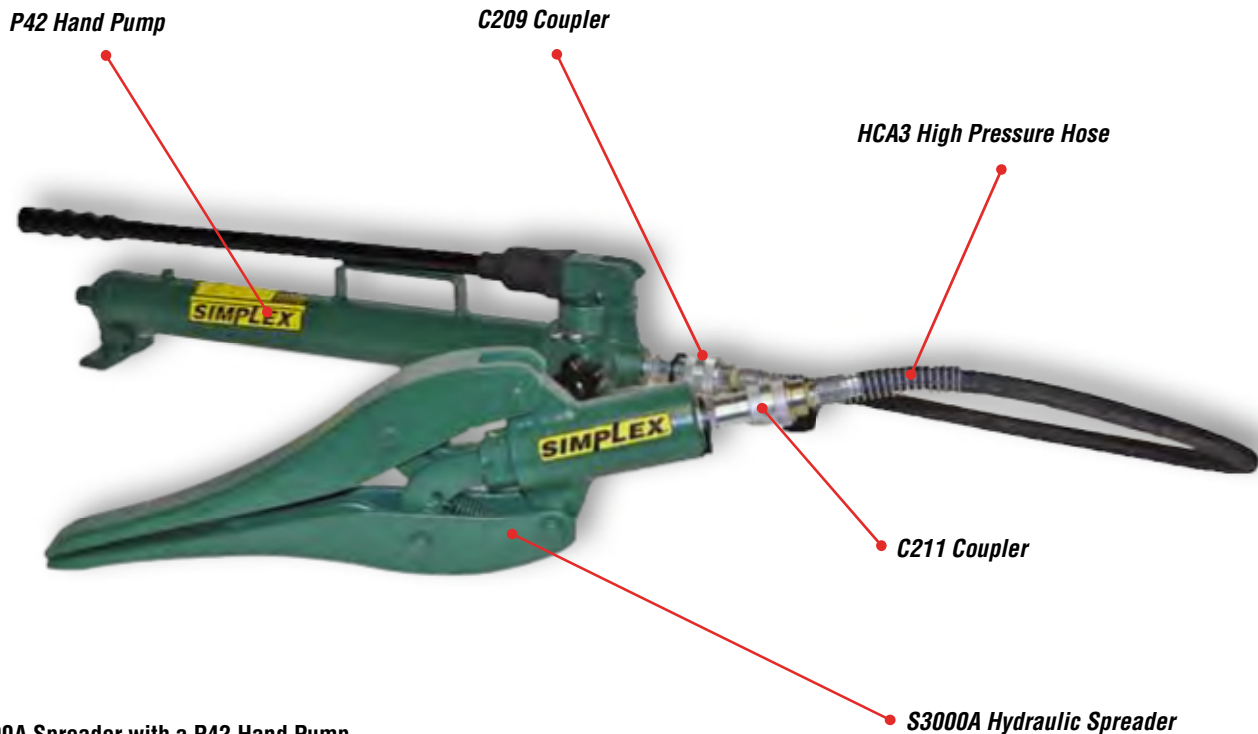


HYDRAULIC TOOLS





PRODUCT LINE OVERVIEW

► Specialty Tools

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

► Spreaders

From flange spreading to emergency rescue, Simplex can supply a suitable solution in hydraulic or mechanical spreading.

► Configured to Meet a Broad Range of Requirements

Whether it's collision repair, general maintenance or specialized spreading, clamping or holding, Simplex maintenance kits come complete with the largest assortment of attachments.

Hydraulic Nut Splitters

Simplex nut splitters fit up to 8 nut sizes and offer greater value and versatility. The specifically designed head fits all A.P.I. and ANSI flanges and cuts nuts .5" to 2.88". You can easily calibrate the cutting chisel so only the nut is cut without damaging the bolt or stud. Simplex splitters will cut the hardest nuts, up to grade 8 and 2H (ASTMA 194/2H), Brinell hardness 248-325.



