



ORDERING INFORMATION: #SSL40-STROKE

UNIT COMES WITH Ø40mm SHAFTING AND A 4" BORE PANCAKE AIR CYLINDER. THE 250.0mm HEIGHT DIM IS REGARDLESS OF STROKE.

UNIT HAS A MAXIMUM STROKE OF 100mm AND CAN BE FIELD ADJUSTED TO ANY STROKE. TO ADJUST THE STROKE, LOOSEN CLAMP SCREWS ON UPPER & LOWER STOP BLOCKS, ROTATE ADJUSTING SHAFTS TO ADJUST UPPER STOP BLOCKS UP OR DOWN TO DESIRED HEIGHT, THEN RE-TIGHTEN CLAMP SCREWS.

LOAD CAPACITY @ 60PSI IS 365lbf EXTEND / 325lbf RETRACT

UNIT WEIGHT: 165 LBF

UNITS ARE MILLIMETERS
(ie X.XXmm [X.XXX"])

WEKER BEARING COMPANY			
TOOL NAME TWO POST SHORT STROKE LIFTER			
TEMPLATE			
DRAWN BY DJH	DATE 8/4/2001	CHKD BY RCA	ENG APPROVAL
Date 8/18/2005	Status Released	SCALE 1/5	FILE NAME SSL40L01.DWG

WELKER

ISO 9001:2000
CERTIFIED

COMPACT METRIC LIFTERS



including

Synchrolift™

U.S. Patent Numbers 5,690,315 - 6,408,736 - 6,408,740



SAFETY FEATURES

- Welker Locking cylinder stops load in mid-stroke in both directions upon air loss.
- Spiral retaining ring construction won't come apart if fasteners loosen.
- Manual lockouts standard
- 18mm Prox bosses and targets standard.
- Welker MRP Spring Extend Lock-out Pin can be added.

DESIGN FEATURES

- Compact closed height (no protruding shafts).
- Strokes up to 40" / 1000mm.
- Slim footprint
- Mounting from base or side.
- 4",6",8" bore cylinders available with appropriate shaft sizes (English and Metric)
- Extremely rigid in extended position = High repeatability.
- Symmetrically reversible.
- Can lift overhung loads.
- Synchrolift synchronizes remotely mounted units.

U.S. Patent Numbers 5,690,315 - 6,408,736 - 6,408,740

MAINTENANCE

- Lube free cylinder.
- Lube free bearings and seals.
- Easy bearing replacement.
- Shafts can be individually removed.
- One side open for easy cylinder replacement.

DURABILITY

- Bearing spread in two directions.
- Hard chromed shafts standard.
- Lubrication free linear bearings with integrated seals.
- Floating cylinder rod coupling.
- Dual shocks in both directions.
- Dual hard stops in both directions.

DOWNLOAD PRINTS @
WWW.WELKERBEARING.COM

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WELKER

SYNCHROLIFT™

Lifters may be covered under one or more of the following or other patents: U.S. Patent No. 5,690,315
U.S. Patent No. 6,408,736 or U.S. Patent No.6,408,740

METRIC LIFTER

Part Number:
SLM40-STROKE-CYLINDER OPTION

Examples:
SLM40-300-WEL1
(300mm Stroke, NON-LOCK)

SLM40-500-WEL4
(500mm Stroke, LOCK)

SLM40-275-800-WEL8
(275mm Midpoint - 800mm Total
Stroke, NON-LOCK, 3 POS.)



Part Number:
CLM40-STROKE-CYLINDER OPTION

Examples:
CLM40-300-WEL1
(300mm Stroke, NON-LOCK)

CLM40-500-WEL4
(500mm Stroke, LOCK)

CLM40-275-800-WEL8
(275mm Midpoint - 800mm Total
Stroke, NON-LOCK, 3 POS.)

Lifts in tandem within 5mm tolerance
Patented "Synchro Cylinder"
Presently synchronized up to 4 lifters
Connection leaves center of tool open



**SSL
SHORT STROKE
METRIC LIFTER**

See Page 6 for print
& specifications



METRIC LIFTER PART SPECIFICATIONS

PART NUMBER	CLM40	CLM40	CLM50	CLM50	CLM50
	Nonlock *	Lock *	Nonlock*	Lock *	Lrg. Bore-NL*
Stroke Increment	5mm	5mm	5mm	5mm	5mm
Maximum Stroke	1000mm	1000mm	1000mm	1000mm	1000mm
Extend Capacity	375	375	850	850	1510
Retract Capacity	330	330	805	805	1465
Recommended Max. Overhung Load lbf-ft.	150 lbf-ft.	150 lbf-ft.	300 lbf-ft.	300 lbf-ft.	300
Recommended Max. CG Offset	36"	36"	36"	36"	36"
Cylinder Options	See Cylinder Chart				
Weight	215 lbs. +2.71 lbf./ 25mm stroke	230 lbs.	450 lbs.	475 lbs.	475 lbf. +3.88 lbf./ 25mm stroke

* Welker Cylinder

DOWNLOAD CAD DRAWINGS FROM WEB SITE www.welkerbearing.com



METRIC LIFTERS & SYNCHROLIFT

CYLINDER OPTIONS FOR ALL METRIC LIFTERS

CYLINDER OPTION	CYLINDER TYPE	CYLINDER BORE	CYLINDER BRAKE PORTS	MAIN CYLINDER PORTS
CLM40	SLM40			
-VEL 1	NON-LOCK	4"	N/A	1/2 NPT
-VEL 2	NON-LOCK	4"	N/A	# 10 SAE
-VEL 3	NON-LOCK	4"	N/A	1/2 ISOG
-VEL 4	LOCK	4"	1/4 NPT	1/2 NPT
-VEL 5	LOCK	4"	# 4 SAE	# 10 SAE
-VEL 6	LOCK	4"	1/4 ISOG	1/2 ISOG
-VEL 7	NL 3 POS	4"	N/A	1/2 NPT
-VEL 8	NL 3 POS	4"	N/A	# 10 SAE
-VEL 9	NL 3 POS	4"	N/A	1/2 ISOG
-VEL 10	LOCK 3 POS	4"	1/4 NPT	1/2 NPT
-VEL 11	LOCK 3 POS	4"	# 4 SAE	# 10 SAE
-VEL 12	LOCK 3 POS	4"	1/4 ISOG	1/2 ISOG
CLM50	SLM50			
-VEL 1	NON-LOCK	6"	N/A	3/4 NPT
-VEL 2	NON-LOCK	6"	N/A	# 12 SAE
-VEL 3	NON-LOCK	6"	N/A	3/4 G
-VEL 4	LOCK	6"	1/4 NPT	3/4 NPT
-VEL 5	LOCK	6"	# 4 SAE	# 12 SAE
-VEL 6	LOCK	6"	1/4 G	3/4 G
-VEL 7	NON-LOCK	8"	N/A	3/4 NPT
-VEL 8	NON-LOCK	8"	N/A	# 12 SAE
-VEL 9	NON-LOCK	8"	N/A	3/4 G

3 Position cylinder provides a hard & repeatable midpoint (Patent Pending)