



Holmatro® PowerShore[®]

Powerful, safe, versatile

Page	Components
2	Struts with air cylinder
2	Struts with hydraulic cylinder
3	Mechanical struts
3	Extension pipes
3	Pump set hydraulic cylinders
3	Accessories - air cylinders
4	Saddles: saddle, tilting saddle, beam supports, L-support, swivel head, V-blocks
5	Saddles: cone head, cross head, pointed head
5	Accessories: support plate, tensioning belt, storage / carrying bags
6	Set composition PowerShore – Vehicle Stabilization
6	Set composition PowerShore – Structural Collapse w/ Air Struts
7	Set composition Power Shore – Trench Shoring Kit w/ Air Struts
7	Set composition PowerShore – Structural Collapse w/Hydraulic & Mechanical struts
8	Graph max. allowed load PowerShore

AS 3 * - STRUTS WITH AIR CYLINDER**
All struts are equipped on both sides with the female snap-lock system.
All struts can be used with extension pipes and saddles.


locking system	Model	Article No.	retracted length (in)	stroke (in)	weight (lb)	working pressure (psi)	force at working pressure (kN/t)	max. air @ 8 bar (cu.ft.)
Quick lock with integrated spacer (AS 3 Q ** FL) Plunger with automatic locking mechanism that locks in steps of 9 mm. Retracting the plunger is only possible after releasing the locking mechanism. The integrated spacer, a spring operated flex mechanism with 13mm stroke, is used to overcome one 9 mm step of the quick lock system and creates a max. pretension in the strut of 4.0kN.	AS 3 Q 5 FL	150.011.546	24.9	9.92	18.5	116	4.0 kN/0.45t	0.72
	AS 3 Q 10 FL	150.011.545	43.0	9.92	24.7	116	4.0 kN/0.45t	0.72
	AS 3 Q 15 FL	150.011.544	62.7	9.92	28.7	116	4.0 kN/0.45t	0.72
	AS 3 Q 20 FL	150.011.526	82.4	9.92	32.6	116	4.0 kN/0.45t	0.72
Lock Nut (AS 2 L ** +) Plunger with thread and a lock nut. When the plunger is extended the lock nut can be secured. The pressure can then be released. Axial displacement per rotation is 16.5 mm.	AS 3 L 5 +	150.011.532	22.6	9.92	16.1	116	4.0 kN/0.45t	0.72
	AS 3 L 10 +	150.011.531	40.7	9.92	22.3	116	4.0 kN/0.45t	0.72
	AS 3 L 15 +	150.011.529	60.4	9.92	26.2	116	4.0 kN/0.45t	0.72
	AS 3 L 20 +	150.011.527	80.1	9.92	30.2	116	4.0 kN/0.45t	0.72

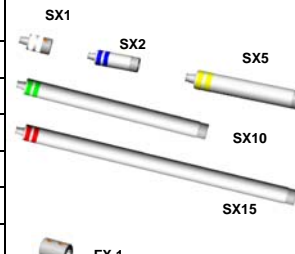



HS 1 * - STRUTS WITH HYDRAULIC CYLINDER**
All struts are equipped on both sides with the female snap-lock system. Cylinders are single acting with spring return.
All struts can be used with extension pipes and saddles.

locking system	Model	Article No.	retracted length (in)	stroke (in)	weight (lb)	working pressure (psi)	force at working pressure (kN/t)	oil contents at max. stroke (cc)
Quick lock with integrated spacer (HS 1 Q ** FL) Plunger with automatic locking mechanism that locks in steps of 9 mm. Retracting the plunger is only possible after releasing the locking mechanism. The integrated spacer, a spring operated flex mechanism with 13mm stroke, is used to overcome one 9 mm step of the quick lock system and creates a max. pretension in the strut of 4.0kN.	HS 1 Q 5 FL	150.011.547	24.9	9.9	22.7	10,500	99.8 kN/11.2 t	346
	HS 1 Q 10 FL	150.011.536	43.0	9.9	28.7	10,500	99.8 kN/11.2 t	346
	HS 1 Q 15 FL	150.011.534	62.7	9.9	32.6	7,107	68.0 kN/7.6 t	346
Lock Nut (HS 1 L ** +) Plunger with thread and a lock nut. When the plunger is extended the lock nut can be secured. The pressure can then be released. Axial displacement per rotation is 16.5 mm.	HS 1 L 5 +	150.011.543	22.6	9.9	20.3	10,500	99.8 kN/11.2 t	346
	HS 1 L 10 +	150.011.537	40.7	9.9	26.2	10,500	99.8 kN/11.2 t	346
	HS 1 L 15 +	150.011.535	60.4	9.9	30.2	7,107	68.0 kN/7.6 t	346


