

WORLD PRIME SERVICES

CONVEYOR BELT VULCANIZERS

Machinery & Service Equipment for Rubber Conveyor Belts



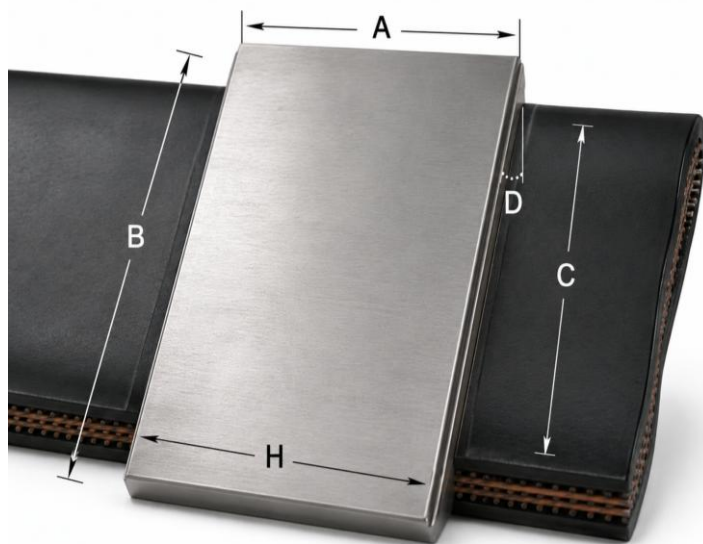
TECHNICAL PRODUCT CATALOG

Technical Questions for Belt Vulcanizer

TECHNICAL INFORMATION SHEET

Kindly reply this questionnaire to the best of our knowledge.

Vulcanizing Press for rubber conveyor belt



A= Length of platen along belt

B= Width of platen across the belt on the bias

C= Belt width

D= Bias angle

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 according to the belt width.

- For fabric belt and 22 degree bias angle: $B=(C+150) \times 1.07$

- For fabric belt and 17 degree bias angle: $B=(C+150) \times 1.05$

- For steelcord belt and 22 degree bias angle: $B=(C+200) \times 1.07$

- For steelcord belt and 17 degree bias angle: $B=(C+200) \times 1.05$

Type of splice: (please highlight the required)

- Rhombic 17.3 (Standard)
- Rhombic 22°
- Rectangular.

Dimension of Platen:

If you require more than one set platens, please tell us how you want to separate the platens

- Value of A
- Value of B or Belt Width

Max Belt width in mm	Belt type (EP/STEEL CORD)	Belt Class e.g.EP 630/4 or ST 2000	Splice length as per belt supplier's recommendation*
Pressure:(please highlight the required)		Press Style:(please highlight the required)	
● 100PSI (7 kg/cm sq.) ● 150PSI (10 kg/cm sq.) ● 200PSI (14 kg/cm sq.)		● Modular/ Sectional ● 2 Piece Frame	
Kind of Electricity used:		Others:	
● Voltage: 220V/380V/415V/440V/480V ● Phase: Single or 3 phases ● Frequency: 50Hz or 60Hz		● Which brand of machine was used before and whether there were any technical failure	

Conveyor Belt Sectional Vulcanizer

DSLQ-S



World Prime Services sectional vulcanizers are configured for hot vulcanized splicing of fabric-ply EP rubber conveyor belts and steel-cord ST rubber conveyor belts. Working-pressure configurations are available at 100 PSI and 200 PSI, with modular sections designed for field portability and adaptation to different splice lengths.

