

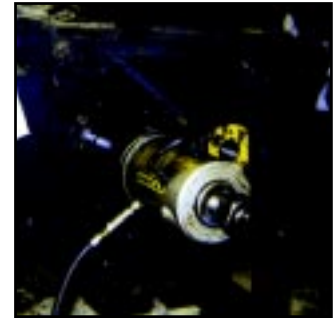
# SINGLE-ACTING HOLLOW

# CYLINDERS

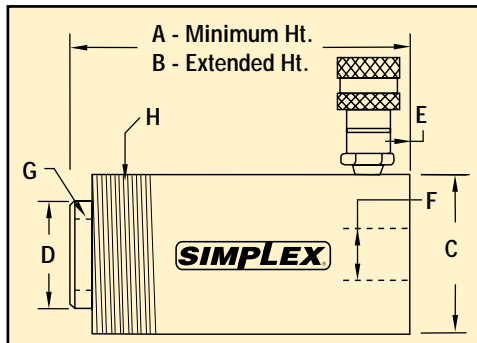
Simplex Hard-Kor™ Cylinders Make Light Work Of Rolling Mill Maintenance.



Steel company uses the Simplex RC1003 to change worn spindles on large rolling mills. This Hard-Kor™ 100 ton capacity cylinder is mounted horizontally and uses a threaded pull rod to remove the spindle from its roller. The Hard-Kor™ design is right at home in harsh steel mill environments.



- 12 standard models.
- HARD-KOR™ DESIGN!
- No potential leak points at base.
- Extra protection against base blow-out.
- Lower profiles for more versatility.
- Double wipers protect against contamination.
- Faster retraction increases productivity.
- Large center holes for greater flexibility.
- Rhino-Rod™ pistons resist scoring & corrosion.
- Lower operating pressures.
- Doubles as lifting cylinder.
- High flow coupling with tough rubber dust cap.
- Precision construction that prevents seal extrusion.



### Base Mounting Holes

Capacity	Thread		Bolt Circle Dia. (mm)
	Size (in)	Dpth. (in)	
12 Ton	5/16-18	5/16	51
20 Ton	3/8-16	7/16	83
30 Ton	3/8-16	3/8	92
60 Ton	1/2-13	7/16	130
100 Ton	5/8-11	3/4	178

### Optional Threaded Saddles

AS20			AS30		
A	B	C	A	B	C
54	1-8	10	63	1.25-7	10

## Single-Acting Hollow Cylinders 12 Through 100 Ton Capacities

Model Number	Cap. (tons)	Stroke (mm)	A Min. Ht. (mm)	B Ext. Ht. (mm)	Effect Area (cm²)	Pres. @ Cap. (bar)	Oil Cap. Req'd (cm³)	C Body O.D. (mm)	D Piston O.D. (mm)	E Base To Port C/L (mm)	F Cen. Hole Dia. (mm)	G		H		Wgt. (kg)			
												Collar Thrds. (in)	Collar Thrd. Lgth. (in)	Piston Thrds. (in)	Piston Thrd. Lgth. (in)				
RC120	12	8	56	64	15,2	703	14,8	70	35	11	19,4	2 3/4 - 16	1 13/16	3/4 - 16	5/8	1,4			
RCQ120														3/4 - 10	---				
RC121														---	---				
RC1211														3/4 - 16	5/8				
RC123	20	41	121	162	34,2	700	73,8	102	54	20	27	3 7/8 - 12	1 1/2	1 9/16 - 16	3/4	14,1			
RC202														76	184		260	---	---
RC202														51	157		208	---	---
RC206														152	284		437	---	---
RC302	30	64	178	241	55,7	700	360,6	127	64	21	33,3	4 1/2 - 12	1 3/4	1 13/16 - 16	7/8	11,8			
RC306														156	311		467	---	---
RC306														76	220		296	---	---
RC603														152	322		474	---	---
RC606	60	76	220	296	94,1	700	1721,2	171	102	25	54	6 1/4 - 12	2	2 3/4 - 16	3/4	31			
RC606														152	322		474	---	---
RC1003	100	76	229	305	132,9	700	1016,2	210	127	25	79,4	---	---	4 - 16	1	45			