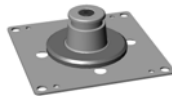


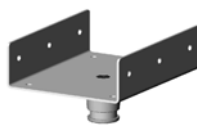



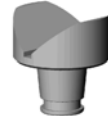



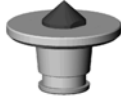





MS 2L * - MECHANICAL STRUTS						
All struts are equipped on both sides with the female snap-lock system. All struts can be used with extension pipes and saddles.						
locking system	Model	Article No.	retracted length (in)	stroke (in)	weight (lb)	
Thread Plunger with thread at both ends. When the plunger is extended the thread is self-retaining. Axial displacement per rotation is 16.5 mm.	MS 2 L 2 +	150.011.538	9.8	4.7	7.7	 <p>MS 2 L 2 +</p> <p>MS 2 L 5 +</p>
Lock Nut Plunger with thread and a lock nut. When the plungers is extended the lock nut can be secured. Axial displacement per rotation is 16.5 mm.	MS 2 L 5 +	150.011.533	22.6	9.9	14.8	

EXTENSION PIPES						
The extension pipes are equipped with the male snap-lock system on one side and the female snap-lock system on the other side, except model FX 1. The FX 1 connector is used to connect the male end of an extension pipe with one of the saddles. In this way it is possible to make a fixed strut.						
Model	Article No.	approx. length mm (in.)	color code	weight (lb)	working load (kN/t)	
SX 1	150.011.501	125 (5)	white	3.307	99.8 kN / 11.2 t*	 <p>SX1</p> <p>SX2</p> <p>SX5</p> <p>SX10</p> <p>SX15</p> <p>FX 1</p>
SX 2	150.011.502	250 (10)	blue	4.189	99.8 kN / 11.2 t*	
SX 5	150.011.503	500 (20)	yellow	6.173	99.8 kN / 11.2 t*	
SX 10	150.011.504	1000 (39)	green	10.141	99.8 kN / 11.2 t*	
SX 15	150.011.506	1500 (59)	red	14.110	99.8 kN / 11.2 t*	
FX 1	150.011.505	125 (5)	-	3.086	99.8 kN / 11.2 t*	
* depending on total length (see graph max. allowed load on page 8)						

PUMP SET			
To be used in combination with struts with hydraulic cylinder (HS 1 * II)			
contents pump set	Model	Article No.	
Hand pump HTW 700 APS, oil contents 700 cc, weight 21.8 lb., pressure gauge 0-10,500 psi, rubber protection cover for pressure gauge, hose 10 ft, quick-coupler.	HTW 700 APS	150.012.504	

ACCESSORIES - AIR			
To be used in combination with struts with air cylinder (AS 3 * **)			
Description	Model	Article No.	
Pressure regulator for use with SCBA bottles (CGA346) 0 to 4000 PSI inlet - 0 to 200 PSI outlet	PRV120U	350.582.021	
Pressure regulator for use with SCBA bottles (CGA347) 0 to 6000 PSI inlet - 0 to 200 PSI outlet	HPRV120U	350.582.023	
Single control valve with deadman style push button controls and safety relief valve.	SCV-10U	358.582.013	
Dual Control Valve with deadman style push button controls and safety relief valves.	DCV-10U	358.582.014	
32 ft. yellow air hose	AH10YU	358.572.006	
32 ft. red air hose	AH10RU	358.572.009	
32 ft. blue air hose	AH10BU	358.572.012	
Plastic storage case	Accy. Case	158.581.038	

