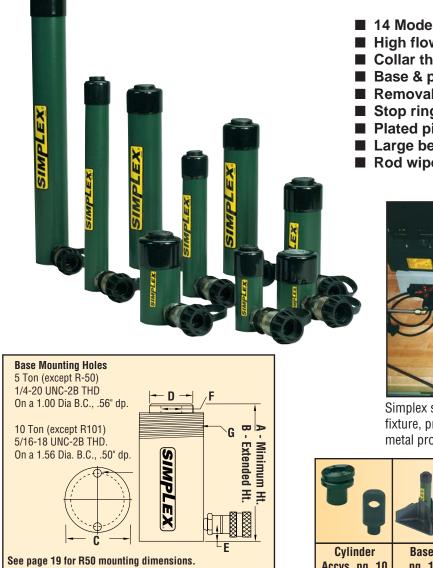
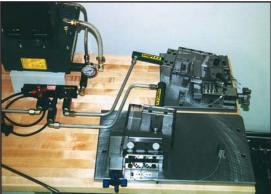
# SPRING RETURN - 5-10 TON

## **CYLINDERS**

### Simplex Cylinders Improve Manufacturing Efficiencies.



- 14 Models.
- High flow quality couplers.
- Collar threads designed for full load.
- Base & piston mountings for easy fixturing.
- Removable load caps for flexibility & safety.
- Stop ring for piston blow-out protection.
- Plated piston to resist scoring & corrosion.
- Large bearings resist side load.
- Rod wiper protects inner cylinder from dirt.



Simplex spring return cylinders, used in this fabricating fixture, provide fast and accurate forming of precision metal products.



### Spring Return Cylinders 5 & 10 Ton Capacities

Model	Cap.	Stroke	A	В	Ram	Effect		Oil	C	D	E		F	(	)		Sugstd.				
Number	(tons)	(in)	Min. Ht. (in)	Ext. Ht. (in)	Bore Dia. (in)	Area (sq in)	@ Cap. (psi)	Cap. Req'd (cu in)	0.D.		Base To Port C/L (in)	Piston I.D. Thrds. (in)	Piston Thrd. Depth (in)	Collar Thrds. (in)	Collar Thrd. Lgth. (in)	Wgt. (Ibs)					
R50		5/8		2 1/4	(/				1.6x2.3		(/	None	None	None	None	2.5					
<b>R</b> 51		1	4 11/32	<b>5</b> 11/32				1.0		1						2.5	P41				
<u>R53</u>	5			<b>9</b> 1/2		1 1/8	00	.99	10 000	10,000	3.0	1 1/2	3.0 1 1/2	1		3/4 x 16	5/8 1	11/2 x 16		3.3	
<u>R55</u>	J			<b>13</b> 1/2		.55	10,000	5.0	1 1/2	•		5/4 × 10			4.0						
<u>R57</u>				17 5/8				7.0							11/8	5.0					
<u>R59</u>		<b>9</b> 1/8	<b>12</b> 3/4	<b>21</b> 7/8				9.1								5.5					
<u>R101</u>		1	<b>3</b> 17/32	4 17/32	- <b>1</b> 11/16			2.2			3/4	None M	None	-		3.5					
R102		2 1/8	4 25/32	<b>6</b> 29/32				5.22								5.2					
R104		<b>4</b> 1/8	<b>6</b> 3/4	<b>10</b> 7/8				9.2								6.3	P42				
R106	10	<b>6</b> 1/8	<b>9</b> 3/4	15 7/8		<b>2.24</b>	8,945	13.7	<b>2</b> 1/4	1 1/2						8.8					
R108	10	8	11 3/4	<b>19</b> 3/4		2.24	0,343	18.0	£ 1/4	1 1/2		1 - 8	3/4	21/4 x 14		10.5					
R1010		10 1/8	<b>13</b> 3/4	23 7/8				22.7	22.7 27.0 31.5							12.0					
R1012		12	<b>15</b> 3/4	27 3/4												13.5					
R1014		14	17 3/4	31 3/4				31.5								15.3					

## **CYLINDERS**

## **SPRING RETURN - 15-25 TON**

Simplex Cylinders Are Perfect For Heavy Maintenance.



- 13 Models.
- High flow quality couplers.
- Collar threads designed for full load.
- Base & piston mountings for easy fixturing.
- Removable load caps for flexibility & safety.
- Stop ring for piston blow-out protection.
- Plated piston to resist scoring & corrosion.
- Large bearings resist side load.
- Rod wiper protects inner cylinder from dirt.



Large steel coils that were damaged in handling are reshaped using a Simplex R256 cylinder and 70 Series pump.

