

## Product Portfolio

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# **SIMPLEX**

A Century of Product Integrity



## Hydraulic & Mechanical Power

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cylinders • hand pumps • mechanical • accessories • power pumps  
lifting jacks • hydraulic tools • bolting • presses

## Simplex Steel Cylinders

### ► Built for Rugged Industrial/ Construction Use

All Simplex cylinders meet ANSI/ASME B30.1 SAFETY STANDARDS. Stop rings, plated pistons and heavy duty construction provide trouble free operation and long life.

### ► Standard Design Elements

Cylinders are designed for 10,000 psi operating pressure which offers a smaller footprint and greater force.

### ► Piston Blow-Out Protection

All Simplex cylinders (*excluding CLP Series*) incorporate a positive piston stop to limit piston travel at the end of the stroke, and allows the cylinder to be operated at full stroke. Piston stops add strength and safety to your cylinder.

## RC & RCD SERIES



RC603A Shown

- Induction hardened piston rod for added strength eliminating the need for a loadcap
- Design allows for both push & pull forces
- Large center hole for greater flexibility

Model Number	Capacity (tons)	Stroke (in)	Collapsed Height (in)
RC120A	12	0.31	2.2
RC121A	12	1.63	4.75
RC123A	12	3	7.25
RC202A	20	2	6.42
RC206A	20	6.10	12.09
RC302A	30	2.5	7.03
RC306A	30	6.13	13
RC603A	60	3	9.75
RC606A	60	6	12.75
RC1003A	100	3	10
RCD307A	36	7	13
RCD6010A	64	10.12	17.25
RCD1003A	103	3	10
RCD1006A	103	6	13.50
RCD10010A	103	10.13	18.12
RCD1505	150	5	13.13
RCD2006C	246	6	16.25
RCD3006C	434	6	18.75
RCD5006C	646	6	21.5

## CLP SERIES



CLP-1002 Shown

- Extra low profile to fit into tight spaces
- 5° swivel load caps on all models
- Carrying handles and eye bolts on all models

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
CLP-602	60	1.97	4.9
CLP-1002	100	1.97	5.4
CLP-1502	150	1.77	5.8
CLP-2002	200	1.77	6.1
CLP-2502	250	1.77	6.3
CLP-4002	400	1.77	7
CLP-5002	500	1.77	7.6

## RLS & RFS SERIES



RLS201 Shown

- Compact and portable
- Large plunger contact area with grooved end

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
RLS101	10	1.5	3.47
RLS201	20	1.75	3.87
RLS302	30	2.44	4.62
RLS502	50	2.38	4.81
RLS1002	100	2.25	5.56
RFS10	10	.44	1.68
RFS20	20	.44	2.03
RFS30	30	.5	2.31
RFS50	50	.62	2.62
RFS75	75	.62	3.13
RFS100	100	.62	3.38
RFS150	150	.56	3.93

## R SERIES



R556 Shown

- HD internal spring for fast retract assistance
- Plated piston resists scoring & corrosion
- Rod wiper protects inner cylinder from dirt

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
R50	5	0.62	1.62
R51	5	1.13	4.37
R53	5	3.13	6.52
R55	5	5.13	8.52
R57	5	7.18	10.75
R59	5	9.18	12.83
R101	10	1.03	3.50
R102	10	2.19	4.78
R104	10	4.19	6.78
R106	10	6.00	9.78
R108	10	8.00	11.78
R1010	10	10.00	13.78
R1012	10	12.00	15.78
R1014	10	14.00	17.78
R152	15	2.13	5.83
R154	15	4.13	7.83
R156	15	6.38	10.69
R1510	15	10.38	14.69
R1514	15	14.38	18.69
R251	25	1.00	5.50
R252	25	2.00	6.50
R254	25	4.00	8.50
R256	25	6.19	10.75
R258	25	8.19	12.75
R2510	25	10.19	14.75
R2512	25	12.19	16.75
R2514	25	14.19	18.75
R308	30	8.25	15.25
R552	55	2.00	6.94
R554	55	4.00	8.94
R556	55	6.19	11.06
R5513	55	13.25	18.26
R756	75	6.06	11.31
R7513	75	13.06	19.38
R1006	100	6.63	14.06
R10010	100	10.25	17.69

## RLR SERIES



RLR1006 Shown

- Large bearings resist side load
- Custom strokes and capacities up to 1,500 tons available, contact factory
- Swivel Eye Bolts are used 100 tons and up

Model Number	Capacity	Stroke	Minimum Height
	(tons)	(in)	(in)
RLR306	30	6	9.38
RLR502	50	2	5.44
RLR506	50	6	9.44
RLR5010	50	10	13.44
RLR1006	100	6	10.56
RLR10010	100	10	14.56
RLR1502	150	2	7
RLR1506	150	6	11
RLR15012	150	12	17
RLR2002	200	2	8
RLR2006	200	6	12
RLR20012	200	12	18
RLR3002	300	2	11.5
RLR3006	300	6	13.75
RLR30012	300	12	19.75
RLR4002	400	2	11.5
RLR4006	400	6	15.5
RLR40012	400	12	21.5
RLR5002	500	2	12.62
RLR5006	500	6	16.62
RLR50012	500	12	22.62
RLR6002	600	2	13.5
RLR6006	600	6	17.5
RLR60012	600	12	23.5
RLR8002	800	2	14.44
RLR8006	800	6	18.44
RLR80012	800	12	24.44
RLR10002	1000	2	16.13
RLR10006	1000	6	20.13
RLR100012	1000	12	26.13

## RDA SERIES



RDA10006 Shown

- Collar threads designed for full load (10-200 tons)
- Removable load cap for flexibility and safety
- Custom strokes and capacities up to 1,500 tons available, contact factory

