Vulcanizing Machines

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Introduction

SHAW-ALMEX, The Company

In 1962, the founder E. J. Alm had an innovative idea for a revolutionary conveyor belt vulcanizer, being the pressure bag system. From that idea a company began in a small Canadian town, the company grew to the Shaw Almex Global Group of today:

- 4 manufacturing facilities
- Shaw Almex sales and service offices for 5 continents
- 10.000's vulcansing presses sold worldwide.
- Customers in over 95 countries

Our outstanding engineering capabilities, a willingness to solve challenging design problems and the unique partnership we build with each of our clients has resulted in the rapid growth of our product range and world-wide network.

The Almex principle

"The weakest point of a conveyor belt is the splice"

Conveyor belts are crucial and expensive assets in any bulk handling operation. A lot of research, time and money is spent on selecting the most efficient, reliable and economical conveyor belt that suits the application. Still the splice always remains the weakest and most vulnerable point in a conveyor belt! If the splice fails, the conveyor fails which can result in tremendous costs and down time.

In order to secure the best splice the following is needed:

1. Skilled splice technician who prepare the splice.
2. Correct splice materials, matching the belt specifications.
3. The right overall pressure during the vulcanizing process.
4. The correct temperature is crucial for a correct vulcanizing process.

ALMEX vulcanizing presses guarantee to solve items 3 and 4 in the fastest possible time through its unique proven features:

1. Air/water bag pressure system
2. Flexible pressure platens
3. Flexible heating element.
4. Integral water cooling on all ALMEX presses

The Almex vulcanizing features

Flexible platens and air/water bag.

It is very important that during the splice vulcanizing process the splice area receives uniform pressure at every spot!

What happens if pressure is not equal or enough?

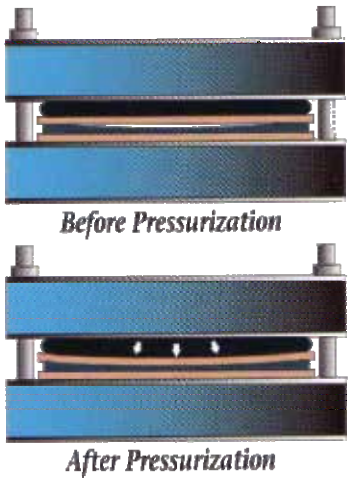
- Porosity and poor adhesion at those places that do not receive enough pressure.
- Ply separation and blisters because of trapped moisture and air.
- Lose of tensile strength.
- All this results in potential failing splices or heavily reduced lifetime of splices.

Causes of unequal pressure:

- Thickness of a belt is never the same everywhere. On used belting the centre is often worn out causing a lesser thickness in the middle of the belt compared to the edges. Using rigid pressure plates will result in higher pressure on the edge of the belt than in the middle.
- For steel cord belting the rubber for the splice area is hand made which will never result in equal amounts on every place.'
- Failing or leaking components on hydraulics can cause lesser pressure on certain spots.

In order to guarantee uniform pressure, ALMEX pressures are equipped with flexible platens and air/water bag pressure systems. As a result:

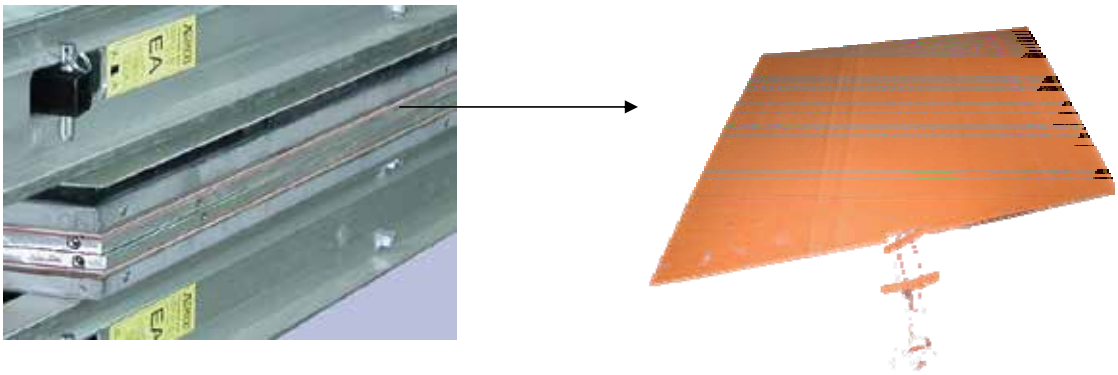
- The bag covers the whole splice area
- The pressure platens take the shape of the belt.
- THE BEST PRESSURE SYSTEM



Flexible heating platen and temperature.

Uniform and correct temperature during splicing is as important as uniform pressure.
Incorrect temperatures result in the following:

1. Too high temperature will over cure the splice rubber and causes a brittle and hard splice.
2. Too low temperature will under cure the splice rubber and causes the splice to be soft and plastic.
3. Both will result in a splice with low mechanical properties such as: low tensile strength, low abrasion resistance and low adhesion values.