SADDLES			
All saddles are equipped with the mail snap-lock system and can be used in combination with the struts and extension pipes.			
Model/use	Article No.	Specifications	Picture
Saddle - Aluminum This saddle can be used for support against a flat, preferably soft surface like wood.	150.011.509	weight: 0.66 lb diameter: 3.5 in option: rubber covered	
Saddle - Aluminum This saddle can be used for support against a flat, preferably soft surface like wood. The steel plate (150 x 150 mm) has holes to nail the saddle to wood.	150.011.541	weight: 1.76 lb dimensions: 6 x 6 in option: rubber covered	
Tilting Saddle - Aluminum This saddle can be used for support on uneven or tilting surfaces.	150.011.512	weight: 3.75 lb max. angle: 45° (in all directions) dimensions: 3¾ x 3¾ in option: rubber covered	
Tilting Saddle - Aluminum This saddle can be used for support on uneven or tilting surfaces. The steel plate (150 x 150 mm) has two holes to nail the tilting saddle to wood.	150.011.048	weight: 5.5 lb max. angle: 45° (in all directions) dimensions: 6 in x 6 in option: rubber covered	
Beam Support This beam support can be used for support on or against beams up to 50 mm / 6" wide. The beam support has holes to nail it to wooden beams.	150.011.513	weight: 3.75 lb max. beam width: 6 in option: rubber covered	
Beam Support This beam support can be used for support on or against beams up to 100 mm / 4" wide. The beam support has holes to nail it to wooden beams.	150.011.514	weight: 2.65 lb max. beam width: 4 in option: rubber covered	
L-Support This support can be used for support on or against very wide beams. The beam support has holes to nail it to wooden beams.	150.011.520	weight: 2.2 lb option: rubber covered	
Swivel Head - Aluminum The swivel head is mounted on a sphere that makes it possible to place the head in almost any position. Through its special design swivel heads can be placed against each other for mutual support. In this way, a number of cylinders or extension pipes can be positioned against each other.	150.182.046	weight: 4.4 lb	
V-Block Aluminum The V-block can be used for support on or against pipes.	150.011.516	weight: 1.5 lb diameter: 3½ in option: rubber covered	
V-Block Aluminum The V-block can be used for support on or against pipes.	150.011.522	weight: 3.75 lb dimensions: 5½ in x 4 in (opening x width) option: rubber covered	

SADDLES			
All saddles are equipped with the mail snap-lock system and can be used in combination with the struts and extension pipes.			
Model/use	Article No.	Specifications	Picture
Cone head The cone head, with hardened steel point, can be used for support on or against hard concrete or steel surfaces.	150.011.517	weight: 1.1 lb	
Cross head The cross head, a combination of connector with snap-lock system and a cross head, can be used for extra support on many kinds of surfaces.	150.011.523	weight: 2.2 lb option: rubber covered	
Pointed head The pointed head, a combination of connector with snap-lock system and a pointed head, can be used for supporting for example narrow gaps.	150.011.524	weight: 1.3 lb	
Support plate With the help of the support plate, tensioning belts and cylinders or extension pipes, objects can be supported. By positioning 3 swivel heads on the support plate a stable triangle can be created to strut for example buildings. The plate can support 3 swivel heads or a cross head and up to 3 tensioning belts.	150.011.519	weight: 3.2 lb	
Support plate - zinc-plated steel The support plate can be nailed to wooden plates in e.g. a trench. It can support 2 swivel heads.	150.011.549	weight: 2 lb dim: 11 x 4.3 x 3 in	
Tensioning belt kit	158.011.004	Kit Includes: 2 - Belts & Ratchets 1 - Hook Cluster 1 - "J" Hook 1 - Storage Box	
Adjustable hook wrench To create a pre-load with the MS 2 L 2 +, two hook wrenches are advised.	150.581.689	diameter: 3.54 in	
Storage / carrying bag for accessories	150.011.005		
Storage / carrying bag for struts and extension pipes	150.011.006	max.: 6 cylinders of 40 in. length	
Anti-roll Block - The anti-roll block fits all PowerShore™ extension pipes and struts and prevents them from rolling.	150.113.057	weight: 1.76 lb diameter: 3.5 in	
Field Service Kit	Call	Tools Couplers Kit Includes the Velcro Straps following items in a Spare Parts storage box: Hook Wrench	

POWERSHORE™ KIT COMPOSITION

Basic Vehicle Stabilization Kit

Model	Article No.	Quantity
10" Extension (Blue) - SX 2	150.011.502	2
20" Extension (Yellow) - SX5	150.011.503	2
39" Extension (Green) - SX10	150.011.504	4
FX1 Connector	150.011.505	4
3½" Round Saddle	150.011.509	2
Swivel Head Saddle	150.182.046	2
Round V-Block Saddle	150.011.516	2
Cross Head Saddle	150.011.523	2
Pointed Head Saddle	150.011.524	2
3 Head Support Plate	150.011.519	2
Tensioning Belt Kit	158.011.004	1
Duffle Bag - Large	150.011.006	1
Plastic storage case	158.581.038	1

