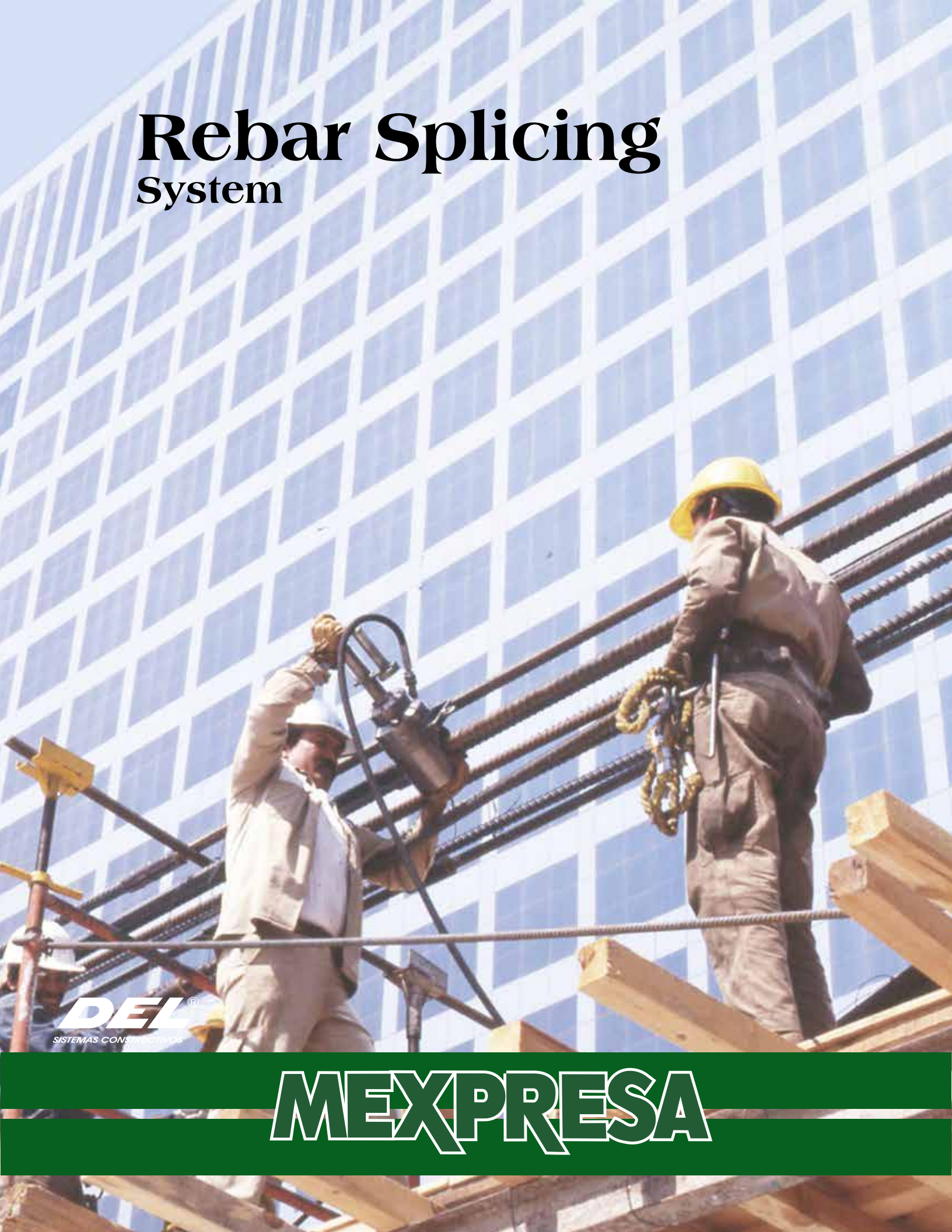


# Rebar Splicing System



**DEL**<sup>®</sup>  
SISTEMAS CONSTRUCTIVOS

**MEXPRESA**



## Features

- Cold-swaged.
- Needs no x-ray control
- Easy to monitor on job site, for quality control.
- Can be used for new construction or for structure repair.
- Exceeds 125% of specified yield.