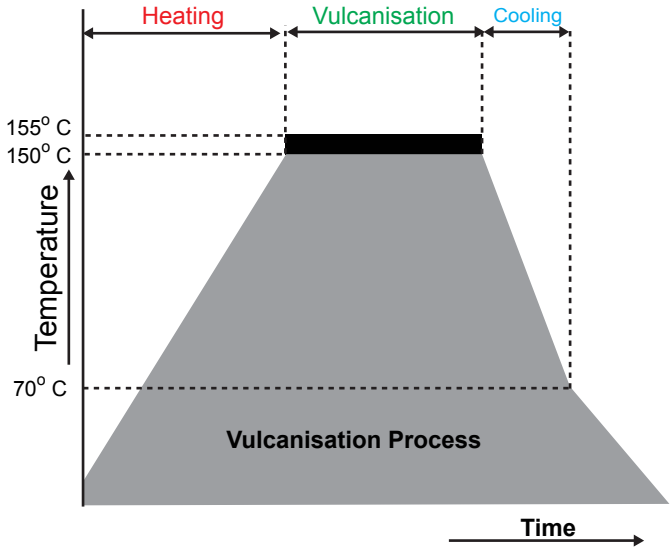


The ALMEX flexible heating elements provide the following:

1. High energy efficiency due to direct contact over the total splice surface.
2. Very good isolation eliminates heat loss.
3. Double wiring at the edges of the heating element compensates for loss due to contact with air on the edges.
4. The above results in:
   a. Temperature accuracy of maximum +/- 3 degree Celcius!
   b. Fast heat and efficient heat up, typical 20-30 minutes depending belt thickness.

Water cooling, splice quality and time

A typical splicing curve can be seen below.



Heating:

- ALMEX presses and designs are designed in such way that it guarantees uniform temperature at every single spot on splice area.
- Direct contact with heating platens and superior isolation guarantees a high energy efficiency and thus fast heat up. Typical 20-25 minutes.
- Temperature inside the splice and indicated on the control box varies maximum +/- 3 degrees Celsius.
- Each heating platen has an individual temperature controller which avoids surprises at the end of a splice because a heating platen failed!
- ALMEX uses logical controllers in order to avoid temperature overshoot during heat up.

Vulcanisation:

- Logical controllers guarantee that temperature remains exactly on the temperature indicated by the belt manufacturer.

Cooling:

- All ALMEX presses are equipped with water cooling. The cool platens are made of a special aluminum alloy with extruded cooling channels. The cooling water is therefore in direct contact with the plate itself and therefore cools very quickly. On plied belting the temperature goes down from 150 degree to 65 in about 5 minutes for plied belting.

  The ALMEX presses can typically perform a total splice cycle, heating, vulcanizing and cooling in 50-60 minutes for flied belting (depending on the belt type and thickness).

5.1 Pro-series, Steel & Fabric ply Machines

Model - PRO 60

Maximum operating pressure
60 psi (4 kg/cm ^{2})

Maximum temperature
325 deg F (160 deg C)

MODEL	PLATEN SIZE		MAXIMUM BELT WIDTH		WEIGHTS				OVERALL HEIGHT		OVERALL WIDTH		OVERALL LENGTH	
					TOP HALF		TOTAL							
	IN	MM	IN	MM	LBS	KG	LBS	KG	IN	MM	IN	MM	IN	MM
PRO 60 - *Rectangular Models*														
PRO60R-1440	14 x 40	355 x 1015	36	900	112	51	246	112	16	405	15	380	49	1245
PRO60R-1636	16 x 36	405 x 915	32	800	120	54	274	124	18	455	17	430	52	1320
PRO60R-1654	16 x 54	405 x 1370	48	1200	198	90	424	192	18	455	17	430	70	1780
PRO60R-1852	18 x 52	455 x 1320	48	1200	200	91	435	197	18	455	19	480	69	1750
PRO 60 - *Rhomboid Models (all platens built on a 22 degree bias with a "left hand" lead.*														
PRO60-1930	19 x 30	480 x 760	24	600	100	45	225	102	16	405	19	480	51	1295
PRO60-1937	19 x 37	480 x 940	32	800	120	54	270	122	16	405	19	480	58	1475
PRO60-1943	19 x 43	480 x 1090	36	900	146	66	319	145	16	405	19	480	64	1625
PRO60-1950	19 x 50	480 x 1270	42	1050	196	89	420	190	18	455	19	480	72	1830
PRO60-1956	19 x 56	480 x 1420	48	1200	218	99	472	214	19	480	19	480	78	1980
Smaller models include in-frame controls. Larger sizes and 3 phase models require remote controls.														
Optional side carrying handles available upon request.														

Specifications are approximate and subject to change without notice.
All models available have not been included on this list.