Model Number	Capacity (tons)		Stroke (in)	Minimum Height (in)
	Push	Pull		
RDA1010	10	4	10	16.13
RDA308	30	12.5	8.13	15.75
RDA3014	30	12.5	14.5	21.62
RDA556	55	17	6.13	13.13
RDA5512	55	17	12	19.13
RDA5524	55	17	24	31.62
RDA1006	100	45	6.06	13.87
RDA10012	100	45	12	19.87
RDA1506	150	67	6.06	15.44
RDA15012	150	67	12	21.5
RDA2002	200	72	2	11.44
RDA2006	200	72	6	15.44
RDA20013	200	72	13	22.44
RDA3002	355	----	2	13.25
RDA3006	355	----	6	17.25
RDA30012	355	----	12	23.25
RDA4002	565	----	2	12.38
RDA4006	565	----	6	16.62
RDA40012	565	----	12	22.87
RDA5002	664	----	2	16.5
RDA5006	664	----	6	20.5
RDA50012	664	----	12	26.5
RDA6002	600	----	2	15
RDA6006	600	----	6	19
RDA60012	600	----	12	25
RDA8002	800	----	2	16
RDA8006	800	----	6	21.5
RDA80012	800	----	12	26
RDA10002	1000	----	2	16
RDA10006	1000	----	6	20
RDA100012	1000	----	12	27

## RLN SERIES



RLN1006 Shown

- Lock nuts offer extended load holding
- 5° swivel load caps on 30-100 ton models for side load protection
- Custom strokes and capacities up to 1,500 tons available, contact factory

Model Number	Capacity	Stroke	Minimum Height
	(tons)	(in)	(in)
RLN302	30	2	6.38
RLN306	30	6	10.38
RLN502	50	2	6.75
RLN506	50	6	10.75
RLN5010	50	10	14.75
RLN1002	100	2	8
RLN1006	100	6	12
RLN10010	100	10	16
RLN1502	150	2	8
RLN1506	150	6	12.25
RLN15012	150	12	18
RLN2002	200	2	9.5
RLN2006	200	6	13.5
RLN20012	200	12	19.5
RLN3002	300	2	11.5
RLN3006	300	6	15.5
RLN30012	300	12	21.5
RLN4002	400	2	13.81
RLN4006	400	6	17.81
RLN40012	400	12	23.81
RLN5002	500	2	14.75
RLN5006	500	6	18.75
RLN50012	500	12	24.75
RLN6002	600	2	15.62
RLN6006	600	6	19.62
RLN60012	600	12	27.62
RLN8002	800	2	16.93
RLN8006	800	6	21.93
RLN80012	800	12	27.93
RLN10002	1000	2	19.62
RLN10006	1000	6	23.62
RLN100012	1000	12	29.62

## RAS SERIES



RAS306B Shown

- Half the weight of steel cylinders
- Heavy duty spring for fast & full retraction
- Large bearing surfaces for side load protection

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
RAS302B	30	2	6.5
RAS306B	30	6	10.5
RAS502B	50	2	6.5
RAS504B	50	4	8.5
RAS506B	50	6	10.5
RAS5010B	50	10	14.5
RAS1002B	100	2	6.5
RAS1004B	100	4	8.5
RAS1006B	100	6	10.5
RAS10010B	100	10	14.5
RAS1502B	150	2	6.5
RAS1506B	150	6	10.5
RAS15010B	150	10	14.5

## RAL SERIES



RAL502 Shown

- Technical coating reduces wear & corrosion
- Carrying handles standard on all models
- Locknuts offer extended load holding

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
RAL502	50	2	8.13
RAL504	50	4	10.13
RAL506	50	6	12.13
RAL5010	50	10	16.13
RAL1002	100	2	8.38
RAL1004	100	4	10.38
RAL1006	100	6	12.38
RAL10010	100	10	16.38
RAL1502	150	2	8.38
RAL1506	150	6	12.38
RAL15010	150	10	16.38

## RACD SERIES



RACD306 Shown

- Steel piston for protection against load damage
- Chrome plated sleeve for extra protection

Model Number	Capacity (tons) Push	Stroke (in)	Minimum Height (in)
RACD302	30	2	7
RACD306	30	6	11
RACD3010	30	10	15
RACD502	50	2	7
RACD504	50	4	9
RACD506	50	6	11
RACD5010	50	10	15
RACD1002	100	2	10
RACD1004	100	4	12
RACD1006	100	6	14
RACD10010	100	10	18
RACD1502	150	2	10
RACD1506	150	6	14
RACD15010	150	10	18

## RAC SERIES



RAC303 Shown

- Half the weight of steel cylinders
- Heavy duty spring for fast & full retraction

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
RAC303	30	3	8.75
RAC306A	30	6	11.75
RAC603	60	3	10.13
RAC606	60	6	13.25

## HOSES



HA3, HCA3, HD10 & HPC6 Shown

- HA and HCA rubber hoses are ideal for manual pumps and small cylinders with a 1/4" I.D. and 2:1 design factor
- HD and HDC rubber hoses are designed for higher flows needed for larger equipment with a 3/8" I.D. and a 2:1 design factor
- HP and HPC thermoplastic hoses are designed for high flows and maximum abrasion resistance and cycle life with a 3/8" I.D. and 4:1 design factor

Model Number	Length (ft)	Hose Ends
		(in)
HA3	3	3/8" NPTF Male; 3/8" NPTF Male
HA6	6	3/8" NPTF Male; 3/8" NPTF Male
HCA3	3	3/8" NPTF Male; C213 Coupler
HCA6	6	3/8" NPTF Male; C213 Coupler
HD6	6	3/8" NPTF Male; 3/8" NPTF Male
HD10	10	3/8" NPTF Male; 3/8" NPTF Male
HDC6	6	3/8" NPTF Male; C213 Coupler
HDC10	10	3/8" NPTF Male; C213 Coupler
HP6	6	3/8" NPTF Male; 3/8" NPTF Male
HP10	10	3/8" NPTF Male; 3/8" NPTF Male
HPC6	6	3/8" NPTF Male; C213 Coupler
HPC10	10	3/8" NPTF Male; C213 Coupler

