



SAMSON®

Polyester & Metallic
Slings, Lashings, Strappings &
Material Handling Kits



SAMSON® Polyester Slings

SALIENT FEATURES

POLYESTER ROUND SLINGS

1. Polyester Round Sling is Superior Quality, conforming to BS 6668 PART 2, 1987 material construction of Sling is 100% Polyester Yarn Hank wound continuously together in the form of the Endless Sling. The Safety Factor is 7:1.
2. It is a Double Sleeve Type. The Yarn Hank provides better protection and longer service life with greater resistance to wear and damage, using suitable outer sleeve on the Polyester yarn hank.

POLYESTER WEBBING SLINGS

The Polyester Webbing Slings with reinforced Eyes at both sides are manufactured as per BS 3481 Part 1 & Part 2 1983. The Safety factor is 7:1.

PROPERTIES OF SLINGS

1. It is of low weight, non corrosive, good resistance to heat, excellent electrical insulation properties and good chemical resistance as per specified standard. Working temperature range -40deg.C to +100deg. C.
2. It does not have any Fibre Optic Core. It will not create sparks in explosive or hazardous environments.
3. The maximum Elongation permitted is only 2.5% at WLL.
4. Safety Factor for Sling is minimum 7:1.
5. Each Sling carries a tag indicating Sling no., Type, WLL. Load test date.
6. It is suitable for choked lift (Choker mode) also.

MATERIAL CONSTRUCTION DETAILS

- 100% Polyester Yarn used to manufacture Slings with relative density of 1.38 & melting point 260 Deg. C. The safe working temperature for these slings are (-) 40 deg. C to (+) 100 deg. C. Elasticity is 2.5% elongation at SWL rated capacity & recovery is 95% after 24 hours. Its electrical resistance, in dry state, tends to infinity.
- Thermal, electrical & friction co-efficient are as per International code DIN-EN 1492-Part 2/BS 6668 PART II/BS 3481 Part 1 & Part 2 1983.
- These slings are highly resistant to mild acids, alkalis, alcohol, bleaching agents, dry cleaning solvents, Halogenate Hydrocarbons, Ketones, Crude oil, Soap & detergent.

SAFETY IN LIFTING



Wrong way



Wrong Way



Wrong way



Right Way



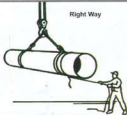
Wrong way



Right Way



Wrong way



Right Way



Wrong way



Right Way

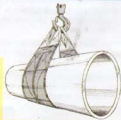
Do's & Don'ts for safe use of flat Web Sling and Round sling and Ratchet of SAMSON BRAND

- 1) Use only identified sling.
- 2) Never use a damaged sling.
- 3) Never make knots in a sling.
- 4) Never drag a slings from underneath a load that is resting on it
- 5) Never use a sling with unprotected sharp edges.
- 6) Always ensure that lifting hooks or devices have smooth edges that will not damage the eyes of the sling.
- 7) If slings are to be used in chemically abnormal atmospheres or in constant high temperature then seek confirmation of advices before use.
- 8) Do not store sling in ultraviolet light OR direct sunlight OR near direct heat.
- 9) Never use a round sling that has a damaged outer sheath.
- 10) Always observe the certified capacity of a sling.
- 11) Always inspect a sling before use.
- 12) When inspecting sling examine the full length for chafe/cuts/seam damage.
- 13) Any sling with cuts at the edge or damaged to stitched seams must be taken out of service immediately.
- 14) Working Temperature range -40°C to +100°C

CODE	Vertical Straight Lift	Colour	Width	Approx Thick (mm)	Choker	Basket	Basket 45°	Basket 90°	Remarks
									
				FACTOR	X0.8	X2	X1.8	X1.4	
GW 1	1,000 kg	VIOLET	25	7	800 kg	2,000 kg	1,800 kg	1,400 kg	Double Ply
GW 2	2,000 kg	GREEN	50	7	1,600 kg	4,000 kg	3,600 kg	2,800 kg	Double Ply
GW 3	3,000 kg	YELLOW	75	7	2,400 kg	6,000 kg	5,400 kg	4,200 kg	Double Ply
GW 4	4,000 kg	GREY	100	7	3,200 kg	8,000 kg	7,200 kg	5,600 kg	Double Ply
GW 5	5,000 kg	RED	125	7	4,000 kg	10,000 kg	9,000 kg	7,000 kg	Double Ply
GW 6	6,000 kg	BROWN	150	7	4,800 kg	12,000 kg	10,800 kg	8,400 kg	Double Ply
GW 8	8,000 kg	BLUE	200	7	6,400 kg	16,000 kg	14,400 kg	11,200 kg	Double Ply
GW 10	10,000 kg	ORANGE	250	7	8,000 kg	20,000 kg	18,000 kg	14,000 kg	Double Ply
GW12	12,000 kg	ORANGE	300	7	9,600 kg	24,000 kg	21,600 kg	16,800 kg	Double Ply
GW 15	15,000 kg	ORANGE	250	10.5	12,000 kg	30,000 kg	27,000 kg	21,000 kg	3 Ply
GW 16	16,000 kg	ORANGE	200	14	12,800 kg	32,000 kg	28,800 kg	22,400 kg	4 Ply
GW 18	18,000 kg	ORANGE	300	10.5	14,400 kg	36,000 kg	32,400 kg	25,200 kg	3 Ply
GW 20	20,000 kg	ORANGE	250	14	16,000 kg	40,000 kg	36,000 kg	28,000 kg	4 Ply
GW 24	24,000 kg	ORANGE	300	14	19,200 kg	48,000 kg	43,200 kg	33,600 kg	4 Ply