SPECIFICATIONS - FRAME VULCANIZERS - PRO AND SOLO XPRESS

Model - PRO 100

Maximum operating pressure
100 psi (7 kg/cm)^2

Maximum temperature
325 deg F (160 deg C)

MODEL	PLATEN SIZE		MAXIMUM BELT WIDTH		WEIGHTS				OVERALL HEIGHT		OVERALL WIDTH		OVERALL LENGTH	
					TOP HALF		TOTAL							
	IN	MM	IN	MM	LBS	KG	LBS	KG	IN	MM	IN	MM	IN	MM
PRO 100 - *Rectangular* Models														
PRO100R-1420	14 x 20	355 x 510	18	450	63	29	142	64	16	405	17	430	29	735
PRO100R-1426	14 x 26	355 x 660	24	600	79	36	174	79	16	405	17	430	35	890
PRO100R-1434	14 x 34	355 x 865	30	750	108	49	233	106	16	405	17	430	44	1115
PRO100R-1842	18 x 42	455 x 1065	38	950	170	77	326	148	19	480	19	480	58	1475
PRO100R-1446	14 x 46	355 x 1170	42	1050	149	68	324	147	20	510	17	430	56	1420
PRO100R-1846	18 x 46	455 x 1170	42	1050	191	87	417	189	20	510	19	480	62	1575
PRO100R-2646 *	26 x 46	660 x 1170	42	1050	295	134	652	296	22	560	27	685	62	1575
PRO100R-1852	18 x 52	455 x 1320	48	1200	220	100	475	215	21	535	19	480	69	1750
PRO100R-1454	14 x 54	355 x 1370	50	1250	189	86	400	181	21	535	17	430	70	1780
PRO100R-1864 *	18 x 64	455 x 1625	60	1500	316	143	690	313	23	585	19	480	81	2055
PRO 100 - *Rhomboid* Models (all platens built on a 22 degree bias with a "left hand" lead.)														
PRO100-1924	19 x 24	480 x 610	20	500	98	44	212	96	16	405	19	480	45	1145
PRO100-1930	19 x 30	480 x 760	24	600	110	50	245	111	17	430	19	480	51	1295
PRO100-2830 *	28 x 30	710 x 760	24	600	163	74	335	152	17	430	27	685	54	1370
PRO100-1937	19 x 37	480 x 940	32	800	147	67	322	146	18	455	19	480	58	1475
PRO100-2837 *	28 x 37	710 x 940	32	800	208	94	454	206	18	455	27	685	62	1575
PRO100-1943	19 x 43	480 x 1090	36	900	156	71	343	156	19	480	19	480	64	1675
PRO100-2843 *	28 x 43	710 x 1090	36	900	223	101	495	224	20	510	27	685	70	1780
PRO100-1950	19 x 50	480 x 1270	42	1050	217	98	475	215	19	480	19	480	72	1830
PRO100-2850 *	28 x 50	710 x 1270	42	1050	285	129	625	283	22	560	27	685	74	1880
PRO100-1956	19 x 56	480 x 1420	48	1200	254	115	551	250	22	560	19	480	79	2005
PRO100-2856 *	28 x 56	710 x 1420	48	1200	367	166	800	363	23	585	27	685	81	2055
PRO100-1962 *	19 x 62	480 x 1575	54	1350	281	127	610	277	23	585	19	480	84	2135
PRO100-2862 *	28 x 62	710 x 1575	54	1350	416	189	922	418	25	635	27	685	87	2210
PRO100-1970 *	19 x 70	480 x 1780	60	1500	355	161	773	351	25	635	19	480	94	2385
PRO100-2870 *	28 x 70	710 x 1780	60	1500	507	230	1,102	500	27	685	27	685	94	2385
Smaller models include in-frame controls. Larger sizes and 3 phase models require remote controls.														
Models with asterisk (*) include side handles. Add 6" to overall width.														

Specifications are approximate and subject to change without notice.
All models available have not been included on this list.

5.2 - SVP Series, steel & fabric ply machines

SVP 2469

Control Box

HPP20-4
Fluid Pressure Pump

Steps to Sectional Model Selection

The proper model selection for a SECTIONAL vulcanizer depends on determining dimensions A and B (see diagram at right).

A – the platen length (A) is calculated by adding to the belt manufacturer's recommended splice length,
6 inches (150 mm) for fabric belt
14 inches (355 mm) for steelcord belt

B – the platen width (B) which includes the bias angle, is determined by adding to the belt width
6 inches (150 mm) for fabric belt
8 inches (200 mm) for steelcord belt
To this figure multiply by:
1.07 for 22 degree bias angle
1.05 for 17 degree bias angle

Dimensions A and B represent the outside platen dimensions. Scan down the list below until you arrive at a platen size that corresponds with your figures.

If the size you require is not listed below our Sales department will be happy to recommend a suitable size.

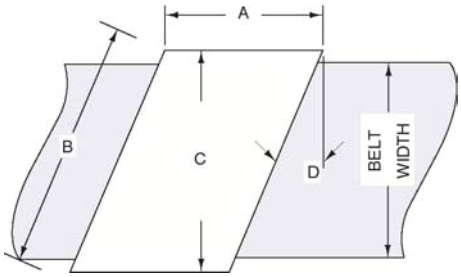
Custom sizes, rectangular configurations and multiple platen arrangements are also available upon request.

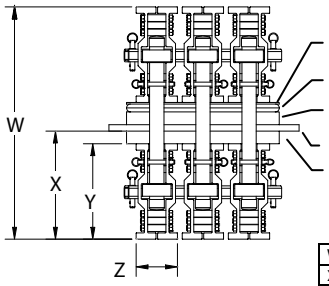
A = Length of platen along the belt.