## SYSTEM COMPONENTS



G5, AO1 & C213 Shown

### GLYCERINE FILLED PRESSURE GAUGES

- Liquid dampens needle vibration to protect components
- Reads both PSI and Bar pressures (0-10,000 psi, 0-700 bar scale, 1% full range accuracy)
- 1/4" NPT connection thread

### HIGH FLOW COUPLERS

- 3/8" high flow couplers come standard on Simplex equipment

### HYDRAULIC OIL

- Always use Simplex hydraulic oil to protect equipment from wear, corrosion and failure

Model Number	Description
G5	2.5" Pressure Gauge
G7	4.0" Pressure Gauge
AO1	Hydraulic oil, 1 gallon
C213	3/8" NPTF male coupler half with dust cap
C211	3/8" NPTF female coupler half with dust cap
C209	3/8" NPTF complete coupler with two dust caps

## FLOW CONTROL VALVES



V2, V3 & V10EC Shown

- All valves are rated for 10,000 psi operating pressure
- All valves feature NPTF porting to insure against leakage at rated pressure
- All valves are painted, coated, or plated for corrosion resistance

Model Number	Description
V10E	Check Valve
V10EC	Check Valve w/C209 Coupler
V2	Over Center Check Valve
V5B	Shut-off Valve
V1	In-line Adjustable Relief Valve
V3	Safety Relief Valve

## Simplex Hand Pumps

### ► Built for Rugged Industrial/ Construction Use

Shipyards, steel mills, construction sites and weld shops can be rough environments for hand pumps. Simplex's all metal and aluminum designs withstand real world conditions and applications.

### ► Lowest Handle Effort

Simplex hand pumps have low, back saving handle efforts to reduce operator fatigue & back injury.

### ► Optimal Oil Displacement Per Stroke

More oil per stroke means less handle strokes per job. Simplex pumps have the highest available oil displacement per stroke, in many cases reducing the number of handle strokes as much as 50%.

### HYDRAULIC HAND PUMPS



P32 & P72 Shown

#### ALUMINUM HYDRAULIC HAND PUMPS

- All aluminum construction makes these pumps extremely light weight and easy to handle
- 25% faster per stroke than comparative pumps means less work for operator

Model Number	Maximum Pressure (psi)	Oil Volume per Stroke (in <sup>3</sup> )		Usable Oil Capacity (in <sup>3</sup> )
		1st	2nd	
P30	10,000	.91	.19	30
P32	10,000	.43	.06	30
P71	10,000	.19		70
P72	10,000	.91	.19	70



P140, P82A & P41 Shown

#### STEEL HYDRAULIC HAND PUMPS

- Heavy duty, metal construction for durability
- High displacements of oil per stroke
- Adjustable handle effort / dual pivot points
- Low, back saving handle effort
- External adjustable relief valves

Model Number	Maximum Pressure (psi)	Oil Volume per Stroke (in <sup>3</sup> )		Usable Oil Capacity (in <sup>3</sup> )
		1st	2nd	
P22	10,000	.23	.06	20
P41	10,000	-	.16	40
P42	10,000	.79	.16	45
P82A	10,000	.99	.15	134
P140	10,000	2.8	.24	175
P300	10,000	2.8	.24	300
P140D	10,000	2.8	.24	175
P300D	10,000	2.8	.24	300

### SPECIAL APPLICATION HAND PUMPS



P1606A Shown

- Ideal for fixed applications when pumps need to be bolted in place
- P1000A Series offers a swivel pump head for flexible fixturing
- Wide range of operating pressures to select from
- P1000A Series for use with external reservoir

Model Number	Operating Pressure (psi)	Usable Reservoir Capacity (in <sup>3</sup> )	Volume per Stroke (in <sup>3</sup> )
P1603A	12,000	148	.30
P1604A	6,500	148	.53
P1606A	3,000	148	1.33
P10003A	12,000	-	.30
P10004A	6,500	-	.53

# Simplex Power Pumps

## ► Maximum Flexibility

External adjustable pressure relief valves for variable pressure settings, plus many interchangeable control valves and reservoirs for a wide range of applications. Dual Voltage & Dual Hertz electric motors for applications requiring alternate power sources.

## ► High Performance / Fast Cycle Times

Crossover pressure up to 2,000 psi. Provides high, first stage flows well into the work cycle. This extra power provides higher speeds in Prestressing, Bending, Crimping, Compressing & Post-Tensioning applications.

## ► Cool Running & Dependable Performance

High first stage performance is achieved through field proven Gear Pump technology. In addition to gear pumps, an unloading valve passes full power to the second stage once crossover pressure is reached. No power is lost and less heat is generated.

### G SERIES ELECTRIC HYDRAULIC PUMPS



G1131 & G3132 Shown

#### G1 & G3 ELECTRIC PUMPS

- Powered by a 115V - 60HZ, universal motor (0.5 hp for G1, 1.13 hp for G3)
- Low startup voltage, G1 draws 10 amps at full load, G3 draws 16 amps at full load (230V models also available)
- Two-speed pump operation provides fast tool performance
- External adjustable relief standard on all models

Model Number	For Cylinder	Valve Type	Usable Oil Capacity (gal)
G1101	S/A	Manual Dump	1
G1121	S/A	Manual 2W, 2P	1
G1141	D/A	Manual 4W, 3P	1
G3122	S/A	Manual 2W, 2P	1.5
G3132	S/A	Manual 3W, 3P	1.5
G3162	S/A	Solenoid 3W, 3P	1.5
G3143	D/A	Manual 4W, 3P	2.5
G3173	D/A	Solenoid 4W, 3P	2.5

S/A = single-acting; D/A = double-acting.