Hydraulic Spreaders

The Simplex S2000A (1 ton) and S3000A (.75 ton capacity) spreaders are the perfect fit for close clearance jobs. The SF5 spreader offers 5 tons of spreading force with a .13" starting clearance. It is one of Simplex's most versatile tools for spreading.



Single Acting Portable Punch

Simplex 35 Ton Single-Acting Portable Punch mounted motor control handle (included with SPH35A) provides easy operation and greater operator safety. Punches and dies are interchangeable with competitive punches.



Hydraulic Maintenance Kits

The Simplex MK106 Maintenance Kit provides a complete assortment of attachments that greatly expands the range of applications. Using these various attachments allows you to custom build spreaders, straightening tools, clamps and a wide variety of other problem solving maintenance tools.



HYDRAULIC TOOLS

SPH Series - Single Acting Punch

SIMPLEX



SPH35A Shown

Capacity ▶ 35 tons
Maximum Thickness ▶ .5 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Industrial grade, single acting, spring return design.
- ▶ Punches holes in material up to .5" thick mild steel.
- ▶ All models come equipped with a heavy duty steel case, providing tool and die organization along with ease of transport.
- ▶ Large selection of square, rounded and oblong dies and punches are offered to complete a wide variety of applications.

HOSES - pages 78 - 79



Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

POWER PUMPS - pages 43 - 65



Simplex offers a wide variety of lightweight power pumps to fit any application.

GAUGES - page 77



Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.

Simplex offers a punch mounted motor control so that work can be performed safely and more productively as shown in this fabricating shop. ▼

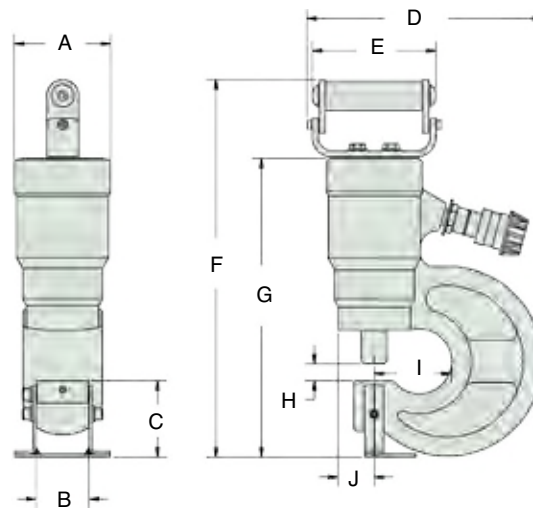
SPH35SPA Kit Includes:

Punch - Case - Punch & Die Set - Pump - Hose



Model	Punch	Steel Case	Punch & Die Set	Pump	Pump Voltage	Hose	Weight Punch Only (lbs.)
SPH35A	SPH35A	Yes	----	----	----	----	32
SPH35SA	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81	----	----	----	32
SPH35SPA - 115	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81	G1101F	115	HCA6	32
SPH35SPA - 230	SPH35A	Yes	DS-44, DS-56, DS-69, DS-81	G1201F	230	HCA6	32
*SPH35MA	SPH35A	Yes	DS-38, DS-44, DS-53, DS-69	----	----	----	32
*SPH35MPA - 115	SPH35A	Yes	DS-38, DS-44, DS-53, DS-69	G1101F	115	HCA6	32
*SPH35MPA - 230	SPH35A	Yes	DS-38, DS-44, DS-53, DS-69	G1201F	230	HCA6	32

* "M" = METRIC DIE SET



Punch Dimensions

	A	B	C	D	E	F	G	H	I	J
Imperial	3.75	2.06	2.97	9.16	4.81	14.66	11.6	.66	3	1.42
Metric	95.25	52.32	75.43	232.66	122.17	372.36	294.64	16.76	76.2	36.06

QUALITY OF STEEL REFERENCE TABLE

A: Mild A-7
 B: Boiler Plate
 C: Structural A-36
 D: Struct Corten (ASTM A242)

E: Cold Rolled C-1018
 F: Hot Rolled C-1050
 G: Hot Rolled C-1095
 H: Hot Rolled C-1095 Annealed

I: Stainless Annealed
 J: Stainless 304 Hot Rolled
 K: Stainless 316 Cold Rolled

Contact Factory for additional dimensions.