## Specifications

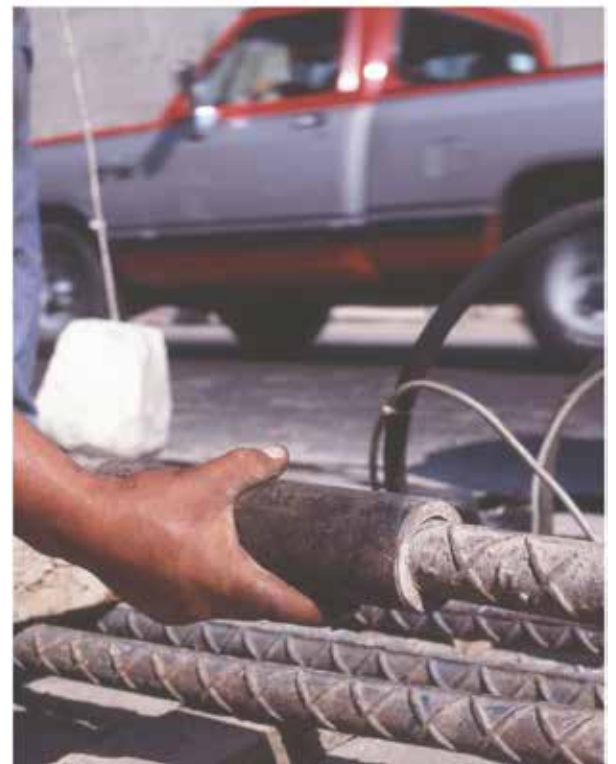
- ACI 318-95, section 12-14-3-4
- ACI 349-76, section 7-5-5
- ASME Section III, Division 2, Section CC-4333,2-3
- United States Corps of Engineers Section 8-18, 7-2
- ICBO cyclic testing.

## Advantages

- Since no heat is needed for splicing, the features of the rebar steel do not go through any changes.
- It is possible to splice rebars of different diameters.
- Splices rebars with any corrugation pattern and with any protection treatment.
- Can be installed in any weather conditions.
- Rebar ends need no special preparation.



Central Hidráulica



# Rebar Splicing System Sequence

- 1** Mark rebar with half coupler's length from its end.

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- 2** Install coupler up to mark.

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- 3** Half of coupler swaged.

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- 4** Insert, second bar, that's already marked, and check its position.

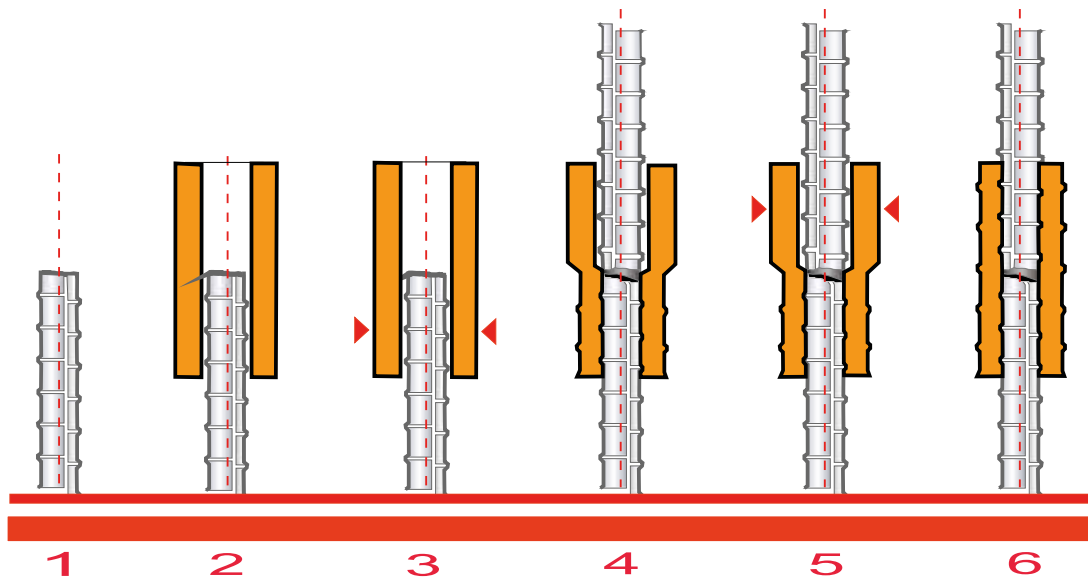
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- 5** Second half of coupler swaged.