G5132G & G6335 Shown

#### G5 & G6 ELECTRIC HYDRAULIC PUMPS

- G5 powered by a 115V - 60Hz, 1.5 hp permanent magnet motor; low startup voltage, draws 18 amps at full load (230V models also available)
- G6 powered by a multi-voltage, 3 phase, 3 hp AC motor; low startup voltage draws 9.5 amps (230v) at full load
- Ideal for use with mid to large sized hydraulic cylinders or tools
- Comes standard with 15' pendant

Model Number	For Cylinder	Valve Type	Usable Oil Capacity (gal)
G5123	S/A	Manual 2W, 2P	2.5
G5133	S/A	Manual 3W, 3P	2.5
G5163	S/A	Solenoid 3W, 3P	2.5
G5143	D/A	Manual 4W, 3P	2.5
G5175	D/A	Solenoid 4W, 3P	5
G6365	S/A	Solenoid 3W, 3P	5
G6376	D/A	Solenoid 4W, 3P	10

S/A = single-acting; D/A = double-acting.

### G SERIES AIR HYDRAULIC PUMPS



G5733 Shown

#### G5 AIR HYDRAULIC PUMPS

- Powered by a rotary air vane, 3 hp motor (3,000 rpm)
- Equipped with a filter-lubricator assembly, air muffler and carry handlebar on all models
- Precision designed valve offers reliability and secure load holding; external adjustable relief standard on all models

Model Number	For Cylinder	Valve Type	Usable Oil Capacity (gal)
G5732	S/A	Manual 3W, 3P	1.5
G5735	S/A	Manual 3W, 3P	5
G5742	D/A	Manual 4W, 3P	1.5
G5745	D/A	Manual 4W, 3P	5

S/A = single-acting; D/A = double-acting.

### AIR HYDRAULIC PUMPS



Air Foot Family Shown

#### GA AIR HYDRAULIC PUMPS

- 3 position non-slip, diamond grip treadle for safe advance, hold & retract operation
- Quiet operation - 85 dba @ 10,000 psi
- Rugged all metal construction
- High quality rubber gasket seals
- Integrated non-spill vent / oil level indicator

Model Number	Tool Type	Control	Usable Oil Capacity (in <sup>3</sup> )
GA90	S/A	Foot Pedal	90
GA9230	S/A	Foot Pedal	230
GA9460	S/A	Foot Pedal	460
GA90R	S/A	Pendant	90
GA9230R	S/A	Pendant	230
GA9230D	D/A	Valve	230
GA9460D	D/A	Valve	460

S/A = single-acting; D/A = double-acting.

### GASOLINE HYDRAULIC PUMPS



G6843 Shown

#### G6 GASOLINE HYDRAULIC PUMPS

- Powered by a 163 c.c. Honda® gas motor
- High performance two-stage pump provides higher cross-over pressure for faster cycle times and equipment operation
- Ideal for use with mid to large sized hydraulic cylinders or tools

Model Number	Tool Type	Valve Type	Usable Oil Capacity (gal)
G6833	S/A	3W, 3P	2.5
G6835	S/A	3W, 3P	5
G6843	D/A	4W, 3P	2.5
G6845	D/A	4W, 3P	5

S/A = single-acting; D/A = double-acting.

## Simplex Lifting Jacks

### ► Self Contained Hand Jacks

From factory maintenance to portable tool chests, Simplex Hand Jacks are the standard utility tools for all maintenance applications.

### ► Heavy Duty Toe Jacks

From structural movers to plant maintenance crews, Simplex Toe Jacks are the answer to all your low clearance lifting problems. The Simplex Toe Jacks offer high capacities in a broad range of lifting.

### ► Something for Every Job

From the thinnest of air bags to the widest assortment of controls, Simplex heavy duty Air Bags provide a solution to the most unique and specialized application.

### HAND JACKS



HJ2A, HJ3A and HJ8A Family Shown

#### HJ SERIES - HAND JACKS

- Thick base material with large area for increased strength and stability during lifting
- High strength beam and pump linkage for long life
- Lever Bar included on all models

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)
HJ2A	2	3.94	6.30
HJ3A	3	4.13	6.61
HJ5A	5	5.91	8.35
HJ8A	8	5.91	8.62
HJ11A	11	5.91	8.62
HJ11ALP	11	2.44	5.16
HJ22A	22	5.91	9.21
HJ22ALP	22	4.13	7.48
HJ35A	35	5.91	9.68
HJ55A	55	5.91	9.92

### HEAVY DUTY TOE JACKS



TJH Family Shown

#### TJH SERIES - HEAVY DUTY TOE JACKS

- Low toe heights fit in tight clearances
- Lever Bars are included with all models
- Toe Lifts are rated at maximum capacity on all models

Model Number	Capacity (tons)	Stroke (in)	Minimum Height (in)	
			Toe (in)	Cap (in)
TJH2A	2	4.53	.67	9.25
TJH5A	5	4.73	1.06	11.54
TJH10A	10	5.71	1.22	12.87
TJH109	10	9	2.25	22
TJH109LS	10	9	2.17	16.13

### AIR LIFTING BAGS



B Series Shown

#### B SERIES - AIR LIFTING BAGS

- All models include 2 ply Kevlar with neoprene
- Wide variety of safety controllers and hoses for single & multiple bag systems

Model Number	Capacity (tons)	Max. Lifting Height (in)	Air Required @ 116 PSI (cu. ft.)
B1A	1.1	2.7	.18
B3A	3.1	5.1	.53
B6A	6.4	5.9	1.48
B11A	10.8	7.0	3.04
B14A	14.2	8.6	5.37
B22A	22.7	10.6	10.45
B28A	27.7	11.8	14.7
B35A	35.3	14.1	21.9
B46A	46.4	16.5	32.5
B59A	58.8	17.7	46.8
B77A	77	20.5	53.1



# Simplex Hydraulic Tools

## ► Spreaders for Many Applications

From flange spreading to concrete form removal, Simplex can supply a suitable solution with their line up of hydraulic spreaders.