Webbing Flat Slings are manufactured as per BS 3481 Part -2 / DIN 61360

HIGH STRENGTH
LOW STRETCH
COLOUR CODED
HARDWEARING
ACID RESISTANT



HOW to ORDER

Endless Flat Slings :

Vertical Capacity in Ton X Circumferential length in Meter or effective length

Slings with Eye Loops (webbing) :

Vertical Capacity in Ton X effective length (Loop to Loop) in Meter

SAMSON® Anti Static Polyester Webbing Sling

The normal Polyester Sling is manufactured by 100% Polyester Yarn only, which is non-conductive against flowing of any type of electricity. But we have manufactured special coated Polyester Anti-static Sling which is having a conductivity property of any type of electricity.

Normal sling does not have current carrying properties. This is our speciality product. Normally this sling is used in very sensitive area like, missiles handling, satellite handling etc. All capacities are available on request.

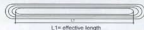
Generally, while lifting any job by Polyester sling, by abrasion, static electricity is formed. Due to non conductivity of polyester sling, it is not discharged to the ground. The Highly sensitive electronic/electrical Instrument is getting damaged. We are manufacturing special sling which is conductive is called **Anti static sling**.

Code	Colour	W.L.L (straight lift) (kg)	Approx thickness (mm)	Approx Width (mm)	Choker 80%	Basket 200%	Basket 140%	Basket 100%
GR 01	VIOLET	1000	6	40	800	2000	2000	1000
GR 02	GREEN	2000	7	50	1600	4000	4000	2000
GR 03	YELLOW	3000	8	60	2400	6000	6000	3000
GR 04	GREY	4000	9	70	3200	8000	8000	4000
GR 05	RED	5000	11	75	4000	10000	10000	5000
GR 06	BROWN	6000	12	80	4800	12000	12000	6000
GR 08	BLUE	8000	13	90	6400	16000	16000	8000
GR 10	ORANGE	10000	15	100	8000	20000	20000	10000
GR 12	ORANGE	12000	16	110	9600	24000	24000	12000
GR 15	ORANGE	15000	18	125	12000	30000	30000	15000
GR 20	ORANGE	20000	20	150	16000	40000	40000	20000
GR 30	ORANGE	30000	32	200	24000	60000	60000	30000
GR 50	ORANGE	50000	45	220	40000	100000	100000	50000
GR 80	ORANGE	80000	70	280	64000	160000	160000	80000
GR 100	ORANGE	100000	80	290	80000	200000	200000	100000

- Higher Capacity Slings are available on request.
- Round Slings are manufactured as per following Standards:
- BS 6668 Part -21987 / DIN 61360 / ISO 4878



Double Layered Round Sling



HOW to ORDER

Endless Slings :

Vertical lifting capacity in Ton. X Circumferential length in meter

or

Vertical lifting capacity in ton x effective length(Half of Circumferential length)



SAMSON® Anti Static Polyester Round Sling

The normal Polyester Sling is manufactured by 100% Polyester Yarn only, which is non-conductive against flowing of any type of electricity. But we have manufactured special coated Polyester Anti-static Sling which is having a conductivity property of any type of electricity.

Normal sling does not have current carrying properties. This is our speciality product. Normally this sling is used in very sensitive area like, missiles handling, satellite, handling etc. All capacities are available on request.

Generally while lifting any job by Polyester sling, by abrasion static electricity is formed due to non conductive of sling. It is not decipated to the ground. The Highly sensitive electronic/electrical Instrument is getting damaged. We are manufacturing special sling which is conductive is called Anti static sling.

Code	Colour	Working Load Limit (kg)	Approx thickness (mm)	Approx Width (mm)	Choker 80%	Basket 200%	Basket 45° 140%	Basket 90° 100%
GPL 01	VIOLET	1000	6	40	800	2000	2000	1000
GPL 02	GREEN	2000	7	50	1600	4000	4000	2000
GPL 03	YELLOW	3000	8	60	2400	6000	6000	3000
GPL 04	GREY	4000	9	70	3200	8000	8000	4000
GPL 05	RED	5000	11	75	4000	10000	10000	5000
GPL 06	BROWN	6000	12	80	4800	12000	12000	6000
GPL 08	BLUE	8000	13	90	6400	16000	16000	8000
GPL 10	ORANGE	10000	15	100	8000	20000	20000	10000
GPL 12	ORANGE	12000	16	110	9600	24000	24000	12000
GPL 15	ORANGE	15000	18	125	12000	30000	30000	15000
GPL 20	ORANGE	20000	20	150	16000	40000	40000	20000
GPL 30	ORANGE	30000	32	200	24000	60000	60000	30000
GPL 50	ORANGE	50000	45	220	40000	100000	100000	50000
GPL 80	ORANGE	80000	70	260	64000	160000	160000	80000
GPL 100	ORANGE	100000	80	290	80000	200000	200000	100000

Advantages of PARALLEL LANE Round Slings over Round Slings

Two individual Round slings are enclosed in a high abrasion resistant cover. This kind of sling ensures additional safety in the case of damage of Sling partly, other part will take the load. Therefore, Parallel Lane sling calls for Double safety.