B = Width of platen across the belt on the bias.

C = Right angle dimension across the belt, plus edge overlap.

D = Bias angle.





	EA		EAX		EB		EC		E380	
	in	mm	in	mm	in	mm	in	mm	in	mm
W	22	559	27.5	699	32.5	826	32.5	826	36.5	927
X	9.75	248	12.5	318	15	381	15	381	17	432
Y	7.75	197	10.5	267	13	330	13	330	15	381
Z	7	178	7	178	6	152	6.5	165	6.5	165

The following is only a small sampling of Sectional vulcanizing models available from **FaBa Commercial Services W.L.L.** Contact us or your local representative for more information.

100 p.s.i. (7 kg/cm sq.) units suitable for splicing fabric ply belting.

Model Number	Maximum Belt Width		Platen Dimensions A		B		C		Splice Length		Spanner Bars Qty	Type	Length		Qty Bolt/ Nut Assy.	Main Component Weights Platen		Bar		Bolt/Nut Assy.		Approx. Total Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm			in	mm		lbs	kg	lbs	kg	lbs	kg	lbs	kg
SVP 1930	24	610	19	480	30	760	28	705	13	330	2 sets	EA	42	1065	4	55	25	52	24	18	8	494	225
SVP 1937	30	760	19	480	37	940	34	870	13	330	2 sets	EA	49	1245	4	68	31	61	28	18	8	560	255
SVP 1943	36	915	19	480	43	1090	40	1015	13	330	2 sets	EA	55	1395	4	79	36	68	31	18	8	617	281
SVP 2643	36	915	26	660	43	1090	40	1015	20	510	3 sets	EA	55	1397	6	108	49	68	31	18	8	891	405
SVP 2843	36	915	28	710	43	1090	40	1015	22	560	3 sets	EA	55	1397	6	116	53	68	31	18	8	915	416
SVP 3343	36	915	33	840	43	1090	40	1015	27	685	4 sets	EA	55	1397	8	137	62	68	31	18	8	1149	522
SVP 3743	36	915	37	940	43	1090	40	1015	31	785	4 sets	EA	55	1397	8	153	70	68	31	18	8	1198	544
SVP 1950	42	1065	19	480	50	1270	46	1175	13	330	2 sets	EA	62	1574	4	92	42	77	35	18	8	683	311
SVP 2850	42	1065	28	710	50	1270	46	1180	22	560	3 sets	EA	62	1574	6	135	61	77	35	18	8	1014	461
SVP 3350	42	1065	33	840	50	1270	46	1180	27	685	4 sets	EA	62	1574	8	159	72	77	35	18	8	1274	579
SVP 4250	42	1065	42	1065	50	1270	46	1180	36	915	5 sets	EA	62	1574	10	202	92	77	35	18	8	1588	722
SVP 1956	48	1220	19	480	56	1420	52	1320	13	330	2 sets	EA	68	1727	4	103	47	84	38	18	8	740	336
SVP 2856	48	1220	28	710	56	1420	52	1320	22	560	3 sets	EA	68	1727	6	151	69	84	38	18	8	1098	499
SVP 3756	48	1220	37	940	56	1420	52	1320	31	785	4 sets	EA	68	1727	8	200	91	84	38	18	8	1441	655
SVP 4256	48	1220	42	1065	56	1420	52	1320	36	915	5 sets	EA	68	1727	10	227	103	84	38	18	8	1722	783
SVP 2658	48	1220	26	660	58	1475	54	1370	20	510	3 sets	EA	70	1778	6	145	66	87	39	18	8	1095	498
SVP 3358	48	1220	33	840	58	1475	54	1370	27	685	4 sets	EA	70	1778	8	185	84	87	39	18	8	1416	643
SVP 3758	48	1220	37	940	58	1475	54	1370	31	785	4 sets	EA	70	1778	8	207	94	87	39	18	8	1478	672
SVP 4558	48	1220	45	1140	58	1475	54	1370	39	990	5 sets	EA	70	1778	10	252	114	87	39	18	8	1814	824
SVP 2862	54	1370	28	710	62	1575	57	1460	22	560	3 sets	EA	74	1879	6	167	76	92	42	18	8	1183	538
SVP 3365	54	1370	33	840	65	1650	60	1530	27	685	4 sets	EA	77	1955	8	207	94	95	43	18	8	1540	700
SVP 3665	54	1370	36	915	65	1650	60	1530	30	760	4 sets	EA	77	1955	8	226	103	95	43	18	8	1592	723
SVP 4068	55	1395	40	1015	68	1725	63	1600	34	865	4 sets	EAX	80	2032	8	262	119	122	55	20	9	1914	870
SVP 1969	60	1525	19	480	69	1755	64	1625	13	330	2 sets	EA	81	2057	4	126	57	100	46	18	8	863	392
SVP 2469	60	1525	24	610	69	1750	64	1625	18	455	3 sets	EA	81	2057	6	160	73	100	46	18	8	1209	549
SVP 2871	60	1525	28	710	71	1800	66	1675	22	560	3 sets	EAX	83	2108	6	192	87	126	57	20	9	1461	664
SVP 3371	60	1525	33	840	71	1800	66	1675	27	685	4 sets	EA	83	2108	8	226	103	103	47	18	8	1646	748
SVP 3671	60	1525	36	915	71	1800	66	1675	30	760	4 sets	EAX	83	2108	8	246	112	126	57	20	9	1904	866