## ► Easy Operating Portable Punch

Whether it's a construction site or production fabrication, Simplex single acting 35 ton portable punch offers fast and effective solutions.

## ► Configured to Meet a Broad Range of Requirements

Whether it's collision repair, general maintenance, specialized spreading, clamping or holding, Simplex maintenance kits will help you accomplish the job easily and effectively.

### HYDRAULIC SPREADERS



S2000A & S3000A Shown

#### S SERIES HYDRAULIC SPREADERS

- Durable all metal construction to withstand any tough environment
- Quality high flow coupler for fast tool setup

Model Number	Capacity (tons)	Oil Capacity Required (cu. in)	Weight (lbs)	Suggested Hand Pump
S2000A	1	.61	5	P42
S3000A	.75	3.91	25	P42



SF5 Shown

#### S SERIES HYDRAULIC SPREADERS

- 5 tons of spreading force
- .13" through 3" spreading capability
- All metal construction

Model Number	Capacity (tons)	Oil Capacity Required (cu. in)	Weight (lbs)	Suggested Hand Pump
SF5	5	5	17	P22

### SINGLE ACTING PUNCH



SPH35A Shown

#### SPH SERIES SINGLE ACTING PUNCH

- Industrial grade, single acting, spring return design
- Punches holes in material up to .5" thick mild steel
- Large selection of square, rounded and oblong dies and punches are offered to complete a wide variety of applications

Model Number	Punch	Steel Case	Punch & Die Set
SPH35A	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81
SPH35SA	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81
SPH35SPA-115*	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81

\* Includes pump and hose.

### MAINTENANCE KIT



MK106 Shown

#### MK SERIES MAINTENANCE KIT

- Set includes a Simplex hand pump, cylinder, hose, gauge and gauge adapter
- Rated at 5 tons when attachments are used
- Quick lock and threaded adaptors included

Model Number	Capacity (tons)	Cylinder	Hand Pump	No. of Attachments
MK106	10	R106	P42	MK-4 thru MK-20

## Simplex Hydraulic Presses

### ► Maximum Flexibility

All Simplex H-Frame Presses include a moveable work head that incorporates rollers and allows for easy positioning across the entire length of the cross bar. This allows the pressing force to be positioned at any point of the press bed. The adjustable work bed can be raised or lowered to accommodate a wide variety of jobs.

### ► Maximum Daylight

Simplex presses have large work areas that accommodate larger jobs and makes loading and unloading easier. Open sides have large clearances for loading work through the side daylight.

### ► Easy To Use

All Simplex H-Frame Presses include a friction brake winch that adjusts the bed height effortlessly and will not drop the bed if the handle is released (no kick back). The wide choice of pumps & valves provides a variety of different control options.

## HYDRAULIC PRESSES



IES256 Shown

### 25-30 TON H FRAME HYDRAULIC PRESSES

- Large daylight with open sides for easy loading
- Moveable work head for maximum versatility
- Adjustable work bed with friction brake winch

Model Number with Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model
IAS256	R256/ Acting 25 Ton Capacity	6.25	Air	GA90
IAS2514		14.25	Air	GA90
IES256		6.25	Electric	G1121
IES2514		14.25	115V	G1121
IMS256		6.25	Manual	P82A
IMS2514	14.25	Manual	P82A	
IED3014	RDA3014	14.25	Elec. 115V	G4172
IMD3014		14.25	Manual	P140D



IES556 Shown

### 55 TON H FRAME HYDRAULIC PRESSES

- Large daylight with open sides for easy loading
- Moveable work head for maximum versatility
- Adjustable work bed with friction brake winch

Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model
IES556	R556 S/A	6.25	Electric 115V	G1121
IES5513	R5513 S/A	13.25		G1121
IED556	RDA556 D/A	6.13		G4172
IED5512	RDA5512 D/A	12		G4172
IMS556	R556 S/A	6.25	Manual	P82A

## HYDRAULIC PRESSES



IES1006 Shown

### 100 TON H FRAME HYDRAULIC PRESSES

- Moveable work head for maximum versatility
- Adjustable work bed with friction brake winch

Model Number With Pump	Type of Cylinder	Cylinder Stroke (in)	Type of Pump	Pump Model
IES1006	R1006 S/A	6.62	Electric 115V	G4163
IES10010	R10010 S/A	10.25		G4163
IED1006	RDA1006 D/A	6.06		G4173
IED10012	RDA10012 D/A	12		G4173

## Simplex Bolting Products

### ► Bolting Features

Simplex offers a wide variety of hydraulic torque wrenches available in square drive design or low clearance wrenches. Optional attachments and accessories are available to complement both style wrenches.

### ► WT-Series Square Drive Wrenches

The Simplex square drive wrench combines strength and simplicity to handle the toughest bolting jobs. Simplex square drive wrenches come with a push through drive in the .75", 1" and 1.5" models, eliminating pulling the drive out of a wrench to change drive direction. Several optional accessories are available.

### ► WX-Series Low Clearance Wrenches

Simplex Low Clearance wrenches are utilizing a patented low height piston. The Simplex WX series wrenches fit in places competitive wrenches cannot. The low clearance wrenches have a wide choice of links available in .06" increments. Metric sizes are also available.

