hydraulic Presses; 470 ton with electric heated platens
- 4" x 8" "CW Brabender" Prep Mill VERY GOOD CONDITION - 22" x 60" "Bolling" Mill direct driven unitized base 150 HP
- motor, both Drilled Rolls, Anti-Friction/Roller Bearings, Hydraulic Roll Nip Adjustments, GOVERNMENT SURPLUS/EXCELLENT CONDITION
- 12" x 12" "Wabash" Self-Contained Hydraulic Press: 30 tons with electric heated platens
- 18" x 54" "RELIABLE" Two Roll Vertical Calender unitized design style. 75 HP variable speed motor & controls **EXCELLENT CONDITION**
- "Maag" 2 1/2" Pin Barrel Extruder with Gear Pump. **EXCELLENT CONDITION**

MISCELLANEOUS

- 1 12 cubic ft. Ribbon Blender Stainless Steel for Dry blends; good condition
- "USM" Die Cutter/Clicker Press
- 84" Mill Batch Divider
- "Cumberland" Granulator, 8" x 12" opening; 4Kw/460 volt -**NEW CONDITION**
- 16 cubic ft. Ribbon Blender Stainless Steel for Dry blends; good condition.
- 1 set Spare/replacement size #11D "Farrel" 4-wing mixer rotors 1 set - Spare/replacement size #270 "Farrel" 2-wing mixer rotors
- 84" Overhead Strip Blender non reciprocating type - 60" & 84" "ASM" Overhead Mill Blenders, reciprocating type
- Batch Plow Assembly for 60" Plastics Mill pneu. operated 1 set - **NEW** size "BR" Lab mixer rotors



Rubber & Plastic Machinery

NEW RELIABLE

Transfer Press

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REBUILT 28" x 80" Two Roll **Vertical Calender with drilled** rolls and dual drive trains



REPAIRS • ACCESSORIES • EXTENSIVE INVENTORY • SPARE PARTS • SERVICES

Proudly Serving the USA for over 88 years!



















NEW "Cabinet Style" Mills up to 18" x 50" **NEW LAB MILLS UNITIZED 2-ROLL MILLS**

- 28" x 28" x 100" - 26" x 26" x 100" 2 - 26" x 26" x 100" - Front Drilled Roll - 26" x 26" x 100" - Drilled Rolls - 28" x 28" x 84"

8 - 26" x 26" x 84" - 26" x 26" x 84" - Dual Hydraulic Drives 26" x 26" x 84" - Hydraulic Roll Adj. - 26" x 26" x 84" - Front Drilled Rolls - 26" x 26" x 84" - Drilled Rolls

 Twin 26" x 26" x 84"- 400HP & 500 HP - 24" x 24" x 84" - 24" x 24" x 60" - Twin 22" x 20"x 60" - 250 HP

12 - 22" x 22" x 60" 2 - 22" x 22" x 60" - Front Drilled Rolls - 22" x 22" x 60" - Both Drilled Rolls - 22" x 22" x 60" - Roller Bearings - 22" x 22" x 60" - Hydraulic Roll Adj

- 22" x 22" x 60" - Motorized Nip Adj. 4 - 22" x 22" x 60" - Heavy duty bearing journals - 22" x 20" x 60" - 22" x 20" x 60" - Heavy duty bearing journals - 20" x 20" x 60" - Silicone

Refiners/Crackers 2 ROLL MILLS

Compact Cabinet Style Mills

1 - 14" x 14" x 36"- Both Drilled Rolls

10" x 10" x 26" - Roller Bearings

- 8" x 8" x 16" - Var. Speed/Var. Friction

- 6" x 6" x 13" - Var. Speed/Var. Friction

2 - 8" x 8" x 16" - Roller Bearings

- 6" x 6" x 13" - Roller Bearings

2 - 3" x 3" x 8" - Var. Speed/Var. Friction

- "Farrel" #1 - 16.5 liter Replacement Chamber Body 22" x 22" x 54" - Heavy duty & Parts 1 - "Frances-Shaw" size K1 Mixer - intermeshing rotors 2 - "Bolling" "#OM" Lab Mixers - one w/50 HP motor

- 18" x 18" x 48" - 16" x 16" x 42" - 16" x 16" x 40" - 16" x 16" x 36" - 16" x 16" x 32"

- 18" x 18" x 50"

2 - 12" x 12" x 24"

2 - 10" x 10" x 24"

1 - 10" x 10" x 20"

1 - 22" x 26" x 42"

2 - 24" x 24" x 36"

1 - 20" x 24" x 32"

2 - 19" x 24" x 30"

- 32" x 20" x 38"

- 22" x 22" x 36"

- 16" x 16" x 30"

- 14" x 14" x 30"

- 12" x 12" x 36"

- 12" x 12" x 30"

12" x 12" x 24"

- 10" x 10" x 24"

- 10" x 10" x 20"

16 - 6" x 6" x 12"/13"

3 - 8" x 8" x 16"

2 - 4" x 4" x 8"

2 - 3" x 3" x 8"

EXCELLENT CONDITION - "RELIABLE" Model R-260 Lab Mixer, 4.3 liter 50 - 14" x 14" x 36" - 14" x 14" x 30" HP variable speed **EXCELLENT CONDITION** - "Bolling" "#00" Lab Mixer - w/30 HP motor - 12" x 12" x 30" - 10" x 10" x 26" - Roller Bearings

- "Buzuluk" Lab Mixer - "BR1600" - 1.6 liter - **Drop Door** - UniDrive/variable speed motor 3 - "Farrel" "#BR" - 1.6 liter - variable speed motor

