SIMPLEX®

Mechanical Lifting and Positioning Equipment

MC01EN

With well over a century of experience and expertise, the "Simplex Mechanical Product Line" delivers the quality and precision to safely and efficiently get the job done.

Simplex first introduced its ratchet jack in 1899. Since then, *Simplex* continues to lead the mechanical jack market, providing the most versatile jacks in the industry and receiving many patents and awards for technological advancements.

Select from a wide range of specialty and general use Mechanical Products that offer superior design and construction, providing safe and efficient lifting, lowering, positioning, and leveling. These highly engineered products require minimal user effort by maximizing *Simplex's* proven unique mechanical design advantages.

Ergonomically designed, *Simplex* Mechanical Products are easy to transport and can be positioned for a myriad of applications such as construction, mining, shipbuilding, bridgework, maintenance, oil fields or any other industry requiring versatility and reliability, time after time.

Methods of Mechanical Force

Rack & Pawl Design
Ratcheting mechanism used to create leverage for movement.

Threaded Screw Design
Mechanical advantage is gained by using a specialized Acme threaded screw.

Rack & Pinion Design
A set of gears that convert rotational motion into linear motion.

MECHANICAL JACKS

Content

** All Ton values are metric tonnes.*

RATCHET JACKS

RJ Series 4,5 - 18,1 Tonnes

Models: RJ84A, RJ85A, RJ1017 & RJ86A

A Model RJA1022 is used to lift an on-site rock crusher for maintenance. Its large lifting and holding capacity, low toe height and heavy-duty housing, makes the RJ Series Jacks universal tools on any jobsite.

FEATURES

- ✔ **Multiple-tooth pawls for strength & safety.**
- ✔ **Large base ensures a firm foundation.**
- ✔ **Supports full rated capacity on the toe or the cap.**
- ✔ **Drop-forged, alloy steel, heat-treated components.**
- ✔ **Plated springs to resist corrosion.**
- ✔ **Double-lever sockets for jacking in close quarters.**

RJA1022

RJ22B

RJ24A

RJ2029

LIGHTWEIGHT RATCHET JACKS
Lightweight aluminium models are silver in color and offer a 30% reduction in weight.

The RJA1538 jack is designed for pole pulling applications. Chain and I-Beam are ordered separately.