### ► Bolting Accessories

Simplex torque wrench pumps are available in both electric and air power. Simplex electric pumps are smooth running, continuous duty pumps. An integrated auto shut-off switch, along with a steel reservoir, keeps the oil and pump cool and helps prevent pump breakdown.

### TORQUE WRENCH PUMPS



G1171T, G5172T & G5772T Shown

- Small and lightweight G1 pumps are designed for intermittent usage with small torque wrenches
- G3 pumps offer a balance of speed and size and are ideal for small to mid sized torque wrenches
- G5 pumps are robust enough for heavy use and can easily drive mid to large sized torque wrenches
- G5 pneumatic pumps are equipped with a filter-lubricator assembly, air muffler, adjustable relief and 12' remote controlled pendant on all models

Model Number	Oil Flow at 10,000 psi (in <sup>3</sup> /min)	Usable Oil Capacity (gal)	Motor Voltage (VAC)	Air Pressure (psi)
G1171T	19	1	115	-
G3172T	46	1.5	115	-
G5172T	55	1.5	115	-
G5772T	55	1.5	-	60 - 100

### NUT SPLITTERS



NS Series Shown

- Cuts hardened nuts up to grade 8 & 2H
- Maximum pressure 10,000 psi
- Angled head design for easy placement on nut
- Compact, ergonomic, lightweight design

Model Number	Stud Diameter (in)	Nut A/F (in)	Suggested Hand Pump
NS1319	.25 - .44	.5 - .75	P42 / P72
NS1924	.44 - .56	.75 - .94	P42 / P72
NS2432	.56 - .75	.94 - 1.13	P42 / P72
NS3241	.75 - 1	1.13 - 1.56	P42 / P72
NS4150	1 - 1.25	1.56 - 2	P140
NS5060	1.25 - 1.5	2 - 2.25	P140
NS6075	1.5 - 1.87	2.38 - 2.88	P140

### TORQUE WRENCHES



WT2, WT3 & WT5 Shown

- Hardened alloy square drive provides long life
- No reaction pawl eliminates tool lockup
- 27 degree stroke for high performance & speed
- Push through square drive switches from tighten to loosen instantly
- No leak couplers that swivel on double axis for ease of operation
- Anti-Backlash mechanism prevents tool from back-driving

Model Number	Output (ft. lbs.)	Square Drive (in)	Available Socket Size (in)	Available Socket Size (mm)
WT-2	1,270	.75	.5 - 2.38	13 - 60
WT-3	3,330	1	.75 - 4.5	19 - 114
WT-5	7,170	1.5	1.31 - 5.38	33 - 137
WT-10	11,010	1.5	1.31 - 5.38	33 - 137
WT-27	27,200	2.5	1.62 - 9.25	41 - 235



WX2, WX4 & WX8 Shown

- Patented piston design for lower profile
- Quick and easy interchangeable links requiring no tools
- Accurate to within + / - 3%
- Slim nose radius for tight spaces
- Plated wrenches resist corrosion

Model Number	Output (ft. lbs.)	Available Link Sizes (in / mm)	
		From	To
WX-2	1,930	.75" / 19 mm	2.56" / 65 mm
WX-4	3,950	1" / 25 mm	3.13" / 80 mm
WX-8	8,630	1.87" / 50 mm	4" / 105 mm
WX-16	16,600	2.62" / 65 mm	4.62" / 115 mm
WX-32	35,600	3.13" / 80 mm	6.13" / 155 mm

## Simplex Mechanical Jacks

### ► The Widest Selection

Only Simplex can offer a full range of Ratchet Jacks, Screw Jacks, Superjacks, Push/Pull Jacks and Mine Roof Supports to fit a broad range of applications and use.

### ► Unsurpassed Quality

Simplex Jacks have proven to withstand the toughest application and use in today's market. Each Jack component is carefully inspected and assembled by highly skilled assemblers and tested to meet or exceed ANSI B30.1 Safety Standards.

### ► Value and Service

Simplex stands behind every mechanical jack we sell with a NO SMALL PRINT WARRANTY supported by our global network of Industrial Distributors and Authorized Service Centers.

#### RATCHET JACKS



RJ84A, RJ85A, RJ1017 & RJ86A Shown

- Multiple-tooth pawls for strength & safety
- Large base ensures a firm foundation
- Plated springs to resist corrosion
- Double-lever sockets for jacking in close quarters
- The RJA1538 pole jack is designed for pole pulling applications

Model Number	Lifting Capacity (tons)	Stroke (in)	Collapsed Height (in)
<b>RJ Series, Steel Ratchet Jacks</b>			
RJ84A	5	7	14
RJ85A	5	10	17
RJ86A	5	13	20
RJ1017	10	9.5	17.25
RJ22B	10	12	21.62
RJ24A	15	12.75	23.25
RJ2029	15	18	28
<b>RJ Series, Aluminum Ratchet Jacks</b>			
RJA1022	10	12	21.62
RJA1538	8	21.25	37.62

Lever bars sold separately; Chain and I-Beam are ordered separately.

#### SUPER JACKS



JJA2515C, JJ2510C Shown

- Ratcheting screw jack design
- Holds the load indefinitely, and will not creep down
- Positive shoulder stop for safety
- Available with aluminum or ductile iron housing
- Ball bearings for smooth operation and low handle effort

Model Number	Lifting Capacity (tons)	Stroke (in)	Collapsed Height (in)
<b>JJ Series, Steel Super Jacks</b>			
JJ2510C	25	5	10.25
JJ3510D	35	5	10.25
JJ5010B	50	4	10.31
<b>JJ Series, Aluminum Super Jacks</b>			
JJA1510C	15	5	10.25
JJA2510C	25	5	10.25
JJA2515C	25	9	14.87
JJA3510D	35	5	10.25
JJA5010B	50	4	10.31

Lever bars sold separately.