& one w/40 HP motor

NEW - 3" x 8" various models

NEW - 6" x 13" various models

Base & Hopper

NEW - 8" x 16" up to 18" x 50" various models

1 - "Farrel" #F-370 - Unidrive Chamber Body,

- "Farrel" #F-270 - Unidrive Chamber Body

- "Farrel" #11D - Unidrive Body w/4 wing rotors

- "Farrel" #9 - Chamber Body - Drilled Sides

- "Farrel" #F-80 - Unidrive Complete - 300 HP

- "Farrel" #F-80 - Unidrive Chamber Body & Hopper

variable speed motor. **EXCELLENT CONDITION**

"Farrel" #1 - 16.5 liter Clam shell discharge Mixer

- "Farrel" #3D - Unidrive Chamber Body & Hopper

- "Farrel" size No. #1D Mixer: 16.5 liter capacity/

27 lbs. Semi-UniDrive with 150 HP DC/SCR

1 - "Farrel" "#00C" 4.3 liter variable speed motor

1 - "Farrel" "#00" 4.3 liter variable speed motor

- "Farrel" #11D - Unidrive Chamber Body

- "Farrel" #9 - Semi Unidrive Complete

- "Farrel" #3D - Unidrive Complete

100/50 HP Two speed motor

- "Farrel" #9 - Conventional Chamber Body

"Farrel" #11D - Semi Unidrive

INTERNAL MIXERS - Banbury® Type

w/new controls - "RELIABLE" "Model R-100" - 1.6 liter - variable speed motor

"Farrel" "#Midget" - .41 liter - variable speed motor w/new controls

- "Farrel" "#B"-Replacement Chamber Body & Hopper - "Farrel" "#BR" - Replacement Chamber Body & Hopper

1 - "Farrel" <u>"#Midget"</u> - Replacement Chamber Body & Hopper 2 - "Lufkin" F-270/D-890 Unidrive Gear Reducers

- "Farrel" 3D Unidrive Gear Reducer 1 set - Spare/replacement Size #270 "Farrel"

2-wing mixer rotors I set - Spare/replacement Size #11D "Farrel" 4-wing mixer rotors set - Spare/replacement Size #9FCM "Farrel" mixer

rotors - Style #15

2 sets - Spare/replacement Size #9 "Farrel" rotors

INTERNAL MIXERS - Kneader Type 1 - "Kneader Machinery" 75 Liter - Model KD - 75 - 150

Kneader Mixer/with 150 HP motor & PLC controls (NEW in 2004 - EXCELLENT/NEW CONDITION) - "Kneader Machinery" 55 Liter - Kneader Mixer/complete w/200 HP motor & PLC controls - (NEW in 2005 -

EXCELLENT/NEW CONDITION)

Kneader Type (Continued)

! - "Moriyama" 55 Liter - Type DX-55-75 Kneader Mixer/ complete w/75 HP motors & controls

- "TMP" 55 Liter - Kneader Mixers - one complete & one with mixer chamber only · "TMP" 35 Liter - Kneader Mixer w/125 HP w/variable speed motor (NEW in 1994)

- "B-P" Sigma Blade Mixer - Pilot Production/silicone - "B-P" Sigma Blade Mixer - Lab size/silicone

EXTRUDERS/STRAINERS

1 - "Farrel" 15" w/Pneumatic Stuffer - "Farrel" 15"x12" w/Pneumatic Stuffer

- "Davis Standard" 3 1/2" Extruders w/Power Roller Feed

- "Royle" 10" Hot Feed - "NRM" 8" Hot Feed Strainer - "NRM" 6" Hot Feed

- "Rovle" 6" Hot Feed - "NRM" 4 1/2" Cold Feed w/Power Roller Feed - 125 HP

- "NRM" 4 1/2" Cold Feed 17:1 L/D w/Power Roller Feed - **EXCELLENT CONDITION** "NRM" 3 1/2" Cold Feed w/Power Roller

- "NRM" 1 1/2" Cold Feed - "Maag" 2 1/2" Pin Barrel Extruder with

Gear Pump EXCELLENT CONDITION
- "Royle" 2" Hot Feed - "Barwell" Model "Midi" Preformer

CALENDERS

ram type

- 26" x 100"- 2 Roll - 24" x 84"- 3 Roll

- 24" x 84"- 2 Roll - 28" x 82"- 2 Roll **EXCELLENT COND.**

- 28" x 78"- 4 Roll, "Z" (4) Drilled Rolls/Ind. Drives to suit

- 26" x 78"- 3 Roll, Even Speed & Friction Gears to suit

- 24" x 66"- 3 Roll, Even Speed & Friction Gears - 24" x 60"- 2 Roll, Variable Speed &

Variable Friction

- 22" x 60"- 3 Roll, Even Speed & Friction Gears - 18" x 54"- 2 Roll - EXCELLENT

CONDITION - 18" x 48"- 2 Roll - 16" x 48"- 2 Roll

- 20" x 42"- 2 Roll - Roller Bearings - 18" x 36"- 3 Roll

- 12" x 28"- 3 Roll Incl. Offset **EXCELLENT** CONDITION

- 10" x 20"- 3 Roll - 8" x 16"- 4 Roll "Z" - 8" x 16"- 3 Roll

3 - 6" x 13/12"- 3 Roll - 4" x 8"- 2 Roll - Inclined - Var. Speed/ Var. Friction w/Roller Bearings

- 3" x 8"- 2 Roll - **EXCELLENT/NEW** CONDITION



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