Hole Type	Punch Model	Die Model	Punch & Die Set	Bevel Punch & Die Set for I-Beams	Bevel Punch & Die Set for U-Beams	Hole Size		Bolt Size		A	B	C	D	E	F	G	H	I	J	K
						(in)	(mm)	(in)	(mm)											
Round	DP-31	DD-31	DS-31	DSB-31	---	.31	7.9	.25	---	.31	.31	.25	.25	.25	.25	.13	.19	.25	.25	.25
Round	DP-38	DD-38	DS-38	DSB-38	---	.38	9.5	.31	M8	.38	.38	.31	.31	.31	.31	.19	.25	.31	.31	.31
Round	DP-44	DD-44	DS-44	DSB-44	DSBU-44	.44	11.1	.44	M10	.44	.44	.38	.38	.38	.31	.19	.31	.31	.31	.31
Round	DP-53	DD-53	DS-53	DSB-53	DSBU-53	.53	13.5	.44	M12	.50	.50	.44	.44	.44	.38	.25	.31	.38	.38	.38
Round	DP-56	DD-56	DS-56	DSB-56	---	.56	14.3	.5	---	.50	.50	.50	.44	.50	.44	.25	.38	.44	.44	.44
Round	DP-69	DD-69	DS-69	DSB-69	DSBU-69	.69	17.5	.62	M16	.50	.50	.50	.44	.50	.40	.25	.31	.40	.40	.40
Round	DP-78	DD-78	DS-78	---	---	.78	19.8	---	M18	.50	.50	.50	.44	.50	.38	.25	.31	.38	.39	.38
Round	DP-81	DD-81	DS-81	---	---	.81	20.6	.75	---	.50	.50	.50	.44	.50	.31	.19	.31	.31	.31	.31
Square	DP-45	DD-45	DS-45	---	---	.31	7.9	.25	---	.31	.31	.25	.25	.25	.25	.13	.19	.25	.25	.25
Square	DP-54	DD-54	DS-54	---	---	.38	9.5	.31	M8	.38	.38	.31	.31	.31	.31	.19	.25	.31	.31	.31
Square	DP-63	DD-63	DS-63	---	---	.44	11.1	.38	M10	.44	.44	.38	.38	.38	.31	.19	.31	.31	.31	.31
Square	DP-72	DD-72	DS-72	---	---	.50	12.7	.44	M12	.50	.50	.44	.44	.44	.38	.25	.31	.38	.38	.31
Oblong	DP-10	DD-10	DS-10	---	---	.31 x .75	7.9 x 19	.25	---	.31	.31	.25	.25	.25	.25	.13	.19	.25	.25	.25
Oblong	DP-12	DD-12	DS-12	---	---	.38 x .75	9.5 x 19	.19	M8	.38	.38	.31	.31	.31	.31	.19	.25	.31	.31	.31
Oblong	DP-18	DD-18	DS-18	---	---	.44 x .75	11.1 x 19	.38	M10	.44	.44	.38	.38	.38	.31	.19	.31	.31	.31	.31
Oblong	DP-25	DD-25	DS-25	---	---	.50 x .75	12.7 x 19	.44	M12	.50	.50	.44	.44	.44	.38	.25	.31	.38	.38	.38

HYDRAULIC TOOLS

S Series - Hydraulic Spreaders

SIMPLEX



Capacity Range ▶ .75 - 1 ton

Weight ▶ 5 - 25 lbs.

Spread Range ▶ .38 - 11.5 in.