#### SCREW JACKS



Mechanical Screw Jack Family Shown

#### SJ SERIES, STEEL RATCHET JACKS

- Positive welded stop for safety
- Supports loads indefinitely, and will not creep down
- Carry handle for ease of transport
- Four holes for easy positioning of lever bar
- 9° tilt saddle assists in centering load point

Model Number	Load Capacity (tons)	Stroke (in)	Collapsed Height (in)
SJ156	12	3.75	
SJ158	12	5.75	
SJ1512	12	9.75	
SJ208	20	5	
SJ2010	20	7	
SJ2012	20	9	
SJ258	24	4.25	
SJ2512	24	8.25	
SJ2518	24	14.25	

Lever bars sold separately.

#### PLANNER JACKS



PJ1P, PJ2P, PJ3P & PJ4P Shown

#### PJ SERIES, STEEL SUPER JACKS

- Side locking screw keeps the jack extended and prevents lowering due to vibration
- Screw operation provides countless adjustments for exact leveling
- Ball and socket cap swivels to center load forces
- Notched base fastens easily to machine beds

Model Number	Load Capacity (tons)	Stroke (in)	Collapsed Height (in)
PJ1P	2	1	2.75
PJ2P	4	1.5	3.75
PJ3P	6	2.25	5.25
PJ4P	8	4	7.5

Lever bars sold separately.

## PUSH/PULL JACKS



PP61015 Shown

### PP SERIES, PUSH/PULL JACKS

- Used for pushing, pulling, holding and more
- End nuts are designed to permit the use of chains with eye hooks
- Suitable for adjusting forms, dampers, fixtures and flues

Model Number	Load Capacity (tons)	Travel (in)	Screw Diameter (in)
PP610	10	4.5	1.25
PP61015	10	-	1.25

Lever bars sold separately.

## LOADBINDER JACKS



SER20 & SER30 Shown

### SER SERIES, LOADBINDER JACKS

- Ideal for bridge construction, steel engineering projects and connecting river barges
- Equipped with spring activated pawl and 26 in. integrated handle

Model Number	Load Capacity (tons)	Travel (in)	Screw Diameter (in)
SER10	20	14	2
SER20	20	20	2
SER30	20	26	2
SER40	20	38	2

Integrated handle.

## ROOF SUPPORTS



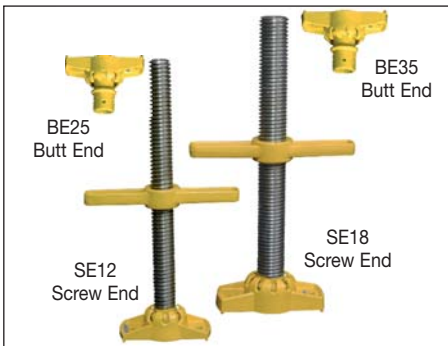
09618, RS139AS78114 Shown

### RS SERIES, ALUMINUM ROOF SUPPORTS

- Holds the load indefinitely without creep down
- A variety of head style options are available

Model Number	Load Capacity (tons)	Stroke (in)	Collapsed Height (in)
9606	4	26	45
9610	4	38	57
9611	4	38	57
9614	4	38	69
9615	4	38	69
9616	4	38	75
9618	4	38	88
9619	4	38	88
9625	4	38	88
9814	5	36	66
RS139AS78114	5	36	78

## TRENCH BRACES



### SE & BE SERIES, TRENCH BRACES

- Provides an efficient, economical protection against cave-ins and costly re-digging in construction & maintenance
- Ball socket joints tilt for added safety on angular mounting
- Holes on each end facilitates mounting to wood members

Model Number	Adjustable Range (in)	Pipe Size (in)	End Style
SE12	7	1.5	Screw
SE16	10	1.5	Screw
SE18	10	2	Screw
BE25	SE12 / SE16		Butt
BE35	SE18		Butt

Screw & butt ends sold separately.

Simplex is committed to delivering a high quality product at a competitive price. In addition, our products offer features and benefits beyond the simple product specifications.

Please see your local local Simplex distributor or territory manager for information beyond this brochure. Or visit [www.tksimplex.com](http://www.tksimplex.com) for additional products and information.

PUMP AND SYSTEM COMPONENT CROSS REFERENCE		
Simplex	Power Team	BVA
P20	P23	-
P41	P55	P601S
P82A	P159	P2301
P461	P460	P8701
P461D	P460D	P8701M
P32	P19L	P350
P71	-	P1201S
P72	P59L	P1000
GA90	PA6	PA1500
GA90R	PARG1102N	PA1500L
GA9230	PA6M-1	PA3801
GA9230D	PA6DM-1	PA3801M
GA9230R	-	PA3801L
G7	9052	GW4014
GT20	9063	-
GT25	9059	-
GT30	9069	-
GT5	9055	-
HA3	9755	CS3814B
HA6	9756	CS3814
HA10	9758	CS3814C
HA20	9760	CS3814D
HA50	9762	-
HCA3	-	CS3814BM
HCA6	9754	CS3814M
HCA10	-	CS3814CM
HCA20	-	CS3814DM
HD50	9779	CS3838F
HDC10	9777	CS3838C
HDC10	-	CS3838CM
HDC20	9778	CS3838D
HDC20	-	CS3838DM
HDC6	9776	CS3838
HDC6	-	CS3838M