Technical Description:

Heating platen within water cooling system

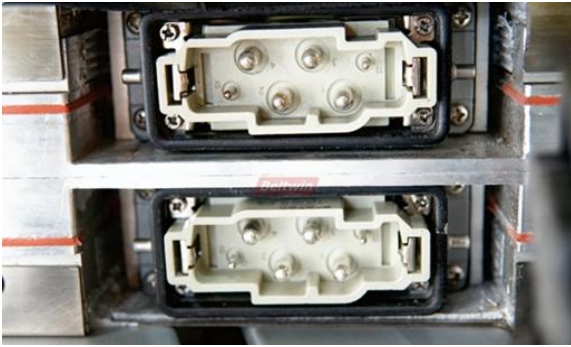
- 53mm total thickness of Beltwin heating platen, insulating board covered by stainless steel (thickness 1.5~2mm). Max temperature 200°C, 20~30mins can heat up to 145°C, the temperature difference of the whole surface is under $\pm 5^{\circ}\text{C}$ when dwell time.
- Quick integral water cooling incorporated in platen design, even if cooling via electric pressure pump is workable. 10~15mins fast cooling down from 145°C to 75°C.
- Different from other vulcanizers, Beltwin's newly designed cooling system ensures less residual water after long-term use. Easy to clean the 10% remaining water in the platen with compressed air after cooling.



MODEL	DSLQ-S	VOLTS	380
DIMENSION	600 x 600	POWER	5.5 kW
WEIGHT	75 kg	AMPS	7 A

MODEL	DSLQ-S	VOLTS	200
DIMENSION	600 x 600	POWER	5.5 kW
WEIGHT	75 kg	AMPS	7 A

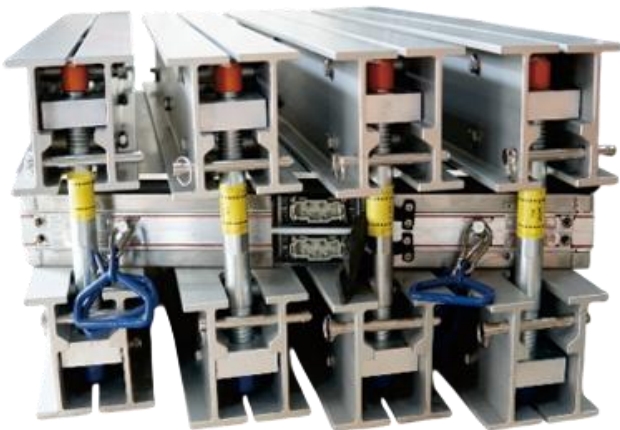
New electrical connector



World Prime Services uses the European standard plugs & Sockets, with CE marks. The pins is bigger size, to avoid loose contact and burn the socket. The new type connect system can reduce this risk 70~80%. Original "HARTING" brand connector is optional.

Heating Element

- 5 layers durable "Silicone Element" heating system (2 silicone layers, 2 glass fiber fabric layers and heater.)
- Durable composite insulation makes it much safer.
- Completed sealed to prevent oxidation, and ensure a longer lifetime.
- Flexible heating element offers uniform heating of the whole heating platen.
- Adopting etching technology, under computer control, equalizing distribution of the heater and evenly spaced.



Light weight Beams with bolt & nut set

- The beams are made of lightweight extruded aluminum.
- Standard beams use grade 7005 aluminum material, beam for over 1200mm belt width vulcanizer use grade 6082 aluminum material. Almex style E type cross beam is optional.
- Recessed high tensile steel nut/bolt assemblies, made of material 45# steel.
- Nut and bolt within the beam, much safer.
- Beams with anodizing, compared with painting, can offer longer protection and looks much better.
- Completed section makes sure the beam structure will keep as original, much safer.
- Easy to assemble, no need to use a tension wrench.

Pressure System

- Pressure bag made of durable fabric-reinforced rubber ensures uniform pressure across splice surface. The rubber inner bag expansion rate is 600-700, about 200-300% higher than others. For example, can extend one pc 200mm long rubber to 1000mm and no damage. It will make sure the rubber will not have small holes after expend, so it will not leakage after a long time of use.
- The rubber material is 3 times higher cost than normal rubber.
- Pressure bag includes inner bag, fabric, rubber layer and outside protection layer.