REPAIR : OUTER COVER can be replaced by a new cover.

OVERLOAD INDICATOR : If Load is more than SWL, it indicates overload.

OPTIC FIBRE : Optic Fibre Cable is used to check the damage of Yarn.

ALL THESE FEATURES ARE AVAILABLE ON PARALLEL LANE SLINGS ONLY

Parallel Lane Slings can be used as a Eye & Eye Slings



Special Purpose Slings (Zola Type)

We are also manufacturing special type of Slings for special applications where diameter of round shaped objects are very large in size, range up to 1200mm wide flat belts are available with us.



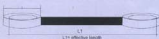
Lowering Belts

For using in Pipeline Projects



Nominal Pipe Size inches	Item Code	Width mm	Length Mtr	Holes per Strip	S.W.L.
12	SAMLB 12	300	1.45	2	12000
18	SAMLB 18	450	2.40	4	20000
24	SAMLB 24	600	2.70	5	25000
30	SAMLB 30	750	3.35	6	32000
36	SAMLB 36	900	3.84	7	38000
42	SAMLB 42	1050	4.21	8	45000

Eye & Eye Round Slings Safety factor 7:1



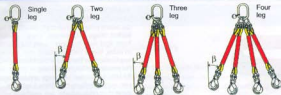
Standard by: EN1492-2
JB/T8521-1997
Material: 100% polyester
Length: as required
Color: as according with international standards



All capacities are available on request

SAMSON® Multileg Slings

Safety factor 5:1



Sling with Polyester/ Forged ring at top & Forged steel D-Shackle & Hook at bottom.

SAMSON® Safe Working Load at various Angles



SAMSON® Anti-Abrasive Sleeve

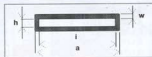


EDGE PROTECTION

Heavy Duty synthetic Anti Abrasive Sleeve enhances life of the sling as a guard against abrasion by rough surface.

SAMSON® Anti-Cutting Sleeve

Polyurethane heavy duty Anti Cutting Sleeve enhances the life of the sling preventing damage to the job and sling from any pointed or major sharp edges.



Polyester Double sided Polyurethane Anti cutting Sleeve

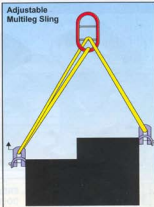


Two Leg Slings of Capacity 70 tonnes supplied to Southern Railway, Madurai

SAMSON® Adjustable Multileg Sling

Samson Adjustable Multileg Sling is the ultimate solution towards lifting of uneven or awkward loads. The special type rings self-adjusts center of gravity to find the lifting point. It facilitates lifts where there are multiple lifting points. It is available in 2 leg / 3 leg & 4 leg.

All capacities are available on request.



ENDLESS TYPE



DOUBLE PART TYPE



• RATCHETS • Ratchet Buckles



Art No.	Breaking Load kg	Width mm	A mm	B mm	C mm	D mm	N.W. kg
R1-01	2000	25	27	130	53	58	0.35
R1-02	3000	35	45	175	75	84	0.75
R1-03	5000	50	53	230	90	101	1.10
R1-04	8000	75	78	300	148	154	3.10
R1-05	12,000	100	150	480	258	285	9.50

SAMSON Ratchet / Cargo Lashings are basically to secure loads on pallets, vehicles, on board ships and aircraft. SAMSON has the widest range of Lashings / Cargo available from light duty to super heavy duty lashing. In India, these lashings have also found an application in the power transformer industry for winding of large coils etc.

SAMSON Ratchet Lashings are available in two configurations : Endless Lashings system configurations are available with a large Variety of end - fittings and widely used in military and transport applications.



Cam Buckles



CB002-03
1" Cam Buckles
500kg Breaking Strength



CB002-02
1.5" Cam Buckles
700kg Breaking Strength



CB001-02
2" Cam Buckles
1200kg Breaking Strength



HOW TO ORDER

ENDLESS : WIDTH X LENGTH

DOUBLE PART : WIDTH X FIXED LENGTH WITH HOOK X VARIABLE LENGTH WITH HOOK (WIED!)

SAMSON® Plate Lifting Clamps

VERTICAL STEEL PLATE LIFTING CLAMP

- Application : lifting and transporting steel plate vertically
 - Range of working load : 1-16 T
 - One clamp is used in the tests but in real cases two or more clamps are recommended.
 - Only one layer of plate being lifted each time, lifting more than one layer of plate is prohibited. The steel plate being lifted shall be kept away from crashing on any other objects. When lifting the steel plate, the handle must be turned up and turned down when unloading.
- The tested loads of DSQ 1, DSQ2, DSQ3, & DSQ5 are all 2 times of working load limit, the minimum breaking load is 4 times of the working load limit.
- The tested loads of DSQ8, DSQ12, DSQ16 are 1.5 times of the working load limit, the minimum breaking load is 3 times of the working load limit.