SPECIFICATIONS - SECTIONAL VULCANIZERS - SVP MODELS

Model Number	Maximum Belt Width		Platen Dimensions						Splice Length		Spanner Bars					Main Component Weights						Approx. Total Weight	
			A		B		C				Qty	Type	Length		Qty Bolt/ Nut Assy.	Platen		Bar		Bolt/Nut Assy.			
	in	mm	in	mm	in	mm	in	mm	in	mm			in	mm		lbs	kg	lbs	kg	lbs	kg	lbs	kg
SVP 4471	60	1525	44	1115	71	1800	66	1675	38	965	5 sets	EA	83	2108	10	301	137	103	47	18	8	2095	952
SVP 4273	60	1525	42	1065	73	1850	68	1720	36	915	5 sets	EAX	85	2159	10	296	134	129	59	20	9	2360	1073
SVP 1984	72	1830	19	480	84	2135	78	1975	13	330	2 sets	EAX	96	2438	4	154	70	146	66	20	9	1121	509
SVP 2886	72	1830	28	710	86	2185	80	2030	22	560	3 sets	EAX	98	2489	6	232	106	149	68	20	9	1697	772
SVP 3386	72	1830	33	840	86	2185	80	2030	27	685	4 sets	EAX	98	2489	8	274	124	149	68	20	9	2148	976
SVP 3786	72	1830	37	940	86	2185	80	2030	31	785	4 sets	EAX	98	2489	8	307	139	149	68	20	9	2237	1017
SVP 2897	84	2135	28	710	97	2465	90	2285	22	560	3 sets	EAX	109	2768	6	262	119	166	75	20	9	1871	850

200 p.s.i. (14 kg/cm sq.) units suitable for splicing steelcord conveyor belting.

SVP 2643	32	815	26	660	43	1090	40	1015	12	305	3 sets	EA	55	1397	6	108	49	68	31	18	8	1001	455
SVP 2843	32	815	28	710	43	1090	40	1015	14	355	3 sets	EA	55	1397	6	116	53	68	31	18	8	1025	466
SVP 3343	32	815	33	840	43	1090	40	1015	19	485	4 sets	EA	55	1397	8	137	62	68	31	18	8	1259	572
SVP 3743	32	815	37	940	43	1090	40	1015	23	585	4 sets	EA	55	1397	8	153	70	68	31	18	8	1308	594
SVP 2850	38	965	28	710	50	1270	46	1180	14	355	3 sets	EA	62	1574	6	135	61	77	35	18	8	1124	511
SVP 3350	38	965	33	840	50	1270	46	1180	19	485	4 sets	EA	62	1574	8	159	72	77	35	18	8	1384	629
SVP 4250	38	965	42	1065	50	1270	46	1180	28	710	5 sets	EA	62	1574	10	202	92	77	35	18	8	1698	772
SVP 2856	44	1120	28	710	56	1420	52	1320	14	355	3 sets	EAX	68	1727	6	151	69	103	47	20	9	1335	607
SVP 3756	44	1120	37	940	56	1420	52	1320	23	585	4 sets	EAX	68	1727	8	200	91	103	47	20	9	1719	781
SVP 4256	44	1120	42	1065	56	1420	52	1320	28	710	5 sets	EAX	68	1727	10	227	103	103	47	20	9	2043	928
SVP 2658	46	1170	26	660	58	1475	54	1370	12	305	3 sets	EAX	70	1778	6	145	66	106	48	20	9	1335	607
SVP 3358	46	1170	33	840	58	1475	54	1370	19	485	4 sets	EAX	70	1778	8	185	84	106	48	20	9	1698	772
SVP 3758	46	1170	37	940	58	1475	54	1370	23	585	4 sets	EAX	70	1778	8	207	94	106	48	20	9	1761	800
SVP 4558	46	1170	45	1140	58	1475	54	1370	31	785	5 sets	EAX	70	1778	10	252	114	106	48	20	9	2140	973
SVP 2862	50	1270	28	710	62	1575	57	1460	14	355	3 sets	EAX	74	1879	6	167	76	112	51	20	9	1429	650
SVP 3365	52	1320	33	840	65	1650	60	1530	19	485	4 sets	EAX	77	1955	8	207	94	117	53	20	9	1838	836
SVP 3665	52	1320	36	915	65	1650	60	1530	22	560	4 sets	EAX	77	1955	8	226	103	117	53	20	9	1890	859
SVP 4068	55	1395	40	1015	68	1725	63	1600	26	660	5 sets	EB	80	2032	10	262	119	134	61	22	10	2457	1117
SVP 2469	56	1420	24	610	69	1750	64	1625	10	255	3 sets	EAX	81	2057	6	160	73	123	56	20	9	1467	667
SVP 2871	58	1470	28	710	71	1800	66	1675	14	355	3 sets	EB	83	2108	6	192	87	139	63	22	10	1663	756
SVP 3371	58	1470	33	840	71	1800	66	1675	19	485	4 sets	EAX	83	2108	8	226	103	126	57	20	9	1958	890
SVP 3671	58	1470	36	915	71	1800	66	1675	22	560	5 sets	EB	83	2108	10	246	112	139	63	22	10	2461	1118
SVP 4471	58	1470	44	1115	71	1800	66	1675	30	765	6 sets	EB	83	2108	12	301	137	139	63	22	10	2934	1334
SVP 4273	60	1525	42	1065	73	1850	68	1720	28	710	6 sets	EB	85	2159	12	296	134	143	65	22	10	2957	1344
SVP 2886	72	1830	28	710	86	2185	80	2025	14	355	4 sets	EB	98	2489	8	232	106	165	75	22	10	2288	1040
SVP 3386	72	1830	33	840	86	2185	80	2025	19	485	4 sets	EC	100	2540	8	274	124	248	113	36	16	3181	1446
SVP 3786	72	1830	37	940	86	2185	80	2025	23	585	5 sets	EB	98	2489	10	307	139	165	75	22	10	2863	1301
SVP 2897	82	2085	28	710	97	2465	90	2285	14	355	3 sets	E380	111	2819	6	262	119	320	145	41	19	3033	1379