After production, the bag is tested to keep 260PSI/18 BARS pressure keep 2 hours, making sure it will not have any problem at 200PSI working pressure.



Standard:

Electric pressure/cooling pump.



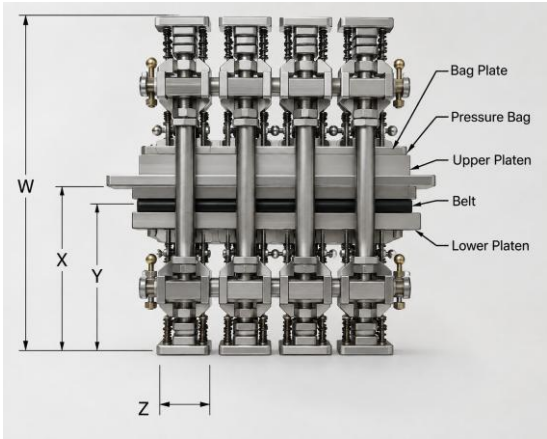
Auto controller with cables

- Include 2 temperature controllers, 1pc timer, 2 pcs amperemeters and 1 pc voltmeter.
- Dual Omron or SHIMADEN digital temperature control and indication.
- The same standard as Almex, It's easy to replace your old Almex control system, being more flexible and saving costs.
- Accurate temperature and read out, CE-approved electric components.



Optional:

Almex style E type cross beam



Beam Model	EA		EAX		EB		EC		E380		E430	
	in	mm	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	36.5	927
X	9.75	248	12.5	318	15	381	15	381	17	432	19	483
Y	7.75	197	10.5	267	13	330	13	330	15	381	17	430
Z	7	178	7	178	6	152	6.5	165	6.5	165	6.5	165

Pressure Pump With Pressure Control Gauge



Suitcase Type Control Box



Optional:
Pressure/cooling pump with 90L water tank.



Digital display air compressor.



Optional:

Heating Platen Drawing:

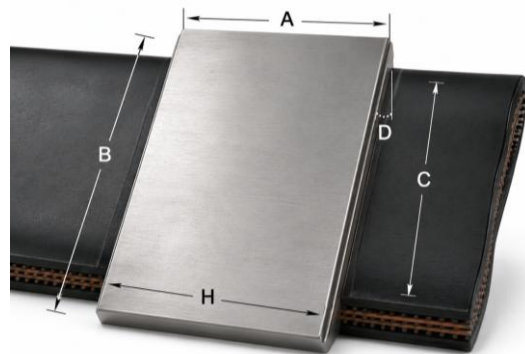
A= Length of heating platen along belt

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

C= Belt width

D= Bias angle

H= Vertical length of platen



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

Model Number	Belt Width	Platen Information				Bias Angle (D)	Power Of Platen	Length Of Beams	Quantity Of Beams
	C	Dimension	H	A	B			mm	Piece
mm	mm	L*W*H mm	mm	mm	mm		KW	L*W*H mm	
DSLQ-S 800×830	800	950*830*55	830	870	950	17.3	9	1220*165*170	8
DSLQ-S 800×1000	800	950*1000*55	1000	1050	950	17.3	11	1220*165*170	10
DSLQ-S 1000×660	1000	1160*660*55	660	690	1160	17.3	7.5	1440*165*170	6
DSLQ-S 1000×830	1000	1160*830*55	830	870	1160	17.3	11.5	1440*165*170	8
DSLQ-S 1000×1000	1000	1160*1000*55	1000	1050	1160	17.3	14	1440*165*170	10
DSLQ-S 1200×660	1200	1380*660*55	660	690	1380	17.3	11	1660*165*250	6
DSLQ-S 1200×830	1200	1380*830*55	830	870	1380	17.3	13	1660*165*250	8
DSLQ-S 1200×1000	1200	1380*1000*55	1000	1050	1380	17.3	16	1660*165*250	10
DSLQ-S 1400×660	1400	1600*660*55	660	690	1600	17.3	12	1880*165*250	6
DSLQ-S 1400×830	1400	1600*830*55	830	870	1600	17.3	16	1880*165*250	8
DSLQ-S 1400×1000	1400	1600*1000*55	1000	1050	1600	17.3	19	1880*165*250	10
DSLQ-S 1600×660	1600	1900*660*55	660	690	1900	17.3	15	2180*165*250	6
DSLQ-S 1600×830	1600	1900*830*55	830	870	1900	17.3	19	2180*165*250	8
DSLQ-S 1600×1000	1600	1900*1000*55	1000	1050	1900	17.3	22	2180*165*250	10
DSLQ-S 1800×660	1800	2100*660*55	660	690	2100	17.3	16	2400*165*250	6
DSLQ-S 1800×830	1800	2100*830*55	830	870	2100	17.3	21	2400*165*320	8
DSLQ-S 1800×1000	1800	2100*1000*55	1000	1050	2100	17.3	25	2400*165*320	10
DSLQ-S 2000×660	2000	2300*660*55	660	690	2300	17.3	18	2600*165*320	6
DSLQ-S 2000×830	2000	2300*830*55	830	870	2300	17.3	23	2600*165*320	8
DSLQ-S 2000×1000	2000	2300*1000*55	1000	1050	2300	17.3	28	2600*165*320	10
DSLQ-S 2200×660	2200	2500*660*55	660	690	2500	17.3	20	2800*165*320	6
DSLQ-S 2200×830	2200	2500*830*55	830	870	2500	17.3	25	2800*165*320	8
DSLQ-S 2200×1000	2200	2500*1000*55	1000	1050	2500	17.3	30	2800*165*320	10

Heating Platen Drawing:

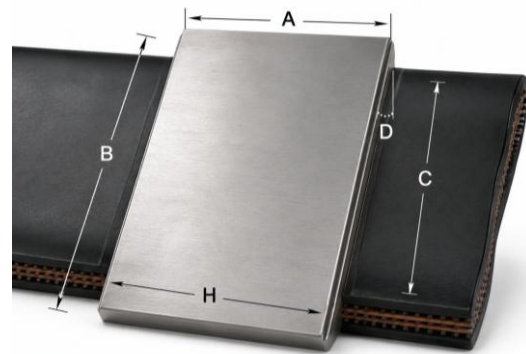
A= Length of heating platen along belt

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

C= Belt width

D= Bias angle

H= Vertical length of platen



200PSI (14kg/cm sq.) units suitable for splicing steel cord conveyor belting.