9		Real Property in the second se	
Cylinder	Bases	Hoses	Pump & Cylinder Sets
Accys. pg. 10	pg. 10	pgs. 70-71	pgs. 31-32

#### Spring Return Cylinders 15 & 25 Ton Capacities

Model	Cap.		A	В	Ram	Effect	Pres.	Oil	C	D	E		F	(	3		Sugstd.
Number	(tons)	Stroke (in)	Min. Ht.	Ext. Ht.	Bore Dia.	Area (sq in)	@ Cap. (psi)	Cap. Req'd	Body O.D.		Base To Port C/L		Piston Thrd.	Collar Thrds.	Collar Thrd.	Wgt. (Ibs)	
		(111)	(in)	(in)	(in)	(əq iii)	(621)	(cu in)	(in)	(in)	(in)	(in)	Depth (in)		Lgth. (in)		rump
R152		2	5 7/8	7 7/8				6.3			3/4					8.3	
<u>R154</u>		4	7 7/8	11 7/8	6 <b>2</b>	3.14	9,554	12.6	2 3/4		0/4					10.8	P42
<u>R156</u>	15		<b>10</b> 11/16					19.0		15/8		1 x 8	1	23/4 x 16	5/4 x 16 1 3/16 1 1 2	14.5	
R1510		10	<b>14</b> 11/16	24 11/16				31.4								19.5	P140
<u>R1514</u>		14	<b>18</b> 11/16	32 11/16				44.0								24.5	
R251		1	<b>5</b> 1/2	<b>6</b> 1/2	- 2 9/16		9,700	5.2	10.3 20.6							12.0	
<u>R252</u>		2	<b>6</b> 1/2	8 1/2		5.15		10.3					1 1/8 35/16x12 1 15/16			15.0	P42
R254		4	8 1/2	<b>12</b> 1/2				20.6			1					18.0	142
R256	25	<b>6</b> 1/4	<b>10</b> 3/4	17				32.2		2 1/4		1 1/2 x 16		1 15/16	23.0		
R258	20	8 1/4	<b>12</b> 3/4	21				42.5	0 3/0	2 1/4			1 1/0	03/10/12	1 13/10	<b>27.0</b>	
R2510				25				52.8								31.0	D140
R2512		<b>12</b> 1/4	<b>16</b> 3/4	29				63.1								35.0	P140
R2514		<b>14</b> 1/4	<b>18</b> 3/4	33				73.4								39.0	

## **SPRING RETURN - 30-100 TON**

## **CYLINDERS**

### Simplex Cylinders Help Stand Up To Tough Construction Jobs.



- 9 Models.
- High flow quality couplers.
- Collar threads designed for full load.
- Base & piston mountings for easy fixturing.
- Removable load caps for flexibility & safety.
- Stop rings for piston blow-out protection.
- Plated piston to resist scoring & corrosion.
- Large bearings resist side load.
- Rod wiper protects inner cylinder from dirt.
- Removable carrying handles included on models R556 through R10010.



Contractors called on the brute force of Simplex R5513 cylinders to lift and position highway ramps in San Diego. The Simplex 50 Series power units provided the power and control in this rough outdoor application.

	No.	
Power Pumps	Hoses	Cylinder Accessories
pgs. 44-62	pgs. 70-71	pg. 10

#### Spring Return Cylinders 30 Through 100 Ton Capacities

Model	Cap.	Stroke	A	В	Ram	Effect	Pres.	Oil	C	D	E	F		G			Sugstd.
Number	(tons)	(in)	Min. Ht. (in)	Ext. Ht. (in)	Bore Dia. (in)	Area (sq in)	@ Cap. (psi)	Cap. Req'd (cu in)	0.D.		Base To Port C/L (in)	I.D. Thrds.	Piston Thrd. Depth (in)	Collar Thrds. (in)	Collar Thrd. Lgth. (in)	Wgt. (Ibs)	Hand Pump
R308	30	<b>8</b> 1/4	<b>15</b> 1/4	<b>23</b> 1/2	2 7/8	6.49	9,245	53.6	4	<b>2</b> 1/4	<b>2</b> 1/4	11/2 x 16	<b>1</b> 3/16	35/16x12	<b>1</b> 15/16	40.0	P82
<u>R552</u>		2	<b>6</b> 15/16	<b>8</b> 15/16	3 3/4	11.05	9,955	22.1	) 5					5 x 12	5 x 12 2 1/8	32.0	P42
R554	55	4	<b>8</b> 15/16	<b>12</b> 15/16				54.0		3 1/8	1 3/8					42.0	P82
R556		<b>6</b> 1/4	<b>11</b> 1/8	17 3/8				69.0		0.70	1 0/0			0		50.0	
R5513		<b>13</b> 1/4	<b>18</b> 1/8	31 3/8				146.3				N/A	N/A			78.0	
R756	75	<b>6</b> 1/8	<b>11</b> 1/4	17 3/8	4 1/2	15.90	9,430	97.4	5 3/4	<b>3</b> 3/4				53/4 x 12	1 3/4	63.0	*
R7513	10	<b>13</b> 1/8	<b>19</b> 3/8	<b>32</b> 1/2	4 1/2	10.50	3,400	208.0	0 0/4	0 0/4	1 3/16					130.0	
R1006	100	nn <u>6 5/8</u>	13 1/4	20 11/16	5 1/0	20.63	9,695	137.0	6 1/4	<b>4</b> 1/8	1. 5/10			61/4 x 12	<b>2</b> 1/4	90.0	
R10010	100	<b>10</b> 1/4	16 7/8	<b>27</b> 15/16	J 1/0	20.03	3,030	212.0	0 1/4	Hr 1/0				U1/4 X 12	L 1/4	110.0	

\*Power pumps are suggested for these units (see pages 44-62)