- Specifications are subject to change without notice.
- Integral cooling standard on all units.
- Total weights include electrical control panel, cable sets and set-up templates for all models and includes HPP20-4 with 200 p.s.i. units.
- Temperature adjustable between (93 - 163 deg. C).
- Sectional vulcanizers are built on a 22 degree bias with a left hand lead.
- Custom sizes, rectangular configurations and multiple platen arrangements available on request.

5.3 - MVP - Lightweight Vulcanizer

ALMEX

The versatile MVP Lightweight Vulcanizer from Shaw Almex is the preferred press for splicing PVC, Polyurethane, and Polyester Monofilament synthetic belting. Assembled with quality Almex components, the MVP includes the following advanced technology:

FEATURES

- Signature Almex “Pressure Bag” uniform pressure system
- Custom “Extruded Plank” cooling system with platens
- Innovative “Silicone Element” fast heating system
- Sturdy, two-piece aluminum frame (easy to maneuver)
- Choice of a proven “T-Series” Temperature Control Panel
- Reliable Almex air pressure pump (optional)
- All electronics approved by CE and ETL and conform to UL and CSA standards.
- Each MVP is built-to-order
- Optional cantilever stand (for shop use) and pneumatic upper platen lift available by request
- Available with new fast cycle elements

Specifications

- **PLATENS** Custom extruded plank, silicone heating element and durable composite insulating packaging assembled in flexible platen that fully assumes contour of belt. Efficient heating/cooling cycle with maximum platen temperature of 200°C (392°F). Two normal platen widths are available, 125mm (5”) platen offered in lengths of 355mm to 2185mm (14” to 86”). 200mm (8”) platen available in lengths of 355mm to 810mm (14” to 124”). Weight of press varies from 15 to 385 kg (34 to 847 lbs).

- **FRAME** Two-piece durable aluminum frame is designed for easy placement around belt when take-up is difficult. Lower platen can be removed from fram for special sleeve splicing procedures. Press can be mounted to cantilever stand for regular shop use.

- **CONTROL PANEL** T1R, T2 and T3 Control Panels will accomodate various amp and volt requirements. Panel with additional timer (T2T and T3T) or fully automatic operation feature, including pressure and cooling functions, also available (T2TC and T3TC).

- **PRESSURE/COOLING** MPV has a maximum operating pressure of 2.8 kg/cm2 (40 psi) that is applied with down-stroking pressure from signature Almex pressure bag (ensures equal pressure). Regulatory air pressure control mounted in frame. Cooling liquid channeled through extruded platens using in plant water or optional portable cooling systems C1 and C1M.

5.4 - MPX - Lightweight Press

ALMEX

The MPX Lightweight Vulcanizer from Shaw Almex is designed for fast and dependable belt splicing with P.V.C, Polyurethane and Polyester Monofilament synthetic belting. Constructed using the unparalleled pressing technology from Almex, every MPX is built with:

FEATURES

- Signature Almex “Pressure Bag” uniform pressure system
- Custom “Extruded Plank” cooling system with platens
- Innovative “Silicone Element” fast heating system
- Sturdy, two-piece aluminum frame (easy to maneuver)
- Choice of a proven “T-Series” Temperature Control Panel
- Reliable Almex air pressure pump (optional)
- Low wattage MPX available by request for special site requirements.
- Available with new fast cycle elements.

Specifications

- **PLATENS** Standard platen witdth is 150mm (6”). MPX 1.5 platens can be 355mm to 1625 (14” to 64”) in length. MPX 2.2 can be 355mm to 1320mm (14”to 52”) in length. Weight of equipment spans from 15kg to 88kg (323 lbs to 195 lbs).Custom extruded plank, silicone heating element, and durable composit insulating packaging, assembled in flexible platen that fully assumes contour of belt. Efficient heating/cooling cycle with mamimum platen temperature of 200°C (392°F).