- ▶ Closed narrow ends starting at .38".
- ▶ Large spreading range up to 11.5".
- ▶ Return spring assists the jaws to the closed position.
- ▶ Durable all metal construction to withstand any tough environment.
- ▶ Quality high flow coupler for fast tool setup.

S2000A and S3000A Shown

HOSES - pages 78 - 79



Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

COUPLERS - pages 74 - 75



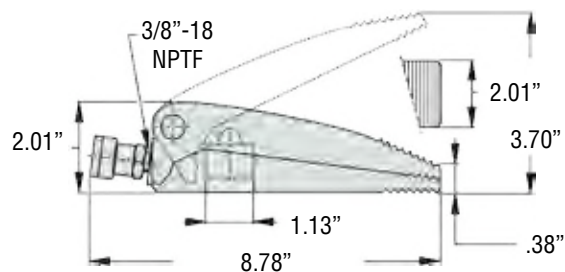
High flow quick disconnect couplers provide a quick change to a variety of pumps.



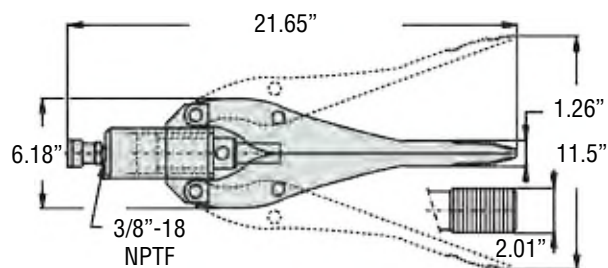
POWER PUMPS - pages 43 - 65

Simplex offers a wide variety of lightweight power pumps to fit any application.

S2000A



S3000A



The Simplex S2000A spreader was used to remove this rusted anchor plate from a brick wall for mortar patching to begin. ▼



Model	Capacity (tons)	Pressure @ Capacity (PSI)	Oil Capacity Required (cu.in.)	Weight (lbs)	Width (in)	Suggested Hand Pump
S2000A	1	10,000	.61	5	2.01	P42
S3000A	.75	10,000	3.91	25	2.01	P42



SF5 Shown

Capacity ► 5 tons
 Weight ► 17 lbs.
 Spread Range ► .13 - 3 in.

- 5 tons of spreading force.
- .13" through 3" spreading capability.
- Jaws open parallel.
- Will not drift or creep-down.
- All metal construction.



GAUGES - page 77

Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



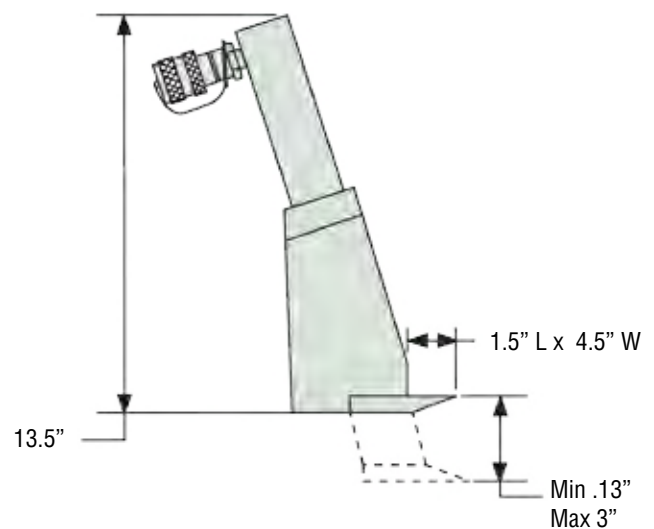
HAND PUMPS - pages 31 - 41

Handpump design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



◀ SF5 Spreaders are used in pairs to spread the flanges equally for general maintenance and repair.