CYLINDER CROSS REFERENCE		
Simplex	Power Team	BVA
R50	RLS50	HF0503
R51	C51C	H0501
R53	C53C	H0503
R55	C55C	H0505
R57	C57C	H0507
R59	C59C	H0509
R101	C101C	H1001
R102	C102C	H1002
R104	C104C	H1004
R106	C106C	H1006
R108	C108C	H1008
R1010	C1010C	H1010
R1012	C1012C	H1012
R1014	C1014C	H1014
R152	C152C	H1502
R154	C154C	H1504
R156	C156C	H1506
R1510	C1510C	H1510
R1514	C1514C	H1514
R251	C251C	H2501
R252	C252C	H2502
R254	C254C	H2504
R256	C256C	H2506
R258	C258C	H2508
R2510	C2510C	H2510
R2512	C2512C	H2512
R2514	C2514C	H2514
R308	-	H3008
R50	-	H0500
R552	C552C	H5502
R554	C554C	H5504
R556	C556C	H5506
R5513	C5513C	H5513
R756	C756C	H7506
R7513	C7513C	H7513
R1006	C1006C	H10006
R10010	C10010C	H10010
RLS101	RSS101	HL1001
RLS201	RSS202	HL2002
RLS302	RSS302	HL3002
RLS502	RSS502	HL5002
RLS1002	RSS1002	HL10002

Simplex suggests these cross referenced parts as alternate products, however, there are differences in product design and specifications that result in different dimensions and performance. Customers should verify suitability of these products for their application.



CYLINDER CROSS REFERENCE (continued)		
Simplex	Power Team	BVA
RFS10A	RLS100	HF1005
RFS20A	RLS200	HF2005
RFS30A	RLS300	HF3005
RFS50A	RLS500S	HF5006
RFS75A	RLS750S	HF7506
RFS100A	RLS1000S	HF10006
RFS150A	RLS1500S	HF15006
RC120A	RH120	HC1201T
RC121A	RH121	HC1202T
RC123A	RH123	HC1203XT
RC202A	RH202	HC2002T
RC206A	RH206	HC2006T
RC302A	RH302	HC3002T
RC306A	RH306	HC3006T
RC307A	RH306D	HCD3007
RC603A	RH603	HC6003T
RC606A	RH606	HC6006T
RC1003A	RH1003	HC10003T
RDA5006	R5656D	HDG50006
RDA50012	R56513D	-
RDA2002	R2002D	HDG20002
RDA4006	R4306D	-
RDA1506	R1506D	HDG15006
RDA2006	R2006D	HDG20006
RDA3006	R3556D	HDG30006
RDA15012	R15012D	HDG15012
RDA20013	R20012D	HDG20012
RDA30012	R35512D	-
RDA40012	R43012D	HDG40012
RDA10006	RC12206D	-
RDA5006	RD5006	HD50006
RDA20013	RD20013	HD20013
RDA15012	RD15013	-
RDA4006	RD4006	-
RDA1010	RD1010	HD1010
RDA308	RD256	HD3008
RDA3014	RD2514	HD3014
RDA5512	RD5513	HD5513
RDA2006	RD2006	HD20006
RDA556	RD556	HD5506
RDA10012	RD10013	HD10013
RDA1506	RD1506	-
RDA1006	RD1006	HD10006
RDA40012	RD40013	-

CYLINDER CROSS REFERENCE (continued)		
Simplex	Power Team	BVA
RDA3006	RD3006	HD30006
RDA30012	RD30013	-
RDA50012	RD50013	-
RLN100012	RC122010L	HLN100012
RLN10002	RC12202L	HLN100002
RLN10006	RC12206L	HLN100006
RLN10010	R10010L	HLN10010
RLN1002	R1002L	HLN10002
RLN1006	R1006L	HLN10006
RLN150	R1502L	HLN15002
RLN15012	-	HLN15010
RLN1506	R1506L	HLN15006
RLN20012	-	HLN20012
RLN2002	R2002L	HLN20002
RLN2006	R2006L	HLN20006
RLN30012	-	HLN30012
RLN3002	R3552L	HLN30002
RLN3006	R3556L	HLN30006
RLN40012	R43010L	HLN40012
RLN4002	R4302L	HLN40002
RLN4006	R4306L	HLN40006
RLN5002	R5652L	-
RLN5006	R5656L	-
RLN5010	R5510L	HLN5510
RLN502	R552L	HLN5502
RLN506	R556L	HLN5506
RLN60012	-	HLN60012
RLN6002	-	HLN60002
RLN6006	-	HLN60006
RLN80012	R96510L	HLN80012
RLN8002	R9652L	HLN80002
RLN8006	R9656L	HLN80006
RLR100012	-	HG100012
RLR10002	RC12202C	-
RLR10006	RC12206C	-
RLR1006	R1006C	HG10006
RLR15012	-	HG15012
RLR1502	R1502C	HG15002
RLR1506	R1506C	HG150006
RLR20012	-	HG20012
RLR2006	R2006C	HG20006
RLR2006	R2002C	HG20002
RLR3002	R3552C	-
RLR3006	R3556C	-

CYLINDER CROSS REFERENCE (continued)		
Simplex	Power Team	BVA
RLR4002	R4302C	-
RLR4006	R4306C	-
RLR5002	R552C	-
RLR5002	R5652C	-
RLR5006	R5656C	HG50006
RLR5010	R5510C	-
RLR506	R556C	-
RLR6002	RC7402C	-
RLR6006	RC7406C	-
RLR8002	RC9652C	-
RLR8006	RC9656C	-
RLS1002	RSS1002	HL10002
RLS101	RSS101	HL1001
RLS201	RSS202	HL2002
RLS302	RSS302	HL3002
RLS502	RSS502	HL5002
CLP1002	RC1002P	HLNF10002
CLP5002	RC6202P	-
CLP602	RC0552P	HLNF6002
CLP1602	RC1552P	HLNF16002
CLP4002	RC3802P	-
CLP2502	RC2402P	-
CLP2002	-	HLNF20002

Simplex suggests these cross referenced parts as alternate products, however, there are differences in product design and specifications that result in different dimensions and performance. Customers should verify suitability of these products for their application.



A Century of Product Integrity

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**Product Portfolio**