Kit Number
158.012.031



Basic Structural Collapse - with Air Struts

Model	Article No.	Quantity
22" Strut with Lock Nut - AS 3 L 5 +	150.011.532	2
25" Strut with Quick Lock - AS 3 Q 5 FL	150.011.546	2
Dual Control Air Valve - DCV-10U	358.582.014	1
32' Yellow Air Hose - AH10YU	358.572.006	1
32' Red Air Hose - AH10RU	358.572.009	2
32' Blue Air Hose - AH10BU	358.572.012	2
Plastic storage case	158.581.038	2
5" Extension (White) - SX1	150.011.501	4
10" Extension (Blue) - SX 2	150.011.502	4
20" Extension (Yellow) - SX5	150.011.503	8
39" Extension (Green) - SX10	150.011.504	6
59" Extension (Red) - SX 15	150.011.506	4
FX1 Connector	150.011.505	10
Swivel Head Saddle	150.182.046	2
Tilting Saddle - Aluminum	150.011.048	4
6" Beam Support	150.011.513	4
4" Beam Support	150.011.514	4
L - Support	150.011.520	4
Square V-Block Saddle for Pipes	150.011.522	2
Cone Head Saddle	150.011.517	2
Adjustable Hook Wrench	150.581.689	1
Storage Bag	150.011.006	2
Support Plate	150.011.519	2



Select one of the following low or high pressure kit numbers:

			Kit Number
Regulator for 4,000 psi inlet - PRV120U	350.582.021	1	158.012.036
Regulator for 6,000 psi inlet - HPRV120U	350.582.023	1	158.012.039

Basic Trench Shoring Kit - with Air Struts

Model	Article No.	Quantity
25" Air Strut with Quick Lock - AS 3 Q 5 FL	150.011.546	6
22.6" Air Strut with Lock Nut - AS 3 L 5 +	150.011.532	3
Dual Control Air Valve - DCV-10U	358.582.014	1
32' Yellow Air Hose - AH10YU	358.572.006	1
32' Red Air Hose - AH10RU	358.572.009	2
32' Blue Air Hose - AH10BU	358.572.012	2
Plastic storage case	158.581.038	3
5" Extension (White) - SX1	150.011.501	9
10" Extension (Blue) - SX 2	150.011.502	9
Tilting Saddle - Aluminum	150.011.048	9
6" x 6" Flat Saddle	150.011.541	9
Large Velcro Straps	158.581.021	18
4" Beam Support	150.011.514	9
Square V-Block Saddle for Pipes	150.011.522	2
Adjustable Hook Wrench	150.581.689	2



Select one of the following low or high pressure kit numbers:

Kit Number

Regulator for 4,000 psi inlet - PRV120U	350.582.021	1	158.012.037
Regulator for 6,000 psi inlet - HPRV120U	350.582.023	1	158.012.040

Basic Structural Collapse - with Hydraulic & Mechanical Struts

Model	Article No.	Quantity
22½" Hydraulic Strut with Lock Nut - HS 1 L 5 +	150.011.543	2
9.8" Mechanical Strut MS 2 L 2 +	150.011.538	2
22½" Mechanical Strut with Lock Nut - MS 2 L 5	150.011.533	4
Hydraulic Hand Pump - HTW 700 APS	150.012.504	1
5" Extension (White) - SX1	150.011.501	4
10" Extension (Blue) - SX 2	150.011.502	4
20" Extension (Yellow) - SX5	150.011.503	8
39" Extension (Green) - SX10	150.011.504	6
59" Extension (Red) - SX 15	150.011.506	4
FX1 Connector	150.011.505	10
Swivel Head Saddle	150.182.046	2
3½" Round Saddle	150.011.509	2
Tilting Saddle - Aluminum	150.011.048	2
6" Beam Support	150.011.513	4
4" Beam Support	150.011.514	4
L - Support	150.011.520	4
Square V-Block Saddle for Pipes	150.011.522	2
Storage Box	158.581.038	2
Cone Head Saddle	150.011.517	4
Storage Bag	150.011.006	2
Support Plate	150.011.519	2
Adjustable Hook Wrench	150.581.689	2