Art	WELL t	Thickness mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Jaw open mm	NW kg/pc
DSQ1	1	0-16	59	12	16	45	30	120	72	270	155	50	3.5
DSQ2	2	0-22	61	16	23	55	45	165	90	340	190	55	6.3
DSQ3	3	5-30	72	16	28	60	55	195	110	374	227	370	10.5
DSQ5	5	16-55	82	20	33	70	70	250	135	458	275	90	19.3
DSQ8	8	40-80	100	25	40	80	80	345	175	565	370	130	40
DSQ12	12	50-90	107	28	45	90	105	430	182	635	380	150	52
DSQ16	16	60-100	107	41	50	100	115	455	200	650	410	160	55



HORIZONTAL STEEL PLATE LIFTING CLAMP

- This clamp is designed to lift and transport steel plate horizontally
 - Range of working load : 2-10T
 - Two clamp are used in the tests, but in real case four clamp are recommended. The levering beam is needed when the steel plate is too long
 - Tested loading is 2 times the Working Load Limit
- Minimum breaking Load is 4 times the Working Load Limit.



Art. No	WLL t/2	Plate thickness mm	A mm	B mm	C mm	D mm	N.W kg
DHQ2	2	0-20	127	154	58	29	2.6
DHQ3	3	0-30	152	187	64	31	4.0
DHQ5	5	20-60	220	289	70	54	7.8
DHQ8	8	50-100	276	369	86	59	15.7
DHQ10	10	60-125	310	432	86	61	19.5



MULTI-LAYERED STEEL PLATE LIFTING CLAMP

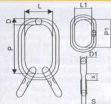
- This clamp is used in loading multi-layered steel plate simultaneously.
- Range of loading limit: 3-15 T
- Two clamps are used in the tests, but in real cases four clamps are recommended.
- The tongue of the clamp can be adjusted according to the thickness of the plate and the levering beam is needed when operating. The steel plate being lifted shall be kept away from crashing on any other objects.
- The tested load is 2 times of the working load limit, the minimum breaking load is 4 times of the working load limit.



SAMSON® Rings

- Master Link assembly
- Material : Forged alloy steel
- Special heat treatment

Chain	Code	D	P	L	D1	P1	L1	SxX	Weight	WLL
6	ACH6	19	135	75	13	60	38	8x25	1.315	2360
7	ACH7	19	135	75	13	60	38	8x25	1.315	3150
8	ACH8	23	160	90	16	70	34	8x25	2.32	4250
10	ACH10	27	180	100	18	85	40	11.5x35	3.52	6700
13	ACH13	33	200	110	23	115	50	14x35	6.26	11200
16	ACH16	36	260	140	27	140	65	18x46	9.56	17000
18	ACH18	45	340	180	33	150	70	—	18.92	21000
20	ACH20	50	350	190	33	150	70	—	22.65	26500
22	ACH22	50	350	190	36	170	75	—	25.19	31000
26	ACH26	60	400	200	40	170	80	—	36.01	45000
32	ACH32	70	460	250	50	200	100	—	64.4	67000



SAMSON® Master Link Forged Round Ring



Art. No	WLL (T)	D (mm)	Self weight (kg)
YH2	2	100	20
YH3	3	100	24
YH5	5	150	28
YH8	8	175	33
YH10	10	225	38
YH16	16	225	45
YH20	20	250	52
YH25	25	315	58

Size	WLL(T)	Self weight (kg)	d(mm)	D(mm)
7/8	3.27	1.23	22.2	102
7/8x5 1/2	2.54	1.57	22.2	140
1x4	4.9	1.67	25.4	102
11/8x6	4.72	2.99	28.6	152
11/4x5	7.71	3.09	31.8	127
13/8x6	8.62	4.59	34.9	152

SAMSON® Hooks

- HOOKS
- We apply the alloy moulds and forge.
- We apply the special heat treatment to achieve a high tension shackle.

WELL(T)							A(mm)		Soil weight(kg)
S6	T8	L(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F	G	
0.75	1	85	16	19	19	9	24.5	23	0.28
1	1.5	96.5	18	21	23	10.5	26	23	0.41
1.5	2	108	22	25.5	29	12.5	29	25.5	0.67
2	3	123	24	29	32	14.5	31	28	0.95
3	5	150	33	36.5	40	18	34.5	38	1.99
5	7	190	42	46	51	23	46.5	41	3.81
7.5	11	232.5	48	57	62	28	56.5	53	6.85
10	15	259.5	56	66	72	32.5	63	58	9.82



SAMSON® Turn Buckle

- Material : Forged alloy steel
- Special heat treatment



W.L.L	ROPE Dia(mm)	THREAD DIA	L	L1	L2
1000	6.5	M6	100	164	242
2000	8.0	M8	125	199	291
3000	9.5	M10	150	246	358
4300	11.5	M12	200	314	456
8000	15.0	M16	250	386	582
13000	19.0	M20	300	470	690
17000	21.5	M22	350	540	806
19000	22.5	M24	400	610	922
24000	28.0	M27	450	680	1030
30000	31.0	M30	450	700	1050
38000	34.0	M33	500	770	1158
45000	37.0	M36	550	840	1270



W.L.L	ROPE Dia(mm)	THREAD DIA	L	L1	L2
700	2.2	M6	100	180	258
1000	3.3	M8	125	225	317
2300	4.5	M10	150	266	378
3200	5.5	M12	200	334	476
6300	8.5	M16	250	442	638
9800	9.5	M20	300	520	740

SAMSON® Connecting Link

- Master Link
- Adopt the alloy steel mould to forge
- Adopt the Special heat treatment craft to heat treat