RJA1538
Pole Jack

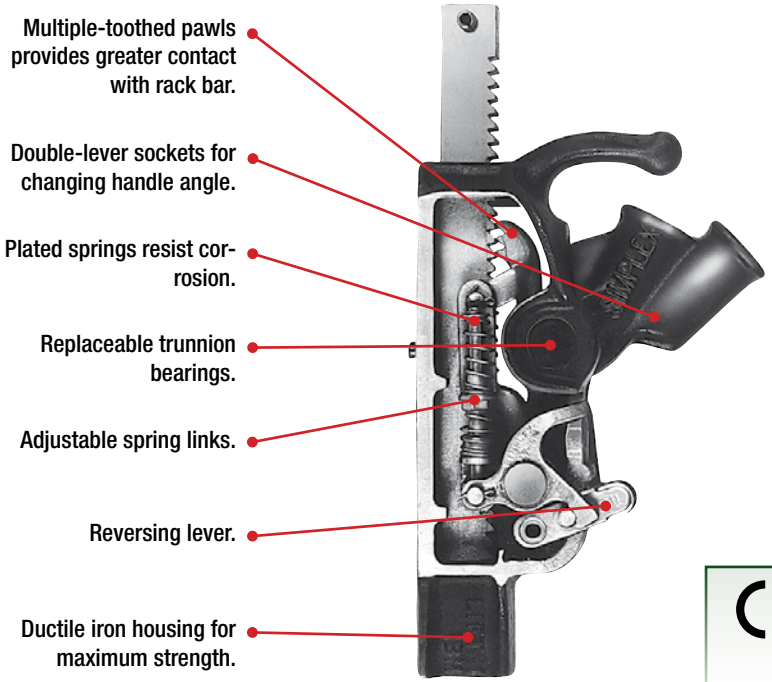
CHA1538
Alloy Chain

IB1538
I-Beam

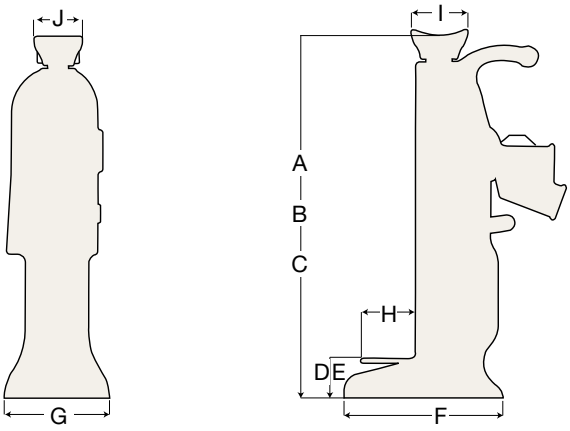
Model	Jack Housing Material	Support Capacity (tonnes)	Lifting Capacity (tonnes)	Handle Effort per Tonne (N)
RJ84A	Steel	4,5	4,5	44
RJ85A				44
RJ86A				44
RJ1017		9,1	9,1	54
RJ22B				30
RJ24A		18,1	13,6	44
RJ2029				36
RJA1022	Aluminium	9,1	9,1	40
RJA1538		13,6	7,3	57

RATCHET JACKS

RJ Series 4,5 - 18,1 Tonnes



CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

Model	Tonnes		Length (mm)	Diameter (mm)
	Support	Lift		
SLB36	4,5	4,5	914	25
SLB60	9,1	9,1	1524	32
SLB70	13,6	7,3	1829	32
SLB70	18,1	13,6	1829	32

Dimensions (mm)										Weight	*Model*
A	B	C	D	E	F	G	H	I	J		
Minimum Height	Maximum Height	Stroke	Toe Minimum Height	Toe Maximum Height	Base Length	Base Width	Toe Length	Cap Length	Cap Width	(kg)	
356	533	178	45	223	187	127	64	67	59	13	*RJ84A*
432	685	254	45	299	187	127	64	67	59	14	*RJ85A*
508	838	330	45	375	187	127	64	67	59	16	*RJ86A*
439	679	241	42	283	222	152	61	73	67	18	*RJ1017*
550	854	305	51	356	260	165	61	76	64	32	*RJ22B*
591	914	324	58	381	260	203	67	89	73	42	*RJ24A*
712	1168	457	58	514	279	203	67	89	73	47	*RJ2029*
550	854	305	51	356	260	165	61	76	64	19	*RJA1022*
956	1502	540	---	546	207	210	---	---	---	28	*RJA1538*

REEL JACKS

CR, CRA Series 4,5 - 18,1 Tonnes

Models: CR321B

The CRA1029R and CRA1029L Reel Jacks can easily handle large reels. The large wooden bases and low handle efforts enhance safety and reduce operator fatigue.

FEATURES

- ✔ **Multiple-tooth pawls for strength & safety.**
- ✔ **Tough hardwood bases laminated for extra strength.**
- ✔ **Drop-forged, alloy steel, heat-treated components.**
- ✔ **Plated springs to resist corrosion.**
- ✔ **Double-lever sockets for jacking in close quarters.**

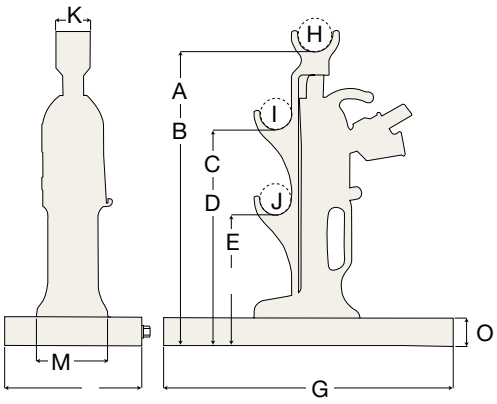
CR320B

CRA1029R

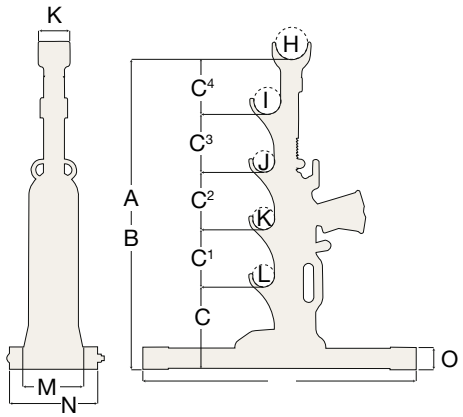
CARRYING HANDLE
Center mounted carrying handle makes these jacks easy to position and transport.