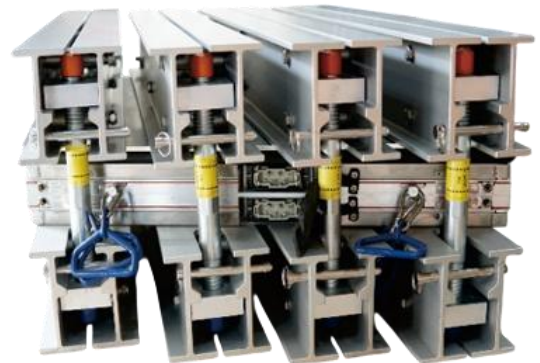
Model Number	Belt Width	Platen Information				Bias Angle (D)	Power Of Platen	Length Of Beams	Quantity Of Beams
	C	Dimension	H	A	B				
mm	mm	L*W*H mm	mm	mm	mm		KW	L*W*H mm	Piece
DSLQ-S 800×830	800	950*830*55	830	870	950	17.3	9	1220*165*170	12
DSLQ-S 800×1000	800	950*1000*55	1000	1050	950	17.3	11	1220*165*170	8
DSLQ-S 1000×660	1000	1160*660*55	660	690	1160	17.3	7.5	1440*165*170	10
DSLQ-S 1000×830	1000	1160*830*55	830	870	1160	17.3	11.5	1440*165*170	12
DSLQ-S 1000×1000	1000	1160*1000*55	1000	1050	1160	17.3	14	1440*165*170	8
DSLQ-S 1200×660	1200	1380*660*55	660	690	1380	17.3	11	1660*165*250	10
DSLQ-S 1200×830	1200	1380*830*55	830	870	1380	17.3	13	1660*165*250	12
DSLQ-S 1200×1000	1200	1380*1000*55	1000	1050	1380	17.3	16	1660*165*250	8
DSLQ-S 1400×660	1400	1600*660*55	660	690	1600	17.3	12	1880*165*250	10
DSLQ-S 1400×830	1400	1600*830*55	830	870	1600	17.3	16	1880*165*250	12
DSLQ-S 1400×1000	1400	1600*1000*55	1000	1050	1600	17.3	19	1880*165*250	8
DSLQ-S 1600×660	1600	1900*660*55	660	690	1900	17.3	15	2180*165*250	10
DSLQ-S 1600×830	1600	1900*830*55	830	870	1900	17.3	19	2180*165*250	12
DSLQ-S 1600×1000	1600	1900*1000*55	1000	1050	1900	17.3	22	2180*165*320	8
DSLQ-S 1800×660	1800	2100*660*55	660	690	2100	17.3	16	2400*165*320	10
DSLQ-S 1800×830	1800	2100*830*55	830	870	2100	17.3	21	2400*165*320	12
DSLQ-S 1800×1000	1800	2100*1000*55	1000	1050	2100	17.3	25	2400*165*320	8
DSLQ-S 2000×660	2000	2300*660*55	660	690	2300	17.3	18	2600*165*320	10
DSLQ-S 2000×830	2000	2300*830*55	830	870	2300	17.3	23	2600*165*320	12
DSLQ-S 2000×1000	2000	2300*1000*55	1000	1050	2300	17.3	28	2600*165*320	8
DSLQ-S 2200×660	2200	2500*660*55	660	690	2500	17.3	20	2800*165*320	10
DSLQ-S 2200×830	2200	2500*830*55	830	870	2500	17.3	25	2800*165*320	12
DSLQ-S 2200×1000	2200	2500*1000*55	1000	1050	2500	17.3	30	2800*165*320	8