- **FRAME** Two-piece durable aluminum frame is easy for single user to position on belt. MPX frame profile is exceptionally low, with height reanging from only 205mm (8”) to 285mm (11.25”).

- **CONTROL PANEL** T1R, T2 and T3 Control Panels will accomodate various amp and volt requirements. Panel with additional timer (T2T and T3T) or fully automatic operation feature, including pressure and cooling functions, also available (T2TC and T3TC).

- **PRESSURE/COOLING** MPX built-to order with operating pressure of either 1.5kg/cm2 (20 psi) or 2.2 kg/cm2 (30 psi). Uniform pressure guaranteed with Almex pressure bag (air system). Cooling liquid channeled through extruded platens using in plant water or optional portable cooling systems C1 and C1M.

5.5 - PVC Belt Finger Punches

The finger punches are designed for punching single finger and fingerover- finger designs in lightweight PVC and PU type belts. These punches are lightweight and portable for both shop and field use.

MODEL	BELT WIDTH		OVERALL DIMENSIONS (L x W x H)		WEIGHT	
	IN	MM	IN	MM	LB	KG
AFP 400-F	16	400	24 x 10 x 12	600 x 250 x 290	33	15
AFP 800-F	32	800	40 x 10 x 12	1000 x 250 x 290	38	17
AFP 1200-F	47	1200	55 x 10 x 12	1400 x 250 x 290	44	20
AFP 1600-F	63	1600	71 x 10 x 12	1800 x 250 x 290	49	22
AFP 2400-F	95	2400	103 x 10 x 12	2600 x 250 x 290	77	35
AFP 3000-F	118	3000	126 x 10 x 12	3200 x 250 x 290	99	45
AFP 400-S	16	400	24 x 14 x 12	600 x 340 x 290	66	30
AFP 800-S	32	800	40 x 14 x 12	1000 x 340 x 290	88	40
AFP 1200-S	47	1200	55 x 14 x 12	1400 x 340 x 290	99	45
AFP 1600-S	63	1600	71 x 14 x 12	1800 x 340 x 290	110	50
AFP 2400-S	95	2400	103 x 14 x 12	2600 x 340 x 290	165	75
AFP 3000-S	118	3000	126 x 14 x 12	3200 x 340 x 290	190	86

Above specifications are approximate and are subject to change without notice.

Standard Items:

- Maximum belt thickness is 6 mm depending on porosity
- Punching unit with hydraulic cylinder
- Standard Blades 80 x 20mm
- Standard units include hydraulic hand pump & hose
- Limit stops & belt holding clamps
- Cutting board with standard blades
- Other blade sizes & types available

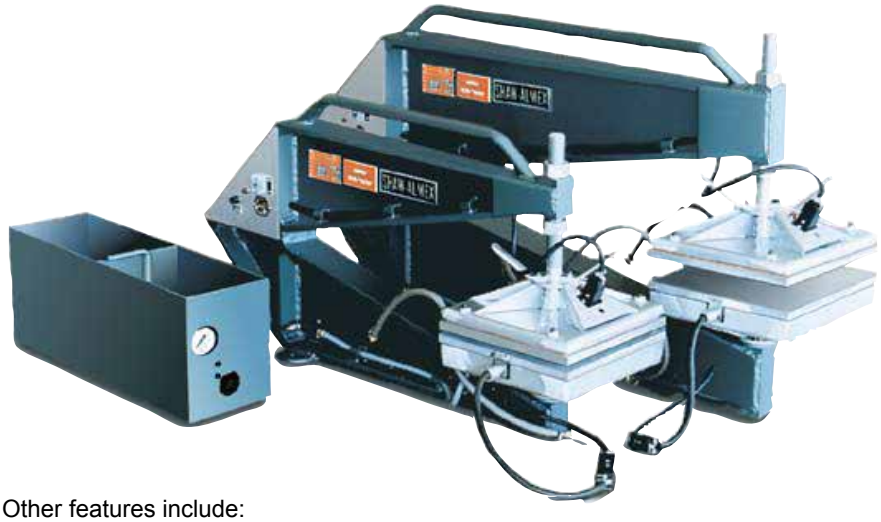
5.6 - Spot Repair Presses

SUPERSPOTTER VULCANIZERS
Operating Pressures up to 5 kg/cm²

The ALMEX Superspotter vulcanizer, designed for spot repair, is the most lightweight, portable repair vulcanizer offered by Shaw-Almex.

The SSP model is a `one-man' repair press, allowing one person to carry the press to the repair location, assemble the vulcanizer, and effect the repair.

The ease of transport and operation means a very fast cycle to minimize conveyor downtime.

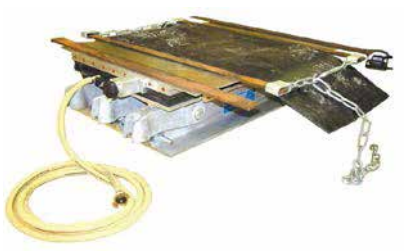


Other features include:
- low profile for repairs in confined locations.
- integral water cooling for faster repairs.
- interchangeable 110/220 voltage on each press.
- convenient carrying case for platens and accessories.