Size		Self weight(kg)	WLL(T)	Dimensions					
In	mm			A	B	C	D	E	F
9/32(41)	7	0.13	1.5	8.4	47.8	47	19.8	16	142
5/16	8	0.15	2	9.15	55.4	50	23.1	16.8	16
3/8	10	0.34	3.15	11.4	64.3	63.5	26.2	21.6	19.1
1/2	13	0.75	5.3	16.3	87.4	81.8	36.6	27.7	23.9
5/8	16	1.3	8	19.1	105	96	43.9	35.1	28.7
3/4	20	2.26	11.2	23.6	126	118	53.1	40.4	32.5
7/8	22	3.41	15	26.9	140	143	58.7	50	36.6
1	25	5	21.2	31	152	157	63.5	56.4	47.8
1-1/4	32	9.25	31.5	38.1	189	194	78.5	64.3	55.6

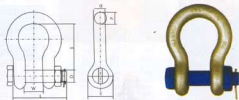
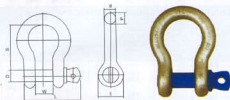
SAMSON® D- Shackle & Bow-Shackle HIGH - TENSION SHACKLES

BOW SHACKLE WITH SCREW PIN

Art. No.	WLL T	W mm	D mm	d mm	E mm	P mm	S mm	L mm	Self Weight kg
S-BX0 5-1/4	0.5	12	8	6.5	15.5	—	22	37	0.05
S-BX0 75-5/16	0.75	13.5	10	8	19	—	26	45	0.10
S-BX0 1-3/8	1	17	12	9.5	23	—	32	54	0.15
S-BX0 1.5-7/16	1.5	19	14	11	27	—	36.5	62	0.22
S-BX0 2	2	20.5	16	13	30	—	41.5	71.5	0.36
S-BX0 3.25-5/8	3.25	27	20	16	38	—	51	89	0.76
S-BX0 4.75-3/4	4.75	32	22	19	46	20.5	60.5	105	1.23
S-BX0 6.5-7/8	6.5	36.5	27	22.5	53	24.5	71.5	121	1.79
S-BX0 8.5-1	8.5	43	30	25.5	60.5	—	81	136.5	2.57
S-BX0 9.5-1 1/8	9.5	46	33	29	68.5	32	91	149.5	3.75
S-BX12-1 1/4	12	51.5	36	32	76	35	100	164.5	5.31
S-BX17-1 1/2 3/8	13.5	57	39	35	84	38	111	179	7.18
S-BX17-1 1/2	17	60.5	42	38	92	41	122	194.5	9.43
S-BX25-1 3/4	25	73	52	44.5	106.5	54	146	234	15.4
S-BX35-2	35	82.5	58	51	122	—	171.5	262.5	23.7
S-BX35-2 1/2	55	105	70	66.5	144.5	—	203	339	44.6
S-BX35-3	85	127	85	76	165	89	216	394	70
S-BX120-3 1/2	120	133.5	95	92	203	104	371.4	444	121.1
S-BX150-4	150	140	110	104	228.5	116	368	489	165.9
S-BX300-6	300	200	150	130	320	—	450	644	363
S-BX500	500	240	185	165	390	—	557.5	779	684
S-BX800	800	300	234	207	493	—	660	952	1313
S-BX1000	1000	390	265	240	556	—	780.5	1136	2024

BX BOW SHACKLE BOLT TYPE

Art. No.	WLL mm	W mm	D mm	d mm	e mm	p mm	S mm	L mm	Self weight Kg
S-Bwo 5-1/4	0.5	12	8	6.5	15.5	—	29	36.5	0.05
S-Bwo 75-5/16	0.75	13.5	10	8	19	—	31	44.5	0.1
S-Bw1 3/8	1	17	12	9.5	23	—	36.5	52.5	0.13
S-Bw1.5-7/16	1.5	19	14	11	27	—	43	62	0.21
S-Bw2 1/2	2	20.5	16	13	30	—	48	70.5	0.3
S-Bw3.25-5/8	3.25	27	20	16	38	17.5	60.5	88	0.64
S-Bw4.75-3/4	4.75	32	22	19	46	20.5	71.5	102.5	1.09
S-Bw5.5-7/8	6.5	36.5	27	22.5	53	24.5	84	121	1.7
S-Bw6.5-1 1/8	9.5	43	30	25.5	60.5	—	27	95	13.9
S-Bw6.5-1 1/5	9.5	46	33	29.5	68.5	32	108	154	3.79
S-Bw12-1 1/4	12	51.5	36	33	76	35	119	170.5	4.89
S-Bw13.5-1 1/4 3/8	13.5	57	39	36	84	38	133.5	186.5	7.04
S-Bw17-1 1/2 17	16.5	62	42	39	92	—	141	201	8.35
S-Bw25-1 3/4	25	73	52	47	106.5	57	178	244	13.72
S-Bw35-2	35	82.5	58	53	122	61	197	275	20.33
S-Bw55-2 1/2	55	105	70	69	144.5	79.5	267	346	40.92

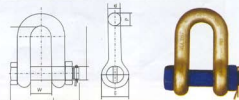
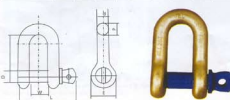