Boasting 5 tons of spreading force and 3 inches of operational lift, the SF5 is the most versatile tool for heavy equipment maintenance. ▼



Model	Capacity (tons)	Oil Capacity Required (cu.in.)	Pressure @ Capacity (PSI)	Weight (lbs)	Spread		Suggested Hand Pump
					Min. (in)	Max. (in)	
SF5	5	5	10,000	17	.13	3	P22

HYDRAULIC TOOLS

NS Series - Nut Splitters

SIMPLEX



NS Series Shown

Nut Range► .5 - 2.88 in.

Weight► 1.8 - 75.1 lbs.

Maximum Pressure► 10,000 psi

- Cuts hardened nuts up to grade 8 & 2H.
- Replacement chisel and set screws included.
- Cuts nuts from .5" to 2.88".
- Rugged carrying case included.
- Not designed to cut square nuts.

HOSES - pages 78 - 79



Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

THINK SAFETY



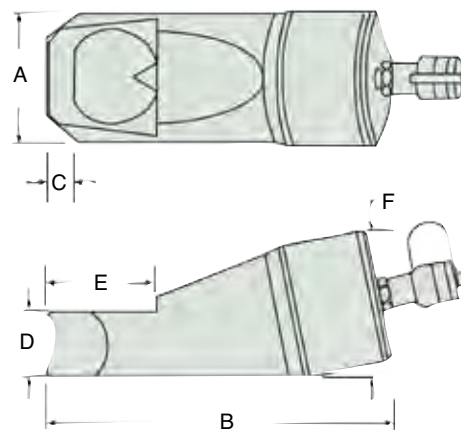
Please refer to pages 4&5 for a complete list of safety tips and recommendations.

COUPLERS - pages 74 - 75



High flow quick disconnect couplers provide a quick change to a variety of pumps.

Refineries, steel mills and power plants rely heavily on Simplex nut splitters for removing stubborn or rusted nuts easily and safely. ▼



Model	Stud Diameter (in)	Nut A/F (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Wgt. (lbs.)	Suggested Hand Pump
NS1319	.25 - .44	.5 - .75	1.57	4.76	.28	.75	1.14	1.93	1.8	P42 / P72
NS1924	.44 - .56	.75 - .94	2.13	5.77	.39	.98	1.57	2.42	4.4	P42 / P72
NS2432	.56 - .75	.94 - 1.13	2.52	7	.51	1.18	2.05	2.99	6.6	P42 / P72
NS3241	.75 - 1	1.13 - 1.56	2.97	8.09	.63	1.42	2.56	3.38	9.7	P42 / P72
NS4150	1 - 1.25	1.56 - 2	3.70	9.61	.83	1.77	3.00	4.17	18	P140
NS5060	1.25 - 1.5	2 - 2.25	4.17	10.60	.94	2.13	3.62	4.90	26	P140
NS6075	1.5 - 1.87	2.38 - 2.88	6.26	14.37	1.06	2.95	4.37	7.20	75.1	P140



Capacity ► **10 tons**

Weight ► **84 lbs.**

- Set includes a Simplex hand pump, cylinder, hose, gauge and gauge adapter.
- Heavy duty case included.
- Rated at 5 tons when attachments are used.
- Quick lock and threaded adaptors included.
- Order as a set or individual components.

MK106 Shown



THINK SAFETY

Please refer to pages 4&5 for a complete list of safety tips and recommendations.



R106 is rated at 10 tons at 10,000 psi. When using attachments or extensions do not exceed 5,000 psi (5 tons) reading on the gauge. Accessories & extensions are only rated at 5 tons. S2000A Spreader has an operating capacity of 1 ton.



- ◀ Add collar toe and flat base to build custom spreader or toe jack.



- ◀ Extensions, custom heads and adapters allow you to create tools that solve hundreds of problems. Simplex MK106 kits are used extensively for collision repair.