Accessory List

Aluminum Cross Beam



Built-in Bolt



Safety Pin



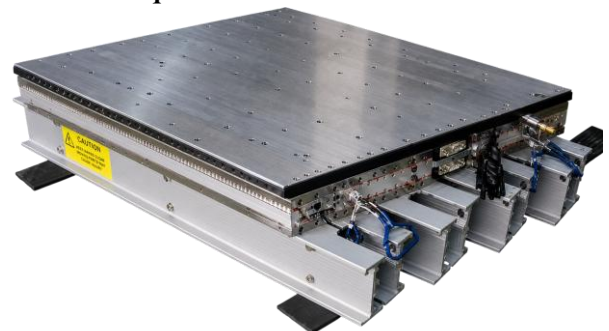
Heating Platen



Pressure Bag



Pressure Equalization Plat



Control Box



Input Cable



Output Cable



Electric Pump



High-pressure Pipe



Cooling System Pipe Blue cold water inlet



Drain Pipe Red hot water outlet



Connector Clip



Fuse Protector



Quick Coupling





Spare Parts For SVP Sectional Vulcanizer

E Type Traverse Bar



Pressure Bag



"PRO Series" Pressure Bag



Heating Platen



Plug& Socket



Heating Element



Control Box



Pump With Pressure Control



90L Water Tank Pump

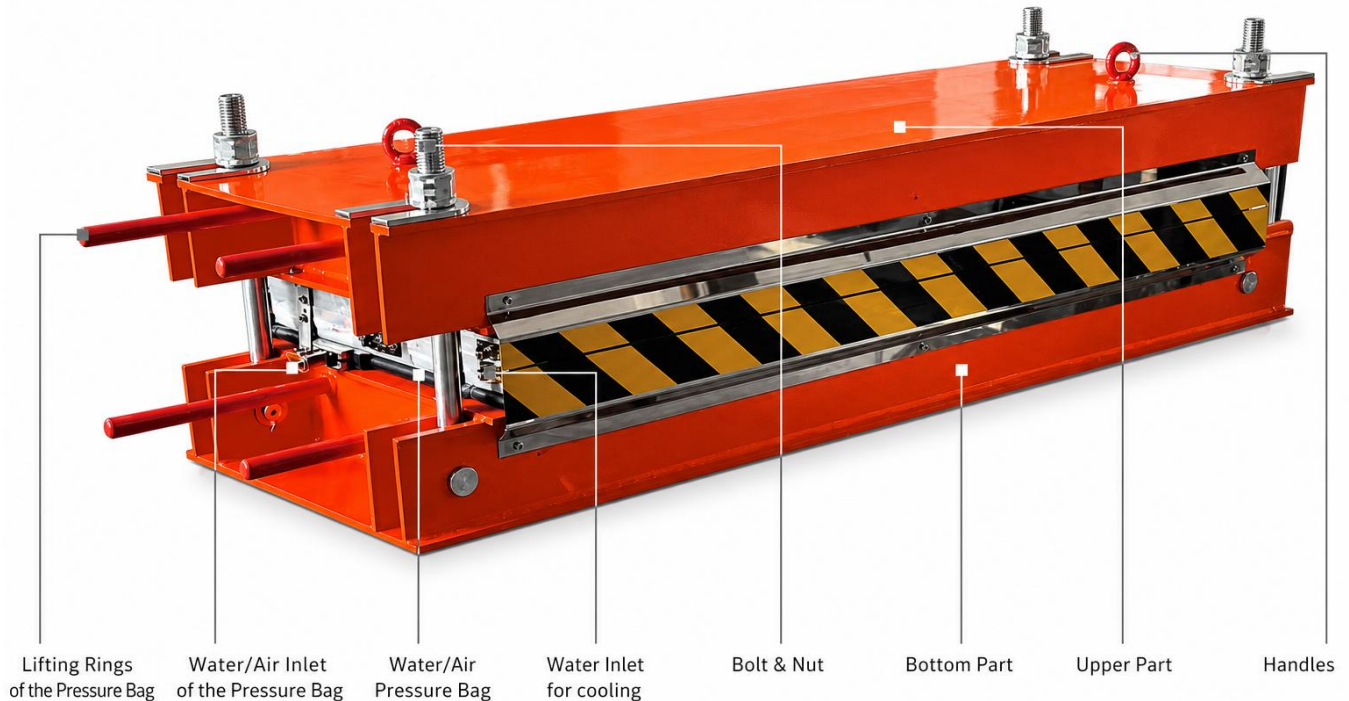


Suitcase Controller



Conveyor Belt Frame Vulcanizer DSLQ-F

2-piece press, aluminum frame style, designed for quick and easy operation, easy to move to any position, lightweight and high working efficiency.



Automatic control panel:

With time control and digital temperature control. All the parts use high-quality electric devices with CE certification.