DW D SHACKLE WITH SCREW PIN

Art. No.	WLL mm	W mm	D mm	d mm	E mm	P mm	S mm	L mm	Self weight Kg
S-Bwo 5-1/4	0.5	12	8	6.5	15.5	—	22	36.5	0.04
S-Bwo 75-5/16	0.75	13.5	10	8	19	—	26	44.5	0.08
S-Bw1 3/8	1	17	12	9.5	23	—	32	52.5	0.13
S-Bw2 1/2	1.5	19	14	11	27	—	36.5	62	0.2
S-Bw3.25-5/8	2	20.5	16	13	30	—	41.5	70.5	0.27
S-Bw4.75-3/4	3.25	27	20	16	38	—	51	88	0.57
S-Bw5.5-7/8	4.75	32	22	19	46	20.5	60.5	102.5	0.99
S-Bw6.5-1 1/8	6.5	36.5	27	22.5	53	24.5	71.5	115	1.57
S-Bw6.5-1 1/5	8.5	43	30	25.5	60.5	—	81	139	2.3
S-Bw9.5-1 1/5	9.5	46	33	29	68.5	32	91	153	3.42
S-Bw12-1 1/4	12	51.5	36	32	76	35	100	168.5	4.48
S-Bw13.5-1 1/4 3/8	13.5	57	39	35	84	38	111	184.5	6.46
S-Bw17-1 1/2 17	17	60.5	42	38	92	41	122	199	7.65
S-Bw25-1 3/4	25	73	52	44.5	106.5	54	146	237	12.48
S-Bw35-2	35	82.5	58	51	122	—	171.5	271	18.63
S-Bw55-2 1/2	55	105	70	66.5	144.5	—	203	341	36.02

DX D SHACKLE BOLT TYPE

Art. No.	WLL T	W mm	D mm	d mm	E mm	P mm	S mm	L mm	Self Weight Kg
S-BX0 5-1/4	0.5	12	8	6.5	15.5	—	22	37	0.06
S-BX0 75-5/16	0.75	13.5	10	8	19	—	26	45	0.1
S-BX0 1-3/8	1	17	12	9.5	23	—	32	54	0.15
S-BX0 1.5-7/16	1.5	19	14	11	27	—	36.5	62	0.22
S-BX0 2-1/2	2	20.5	16	13	30	—	41.5	71.5	0.34
S-BX0 3.25-5/8	3.25	27	20	16	38	—	51	89	0.67
S-BX0 4.75-3/4	4.75	32	22	19	46	20.5	60.5	105	1.14
S-BX0 6.5-7/8	6.5	36.5	27	22.5	53	24.5	71.5	121	1.76
S-BX0 8.5-1	8.5	43	30	25.5	60.5	—	81	136.5	2.55
S-BX0 9.5-1 1/8	9.5	46	33	29	68.5	32	91	149.5	3.45
S-BX12-1 1/4	12	51.5	36	32	76	35	100	164.5	5.06
S-BX13.5-1 1/4 3/8	13.5	57	39	35	84	38	111	179	7.29
S-BX17-1 1/2	17	60.5	42	38	92	41	122	194.5	8.75
S-BX25-1 3/4	25	73	52	44.5	106.5	54	146	234	14.22
S-BX35-2	35	82.5	58	51	122	—	171.5	262.5	21
S-BX35-2 1/2	55	105	70	66.5	144.5	66.5	203	339	42.12
S-BX35-3	85	127	85	76	165	89	216	394	65.3
S-BX120-3 1/2	120	133.5	95	92	203	104.5	371.5	444	121.1
S-BX150-4	150	140	110	104	228.5	116	368	489	165.9
S-BX300-6	300	200	150	130	320	—	380	644	341
S-BX500	500	240	185	165	390	—	450.5	779	634
S-BX800	800	300	234	207	493	—	550	952	1228
S-BX1000	1000	390	265	240	556	—	640.5	1138	1308

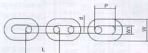


SAMSON® Chain slings



- **Grade 8 Chains**
- Breaking strength of Grade 8 chain >800 MPa;
- Chain use JB/8108.1-1999 regulations; .
- Alloy steel with heat treatment, Elongation> 17%.

SAMSON® Lifting Chains



SHORT LINK CHAIN FOR HOISTS (HAND- ELECTRIC-PNEUMATIC)									
MATERIAL SIZE	GR 109 15-6216 1982 CALIBRATED	GR 5/6 15-6217 1982 NON- CALIBRATED	GR M4 15-3109 1982 CALIBRATED	GR L3 15-6217 1982 NON- CALIBRATED	APPROX WEIGHT KG/MTR	GRADE U1		GRADE U2	
	SWL M.TON	SWL M.TON	SWL M.TON	SWL M.TON		PROOF LOAD	BREAK LOAD	PROOF LOAD	BREAK LOAD
DLA MM						M.TON	M.TON	M.TON	M.TON
5	0.80	0.63	-	-	0.55	-	-	-	-
6	1.10	0.90	0.57	0.44	0.85	0.68	1.36	0.95	1.96
6.3	1.3	1.0	0.65	0.50	0.95	-	-	-	-
7.00	-	-	-	-	1.05	0.92	1.84	1.3	2.6
7.1	1.60	1.25	0.8	0.63	1.15	-	-	-	-
8.00	2.00	1.60	1.00	0.80	1.45	1.20	2.40	1.7	3.4
9.0	2.50	2.00	1.25	1.00	1.85	1.53	3.06	2.15	4.30
10	3.20	2.50	1.60	1.25	2.25	1.88	3.76	2.65	5.30
11	3.80	3.00	1.90	1.50	2.65	2.25	4.50	3.15	6.30
11.2	4.00	3.20	2.00	1.60	2.80	-	-	-	-
12	4.60	3.60	2.30	1.80	3.25	-	-	-	-
12.5	5.00	4.00	2.50	2.00	3.50	2.95	5.90	4.15	8.30
14	6.30	5.00	3.20	2.50	4.75	3.65	7.30	5.20	10.40
16	8.00	6.30	4.00	3.20	5.70	4.80	9.60	6.75	13.50
17.5	-	-	-	-	7.00	5.77	11.50	8.12	16.25
18	10.00	8.00	5.00	4.00	8.00	-	-	-	-
19.0	-	-	-	-	8.80	6.80	13.60	9.56	19.10
20	12.50	10.00	6.30	5.00	9.10	-	-	-	-
20.5	-	-	-	-	9.15	7.92	15.80	11.15	22.30
22.0	16.00	12.50	8.00	6.00	11.85	9.10	18.20	12.80	25.60
22.4	6.30	-	-	-	11.75	-	-	-	-
24.0	-	-	-	-	12.6	10.90	21.70	15.30	30.50
25	20.00	16.00	10.00	8.00	13.50	-	-	-	-