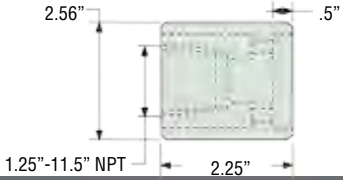

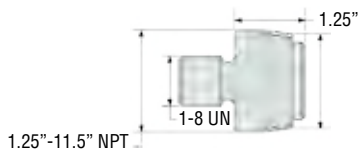

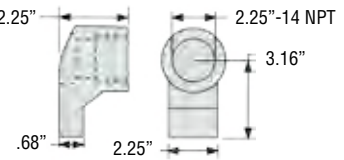

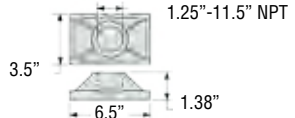


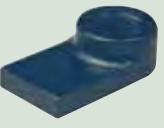
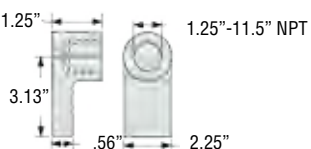

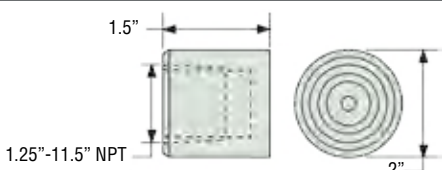
- ◀ Add a V-base and flat base for special spreading, holding and bending jobs.

Model	Capacity (tons)	Cylinder	Hand Pump	Hose	Gauge	Gauge Adapter	Attachments	Spreader	Box	Weight (lbs)
MK106	10	R106	P42	HCA6	G5	GA1	MK-4 thru MK-20	S2000A	MK-21	84

HYDRAULIC TOOLS


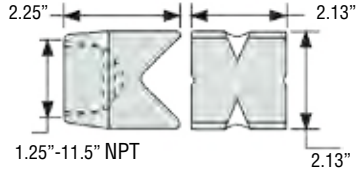

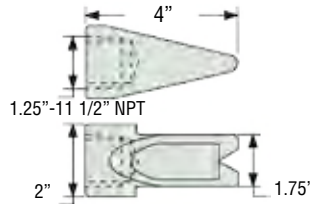

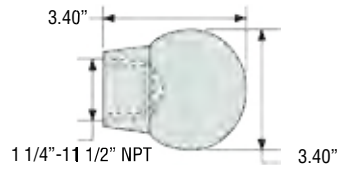

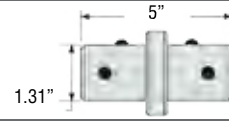

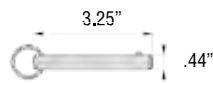








MK Series - Kit Components

SIMPLEX

Model	Description	Dimensions
	MK-4 <i>Base Attachment (Qty. 1)</i>	
	MK-5 <i>Threaded Adaptor (Qty. 1)</i>	
	MK-6 <i>Collar Toe (Qty. 1)</i>	
	MK-7 <i>Flat Base (Qty. 1)</i>	
	MK-8 <i>Threaded Connector (Qty. 1)</i>	
	MK-9 <i>Threaded Plunger Toe (Qty. 1)</i>	
	MK-10 <i>Grooved Saddle (Qty. 1)</i>	



Maintenance Kit - MK106

Model	Description	Dimensions
 MK-11	90° V-Base (Qty. 1)	
 MK-12	Wedge Head (Qty. 1)	
 MK-13	Flex Head (Qty. 1)	
 MK-14	Lock On Connector (Qty. 3)	
 MK-15	Lock Pin (Qty. 4)	
 MK-16	Male Lock On Adapter (Qty. 1)	
 MK-17	Female Lock On Adapter (Qty. 1)	
Extensions and Box		
 MK-18	5 Inch Extension Pipe (Qty. 1)	
 MK-19	10 Inch Extension Pipe (Qty. 1)	
 MK-20	18 Inch Extension Pipe (Qty. 1)	
 MK-21	Wooden Box (Qty. 1)	

* All components are included in the MK106 Maintenance Kit.

* All components can be ordered separately.