Suitable for repairs to both fabric and steelcord belts up to 1980 mm wide. Maximum pressure of (5 kg/cm²).

PART No.	PLATEN SIZE	MAXIMUM BELT WIDTH	WEIGHT		TEMPERATURE RANGE
			FRAMEPLATENS & CASE		
	MM	MM	KG	KG	ºC
4510126030	300 x 300	1525	23	25	104 - 163
4510127830	300 x 300	1980	43	25	104 - 163

5.7 - Accessories

	Wedges for vulcanizing presses (50 mm wide)		
404 299 1070	**2 Wedges 1200 x 50 x 3 mm**	2,60 Kg	 Steel wedges
404 299 1071	**2 Wedges 1200 x 50 x 4 mm**	3,60 Kg	
404 299 1096	**2 Wedges 1200 x 50 x 5 mm**	4,60 Kg	
404 299 1097	**2 Wedges 1200 x 50 x 6 mm**	5,50 Kg	
404 299 1098	**2 Wedges 1200 x 50 x 7 mm (4+3)**	6,30 Kg	
404 299 1099	**2 Wedges 1200 x 50 x 8 mm**	7,40 Kg	
404 299 1100	**2 Wedges 1200 x 50 x 9 mm (5+4)**	8,30 Kg	
404 299 1101	**2 Wedges 1200 x 50 x 10 mm**	9,30 Kg	
404 299 1102	**2 Wedges 1200 x 50 x 11 mm (6+5)**	10,20 Kg	
404 299 1103	**2 Wedges 1200 x 50 x 12 mm**	11,30 Kg	
404 299 1104	**2 Wedges 1200 x 50 x 13 mm (8+5)**	12,00 Kg	
404 299 1105	**2 Wedges 1200 x 50 x 14 mm**	12,80 Kg	
404 299 1106	**2 Wedges 1200 x 50 x 15 mm**	16,00 Kg	
404 299 1107	**2 Wedges 1200 x 50 x 16 mm**	14,80 Kg	
404 299 1072	**2 Wedges 1200 x 50 x 17 mm (12+5)**	16,00 Kg	
404 299 1073	**2 Wedges 1200 x 50 x 18 mm**	16,60 Kg	
404 299 1074	**2 Wedges 1200 x 50 x 19 mm (15+4)**	17,60 Kg	
404 299 1075	**2 Wedges 1200 x 50 x 20 mm**	18,40 Kg	
404 299 1076	**2 Wedges 1200 x 50 x 21 mm (15+6)**	19,40 Kg	
404 299 1077	**2 Wedges 1200 x 50 x 22 mm (12+10)**	20,00 Kg	
404 299 1108	**Brace of wedges 1,200 x 50 mm (both)** Chain Ø 6 mm 1800 mm long	1,40 Kg	
	Wedges for vulcanizing presses (80 mm wide)		 Steel wedges
404 299 1078	**2 Wedges 2000 x 80 x 4 mm**	10,88 Kg	
404 299 1079	**2 Wedges 2000 x 80 x 5 mm**	13,82 Kg	
404 299 1080	**2 Wedges 2000 x 80 x 6 mm**	16,32 Kg	
404 299 1081	**2 Wedges 2000 x 80 x 8 mm**	21,76 Kg	
404 299 1082	**2 Wedges 2000 x 80 x 9 mm (5+4)**	24,51 Kg	
404 299 1089	**2 Wedges 2000 x 80 x 10 mm**	27,21 Kg	
404 299 1090	**2 Wedges 2000 x 80 x 11 mm (6+5)**	29,92 Kg	
404 299 1091	**2 Wedges 2000 x 80 x 12 mm**	32,64 Kg	
404 299 1092	**2 Wedges 2000 x 80 x 13 mm (8+5)**	35,36 Kg	
404 299 1093	**2 Wedges 2000 x 80 x 14 mm (8+6)**	38,08 Kg	
404 299 1094	**2 Wedges 2000 x 80 x 15 mm**	40,82 Kg	
404 299 1095	**2 Wedges 2000 x 80 x 16 mm (10+6)**	43,52 Kg	
404 299 1083	**2 Wedges 2000 x 80 x 17 mm (12+5)**	46,24 Kg	
404 299 1084	**2 Wedges 2000 x 80 x 18 mm (12+6)**	48,96 Kg	
404 299 1085	**2 Wedges 2000 x 80 x 19 mm (15+4)**	51,68 Kg	
404 299 1086	**2 Wedges 2000 x 80 x 20 mm**	54,41 Kg	
404 299 1087	**2 Wedges 2000 x 80 x 21 mm (15+6)**	57,12 Kg	
404 299 1088	**2 Wedges 2000 x 80 x 22 mm (12+10)**	60,52 Kg	
404 299 1110	**Brace of wedges 2,000 x 80 mm (both)** Chain Ø 8 mm 2700 mm long	2,4 Kg	
404 299 1153	**Clamp 250 mm**	1,50 Kg	
404 299 1013	**Clamp with pump 400 mm**	2,25 Kg