SAMSON® Chains



- Pressed steel wire rope slings,
- Pressed steel-twisted wire rope slings,
- Spliced steel wire rope slings,
- Cast slings bind slings non-tie steel wire rope slings.
- Range-6mm to 52mm Diameter



6 x 19 I.W.R.C.



6 x 19 F.C.



6 x 36 I.W.R.C.



6 x 36 F.C.



6 x 37 I.W.R.C.



6 x 37 F.C.

Nom.	MASS 6X19 &		6 X 19 (12/6/1) IS:2268/89		6X37(18/12/6/1) IS:2268/89				MASS 6X19 56X19F		6X36(14/7/7/7/1) 6X41(16/8/8/8/1) IS:2268/89				MASS 17X7&18X7	
	Kg /100Mtrs FMC IWRC		1570N/MM2 FMC IWRC	1770N/MM2 FMC IWRC	1570N/MM2 FMC IWRC	1770N/MM2 FMC IWRC			Kg /100Mtrs FMC IWRC		1570N/MM2 FMC IWRC	1770N/MM2 FMC IWRC			Kg /100Mtrs FMC IWRC	
5	8.85	9.52	-	13.6	14.7	-	-	-	-	-	-	-	-	-	-	-
6	12.5	13.7	-	-	20	21	18.8	20	21	23	-	-	-	-	-	-
8	22.1	24.4	31	33	35	37.8	30	32	33	36	24.3	26	-	-	24.5	25.7
9	28.0	30.8	39	42	44	47.5	37	40	42	46	30.8	33	42	45	51	31.0
10	34.6	38.1	48	52	54	58.3	46	50	52	56	38.0	41	52	56	63	38.3
11	41.9	46.1	58	63	66	71.3	56	60	63	68	46.0	50	63	68	71	46.3
12	49.8	54.8	69	75	78	84.2	67	72	75	81	54.7	60	75	81	84	55.1
13	58.5	64.4	82	88	92	99.4	78	84	88	95	64.3	70	88	97	99	64.7
14	67.6	74.6	95	102	107	116	91	98	102	110	74.5	82	102	112	114	75.0
15	77.8	85.8	110	117	122	132	104	112	117	127	85.5	94	117	128	131	86.0
16	88.6	97.4	124	133	139	150	118	128	134	144	97.3	107	133	143	149	98.0
17	100	110	139	151	157	170	134	144	151	163	110	121	150	162	168	111
18	112	123	156	168	176	190	150	162	169	183	123	139	168	181	189	124
19	125	13	174	188	196	212	167	180	188	203	137	151	187	202	211	138
20	138	152	193	208	218	235	185	200	209	225	152	167	207	224	234	153
22	167	184	234	252	263	284	224	242	253	273	184	202	251	271	283	185
24	199	219	278	300	313	338	267	288	301	325	219	241	298	322	336	220
25	216	238	302	326	340	367	289	312	326	352	238	261	324	350	365	239
26	234	257	326	352	368	397	313	338	355	381	257	283	350	378	395	259
28	271	298	378	409	426	461	363	392	409	442	298	328	406	439	458	300
29	291	320	406	438	458	494	389	420	439	474	320	352	436	471	491	322
30	312	343	434	469	490	529	417	450	470	507	342	376	466	504	526	344
32	354	390	494	534	557	602	474	512	534	577	389	428	530	573	598	392
34	400	440	558	602	629	679	535	578	603	651	440	484	599	647	675	442
35	424	466	591	638	666	719	567	612	639	690	466	512	635	685	715	469
36	448	493	625	675	705	761	600	648	676	730	493	542	671	725	757	496
38	500	550	697	752	786	848	669	721	754	813	549	604	748	808	843	552
40	554	609	772	834	870	940	741	800	835	902	608	669	829	895	934	612
42	611	672	881	919	959	1036	817	882	920	994	670	738	914	987	1030	675
44	670	737	934	1009	1053	1137	897	968	1010	1091	736	810	1003	1083	1130	741
46	733	805	1021	1103	1151	1243	980	1058	1104	1192	805	886	1096	1184	1235	809
48	798	877	1112	1201	12553	1353	1068	1152	1202	1298	876	964	1194	1289	1345	881
50	865	951	1206	1303	1360	1468	1158	1250	1304	1409	950	1046	1205	1309	1459	956
52	936	1029	1305	1409	1471	1588	1253	1352	1411	1524	1028	1131	1401	1513	1578	1034



WIRE ROPE LAY



Right Hand Ordinary Lay

Left Hand Ordinary Lay



Right Hand Langs Lay

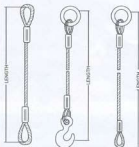
Left Hand Langs Lay

What is a wire rope...consists of a number of wire strands formed helically about a central axis in some cases, a single is rope.