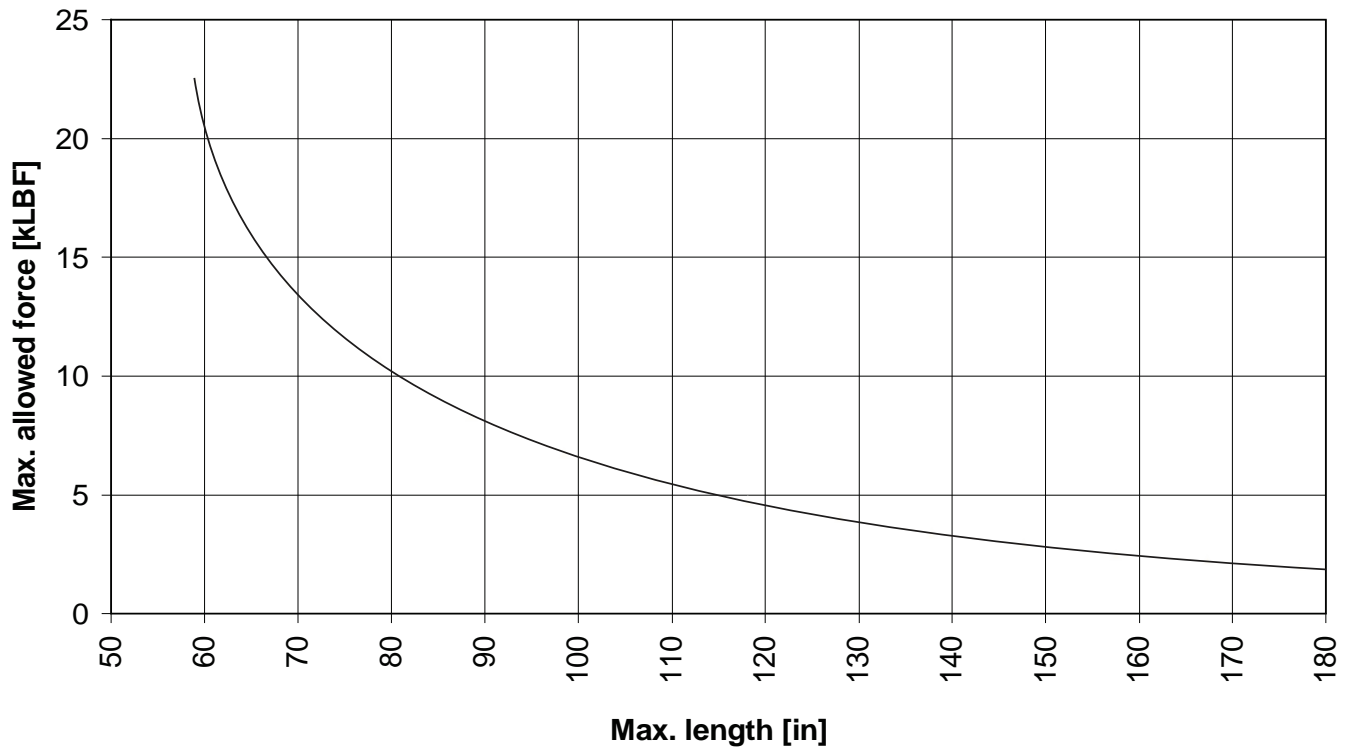
Kit Number

158.012.038



GRAPH MAX. ALLOWED LOAD POWERSHORE™
 Maximum allowed load at a given strut length (4:1 safety ratio)

Max. set length/max. load



Inches	Millimeters	kLBF	Ton	kN
59	1,500	22,481	11.2	100
69	1,750	13,938	7.0	62
79	2,000	10,566	5.3	47
89	2,250	8,318	4.2	37
98	2,500	6,744	3.4	30
108	2,750	5,620	2.8	25
118	3,000	4,721	2.4	21
128	3,250	4,047	2.0	18
138	3,500	3,372	1.7	15
148	3,750	2,923	1.5	13
157	4,000	2,473	1.2	11
167	4,250	2,248	1.1	10
177	4,500	2,023	1.0	9