2PCS High Quality Welded Aluminum Frame



**Top Frame include Upper Heating Platen
Bottom Frame include lower heating platen & Pressure Bag**

Heating Platen Drawing

A= Length of heating platen along belt

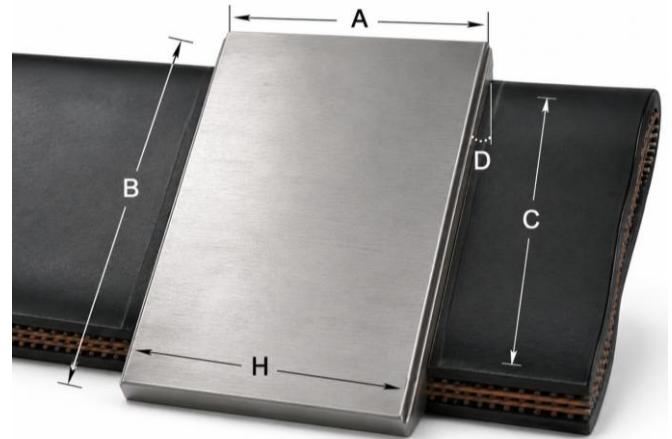
B= Width of heating platen across the belt on the bias

C= Belt width

D= Bias angle

H= Vertical length of platen

- Maximum operating pressure 100PSI.
- Maximum temperature 325°F (160°C)
- Heating Platen Dimension: (other dimension pls freely to contact with us)



RECTANGULAR MODELS (90° Bias)

Platen Size		Max Belt Width	
in	mm	in	mm
14x20	355x510	18	450
14x26	355x660	24	600
14x34	355x865	30	750
18x42	455x1065	38	950
14x46	355x1170	42	1050
18x46	455x1170	42	1050
26x46	660x1170	42	1050
18x52	455x1320	48	1200
14x54	355x1370	50	1250
18x64	455x1620	60	1500

1.RHOMBOID MODELS (22° Bias)

Platen Size		Max Belt Width	
in	mm	in	mm
19x24	480x610	20	500
19x30	480x760	24	600
28x30	710x760	24	600
19x37	480x940	32	800
28x37	710x940	32	800
19x43	480x1090	36	900
22x43	560x1090	36	900
28x43	710x1090	36	900
19x50	480x1270	42	1050
28x50	710x1270	42	1050
19x56	480x1420	48	1200
28x56	710x1420	48	1200
19x62	480x1575	54	1350
28x62	710x1575	54	1350
19x70	480x1780	60	1500

Spot Repair Vulcanizer DSLQ-R



Spot Conveyor Belt Repair Presses, light weight, used for rubber conveyor belt spot repair.

Model	DSLQ-R 1600	DSLQ-R 1800	DSLQ-R 2000	DSLQ-R 2400
Max Belt Width	1600mm	1800mm	2000mm	2400mm
Heating Platen Size	350x350mm			
Max Pressure	0.5Mpa (75PSI)			
Voltage	220V Single Phase			
Power	1.7KW			

Special requirements: Voltage, Pressure, Temperature, Heating platen dimension etc. we can make special for you, if you have any requirements.

Repair Vulcanizer For Belt Edge



Spot Repair Vulcanizer DSLQ-RS



Cross Beam Repair Vulcanizer

Operation Pressure 100PSI or 200PSI.



The cross beam repair vulcanizers are designed to customers' requirements on request. Depending on the model and the size of the heating platens, cross beam repair vulcanizers can be used for spot and rip repairs.

Maximum operating pressure 100 PSI (7 kg/cm sq)

Model Number	Platen Size		Max Belt Width	
	in	mm	in	mm
DSLQ-RV1200-500-100	20 X 20	500 X 500	48	1200
DSLQ-RV1500-500-100	20 X 20	500 X 500	60	1500
DSLQ-RV1800-500-100	20 X 20	500 X 500	72	1800
DSLQ-RV2100-500-100	20 X 20	500 X 500	84	2100
DSLQ-RV2400-500-100	20 X 20	500 X 500	96	2400

Maximum operating pressure 200 PSI (14 kg/cm sq)

Model Number	Platen Size		Max Belt Width	
	in	mm	in	mm
DSLQ-RV1800-500-200	20 X 20	500 X 500	72	1800
DSLQ-RV2100-500-200	20 X 20	500 X 500	84	2100
DSLQ-RV2400-500-200	20 X 20	500 X 500	96	2400