Note :

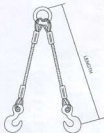
- (1) mass of rope in Kg/100 mtrs. shown above is approximate.
- (2) Sizes 15, 17, 21, 23, 25, 27, 29, 30, 31, 33, 35, 38 & 42 mm are not covered in IS specification.
- (3) The Breaking load figures shown above are in Kilo Newtons. To obtain values in Metric Tonne. Multiply the figures shown above by 0.1020

$$\text{Maximum Safe Working Load} = \frac{\text{Breaking Load of Rope}}{6} = \text{For Industrial}$$

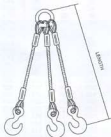


SAMSON® Multileg Wire Rope Slings

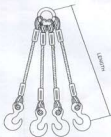
Wire Rope Sling IS 2760/80 Mechanical Splicing IS 5245/71(Pt11)



TWO LEG WIRE ROPE SLING
with main ring at one end
hooks at other ends



THREE LEG WIRE ROPE SLING
with main ring at one end
hooks at other ends



FOUR LEG WIRE ROPE SLING
with main ring & sub ring at one end
hooks at other ends

Permissible Working Load in kg for Multiple Leg Rope Slings

Rope Dia. (mm)	At 0°			At 90°	
	Single Leg	Double Leg	Triple & Four Leg	Double Leg	Triple & Four Leg
3	70	140	210	98	147
4	130	260	390	162	275
5	200	400	600	280	420
6	250	500	750	350	525
8	550	1100	1650	770	1155
9	670	1340	2010	938	1407
10	800	1600	2400	1120	1680
11	1000	2000	3000	1400	2100
12	1200	2400	3600	1680	2520
13	1400	2800	4200	1960	2940
14	1750	3500	5250	2450	3675
16	2000	4000	6000	2800	4200
18	2500	5000	7500	3500	5250
19	3000	6000	9000	4200	6300
20	3400	6800	10200	4760	7140
22	4000	8000	12000	5600	8400
24	4600	9200	13800	6440	9660
25	5000	10000	15000	7000	10500
29	6500	13000	19500	9100	0000
32	8000	16000	24000	11200	16800
35	9200	18400	27600	12880	19320
36	10400	20800	31200	14560	21840
38	12000	24000	36000	16800	25200
40	12700	25400	38100	17780	26670
44	16700	33400	50100	23380	35070
48	2000	40000	60000	28000	42000
52	23000	46000	69000	32200	48300



SAMSON® Crane Working Scale

Model No.	: GFIS.2	GFIS.5	GFIS-10	GFIS-20
Safe Working Load (in Tonnes)	: 2	5	10	20
Resolution (in kgs)	: 1	5	10	10
Safe Maximum Load	: 150% of SWL			
Proof Load	: 200% of SWL			
Hook	: As per IS 3815			
Display	: 5 Digit 50mm - LCD / LED Display			
Over load Indication	: Display Indication "O-Ld"			
Power source	: 6 Volt, 4.2 AH Rechargeable Sealed Lead acid accumulator - 1 No./ 12v, 7AH for LED			
Duration of Display	: 60 secs. approximately (after the reading has stabilised)			
Low Battery Indication	: LCD /LED Display indication "L - bat"			
Negative display indication	: Green - Red LED indication to monitor battery condition on front panel			
Charging Time	: Display indication " - "			
Operating Temperature	: 10 Hours			
Storage Temperature	: 5 C to 45 C (LCD) / 5 C to 55 C (LED)			
Protection Class	: 5 C to 50 C (LCD) / 0 C to 65 C (LED)			
Paint	: IP - 54			
REMOTE CONTROL MODULE	: Anti-corrosive, yellow paint for casing			
Transmission	: Infra Red			
Range	: 10 Meters			
Power	: 3V Battery (1.5 V x 2 nOs. Size ; AA)			



CAPACITY (T)	H (MM)	W (MM)
2T/5T	660	310
10T	846	340
20T	1112	340

Note : Custom built Crane Scale for special applications. Due to continuous up-gradation specifications are subject to change to without notice. Higher Capacity scales are available on request.

SAMSON® Heavy Duty Chain Pulley Block & Snatch Block



SINGLE



DOUBLE



TREBLE

Full Body Safety Harness



- Specifications:**
- Webbing :** Polyamid, 50mm wide
 - Rope :** Polyamid, thickness 12mm, length 110cm
 - Fittings :** Hardsteel, thickness 8mm
 - Hook :** Safetyhook, with springlock

Safetybelts & safetyharness are adjustable to fit all sizes and are reinforced at the waist giving further comfort.

Safety Belt



- Specifications:**
- Webbing :** Polyester, 100mm & 50mm wide
 - Rope :** Polypropylene, thickness 15mm, length 115cm
 - Fittings :** Hardsteel, thickness 5mm
 - Hook :** Safetyhook, with screwlock

Test : • Belts and Harness are tested and authorised by
• Dutch labour law inspection
Periodic testing with 100kg model according to DIN 7478



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