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- 6** Sight verification of entire swage.

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# Press space requirements and minimum rebar spacing

**H** - Height for bar above concrete.

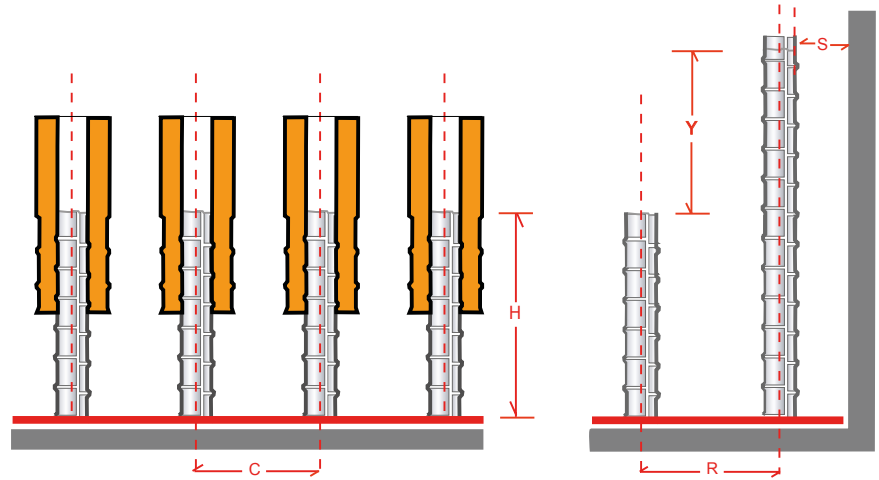
**C** - Distance between bar centers.

**R** - Distance between bar row centers.

**Y** - Difference of height from one row to another.

**S** - Distance of row from form.

Note: These measurements assume:  
The outer die is removed clear of the coupler.  
Rear bars are completely spliced first.



Single Row

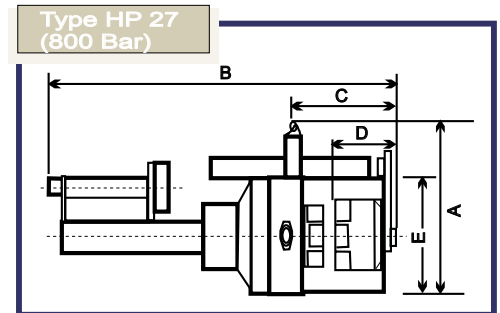
Double Row

Reinforcing bar size	Minimum setting out dimensions									
	H		C		R		Y		S	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.

No.4	184.5	7 <sup>1/4</sup>	155	6 <sup>1/8</sup>	155	6 <sup>1/8</sup>	184.5	7 <sup>1/4</sup>	155	6 <sup>1/8</sup>
No.5	194	7 <sup>5/8</sup>	155	6 <sup>1/8</sup>	155	6 <sup>1/8</sup>	194	7 <sup>5/8</sup>	155	6 <sup>1/8</sup>
No.6	197	7 <sup>3/4</sup>	157.5	6 <sup>3/16</sup>	157.5	6 <sup>3/16</sup>	197	7 <sup>3/4</sup>	157.5	6 <sup>3/16</sup>
No.8	215	8 <sup>1/2</sup>	162.5	6 <sup>3/8</sup>	162.5	6 <sup>3/8</sup>	211.5	8 <sup>1/4</sup>	162.5	6 <sup>3/8</sup>
No.10	231.5	9 <sup>1/8</sup>	168.5	6 <sup>5/16</sup>	168.5	6 <sup>5/8</sup>	231.5	9 <sup>1/8</sup>	168.5	6 <sup>5/16</sup>
No.12	241.5	9 <sup>1/2</sup>	172.5	6 <sup>7/8</sup>	172.5	6 <sup>7/8</sup>	241.5	9 <sup>1/2</sup>	172.5	6 <sup>6/8</sup>