# CYLINDERS

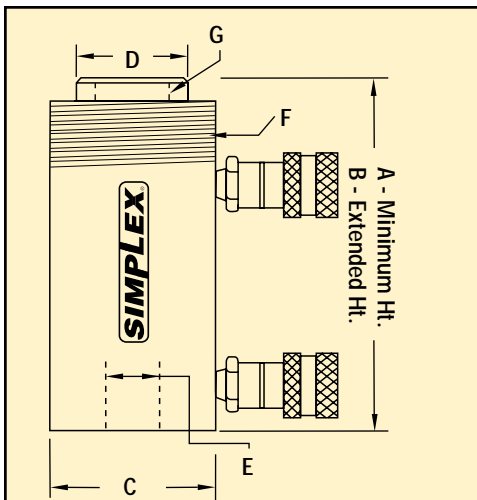
# DOUBLE-ACTING HOLLOW

Simplex Center Hole Cylinders Raise 6,000 Ton Bridge Span 170 Ft.



Engineers from around the world watched as Simplex center hole cylinders raised a 6,000 ton bridge section more than 52m over the Willamette River in Portland, OR. The span was constructed up river and barged into position. Using pull rods and couplings, Simplex RCD200 Series cylinders completed the lift in 40 hours.

- 11 standard models.
- **HARD-KOR™** Design for longer life.
- Relief valves protect against over pressurizing.
- High flow quality couplers.
- Large diameter center holes.
- **Rhino-Rod™** pistons resist scoring & corrosion.
- Stop ring for piston blow-out protection.
- Available in custom strokes.
- Rod wiper protects inner cylinder from dirt.



### Base Mounting Holes

Capacity	Thread		Bolt Circle Dia. (mm)
	Size (in)	Dpth. (in)	
30 Ton	3/8-16	3/8	92
60 Ton	1/2-13	7/16	130
100 Ton	5/8-11	3/4	178

### Double-Acting Center Hole Cylinders 30 Through 500 Ton Capacities

Model Number	Push Cap. (tons)	Pull Cap. (tons)	Stroke (mm)	A Min. Ht. (mm)	B Ext. Ht. (mm)	Effect Area (cm <sup>2</sup> )	Pres. @ Cap. (bar)	Oil Cap. Req'd (cm <sup>3</sup> )	C Body O.D. (mm)	D Piston O.D. (mm)	E Center Hole Dia. (mm)	F		G		Wgt. (Kg)
												Collar Thrds. (in)	Collar Thrd. Lgth. (in)	Piston Thrds. (in)	Piston Thrd. Lgth. (in)	
RCD302	30	25	51	178	229	55,5	665,8	141	127	64	33	4 1/2 - 12	1 3/4	1 13/16 - 16	7/8	21,8
RCD307			178	311	489			405,7								22,7
RCD6010	60	45	254	394	648	93,6	567,9	901,4	171	102	54	----	----	----	----	43,2
RCD1001	100	68	25	178	229	132,9	669,3	147,5	210	127	79	----	----	----	----	38,6
RCD1003			76	229	305			345,8								45,5
RCD1006			152	305	457			693,3								52,3
RCD10010			254	406	660			1155,5								68,2
RCD1505C	150	----	127	333	460	203,9	654,9	1278,4	254	152	79	----	----	----	----	109,1
RCD2006C	246	----	152	413	565	318,1	700	2819,1	305	203	105	----	----	----	----	175
RCD3006C	434	----		476	629	590,4		4851,4	381	241	108	----	----	----	----	327,2
RCD5006C	646	----		546	698	834,2		7588,6	451	305	133	----	----	----	----	559

CUSTOM STROKES AND CAPACITIES AVAILABLE  
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