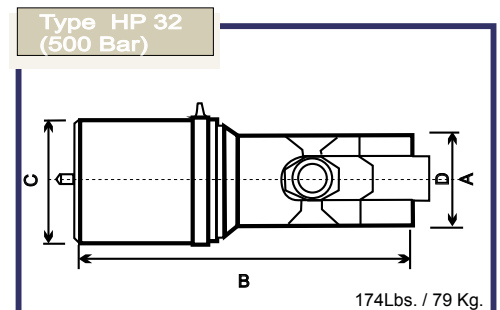
PRESS MODEL	A		B		C / E		D	
	mm	in.	mm	in.	mm	in.	mm	in.
HP 27	263	10 <sup>1/4</sup>	520	20 <sup>1/2</sup>	173	6 <sup>6/8</sup>	90	3 <sup>1/2</sup>

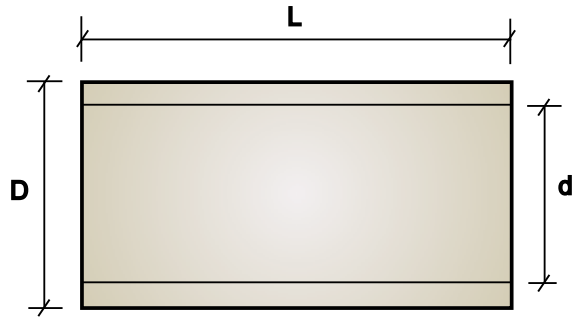
## Press Model



No.4	176.5	7	120	4 <sup>3/4</sup>	220	8 <sup>3/4</sup>	176.5	7	220	8 <sup>3/4</sup>
No.5	185.5	7 <sup>3/8</sup>	120	4 <sup>3/4</sup>	220	8 <sup>3/4</sup>	185.5	7 <sup>3/8</sup>	220	8 <sup>3/4</sup>
No.6	184	7 <sup>1/4</sup>	122.5	4 <sup>7/8</sup>	222.5	8 <sup>3/4</sup>	184	7 <sup>1/4</sup>	222.5	8 <sup>3/4</sup>
No.8	195	7 <sup>3/4</sup>	127.5	5	227.5	9	195	7 <sup>3/4</sup>	227.5	9
No.10	208	8 <sup>1/4</sup>	133.5	5 <sup>1/4</sup>	233.5	9 <sup>1/4</sup>	208	8 <sup>1/4</sup>	233.5	9 <sup>1/4</sup>
No.12	218	8 <sup>1/2</sup>	137.5	5 <sup>1/2</sup>	237.5	9 <sup>3/8</sup>	218	8 <sup>1/2</sup>	237.5	9 <sup>3/8</sup>
No.14	230	9	143	5 <sup>5/8</sup>	243	9 <sup>1/2</sup>	230	9	243	9 <sup>1/2</sup>

PRESS MODEL	A		B		C		D	
	mm	in.	mm	in.	mm	in.	mm	in.
HP 32	150	6	510	20 <sup>1/8</sup>	192	7 <sup>1/2</sup>	80	3 <sup>1/8</sup>





Weight & dimensions of extruded couplers								
Reinforcing bar size	Approximate coupler weight		"d" Approximate inside diameter		"D" Approximate outside diameter		"l" Nominal original length	
	kg.	Lbs.	mm.	In.	mm.	In.	mm.	In.
No.3	0.1	0.22	12.7	1/2	19.1	3/4	60.3	2 3/8
No.4	0.3	0.66	15.9	5/8	30.2	1 3/16	76.2	3
No.5	0.4	0.89	19.1	3/4	30.2	1 3/16	95.3	3 3/4
No.6	0.5	1.10	22.2	7/8	35.0	1 3/8	101.6	4
No.7	0.7	1.54	27	1 1/16	39.7	1 9/16	120.7	4 3/4
No.8	1.0	2.21	29.4	1 5/32	44.45	1 3/4	137	5 3/8
No.9	1.3	2.87	33.3	1 5/16	49.2	1 15/16	140	5 1/2
No.10	2.0	4.41	36.5	1 7/16	57.2	2 1/4	170	6 11/16
No.11	2.2	4.85	41.3	1 5/8	60.3	2 3/8	175	6 7/8
No.12	3.0	6.62	44.45	1 3/4	65	2 9/16	230	9





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Mexico City Airport



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Nayarit



Reforma 222,  
Mexico City



Palacio de Hierro Angelópolis,  
Puebla



Mayor Tower  
Mexico City



WTC,  
Mexico City



Hilton Hotel  
Monterrey, N.L.



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