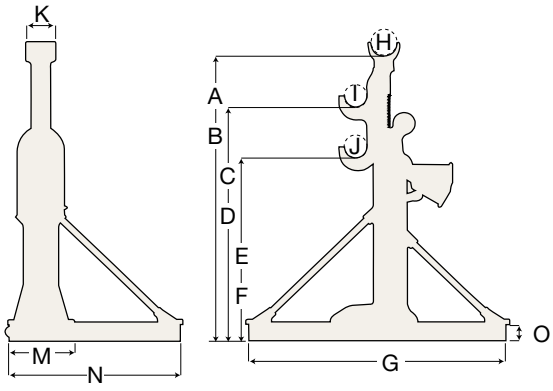
Model	Capacity / Pair		Handle Effort per Tonnes	Stroke	Dimensions (mm)						
					A	B	C	C 1	C 2	C 3	C 4
	Side Hooks (tonnes)	Top Hooks (tonnes)	(N)	(mm)	Minimum	Maximum	Minimum				
CR320B	4,5	9,1	142	241	528	768	387	---	---	---	---
CR321B	9,1	18,1	134	356	877	1232	235	397	559	721	883
CRA1029R			134	295	791	1086	632	---	---	---	---
CRA1029L			134	295	791	1086	632	---	---	---	---

CR320B



CR321B





WARNING
Please follow all recommended safety precautions to avoid personal injury or damage to the unit.

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.

RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

Model	Tonnes		Length	Diameter
	Side Hooks	Top Hooks	(mm)	(mm)
SLB36	4,5	9,1	914	25
SLB60	9,1	18,1	1524	32

Dimensions (mm)												Weight	Model
D	E	F	G	H	I	J	K	L	M	N	O		
Maximum	Maximum	Maximum	Length	Diameter	Diameter	Diameter	Diameter	Diameter	Length	Width	Height	(kg)	
629	234	476	518	67	57	57	---	---	127	238	57	23	*CR320B*
---	---	---	771	79	76	61	61	61	151	248	51	58	*CR321B*
927	479	774	762	79	67	67	---	---	191	508	57	39	*CRA1029R*
927	479	774	762	79	67	67	---	---	191	508	57	39	*CRA1029L*

RACK JACKS

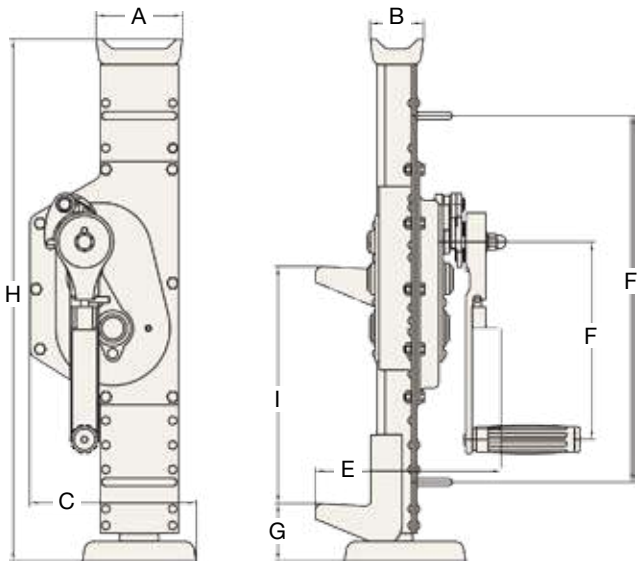
CJ Series 1,5 - 10,1 Tonnes

Models: CJ15 & CJ100

Here a CJ100 is used to position this cargo container for repair. Its solid base provides greater stability and more surface area.

FEATURES

- ✔ **Developed in accordance with the latest safety regulations.**
- ✔ **Suitable for lifting loads of any type.**
- ✔ **Safety crank with folding handle.**
- ✔ **Lifting with either fixed toe or on clawed head.**
- ✔ **Low expenditure of force through optimal ratio.**



CE & DIN 7355 COMPLIANT
Our Jack design specifications meet or exceed ANSI/ASME B30.1 Safety Standards.

The jack is rated for full capacity at both the head and toe lift points.

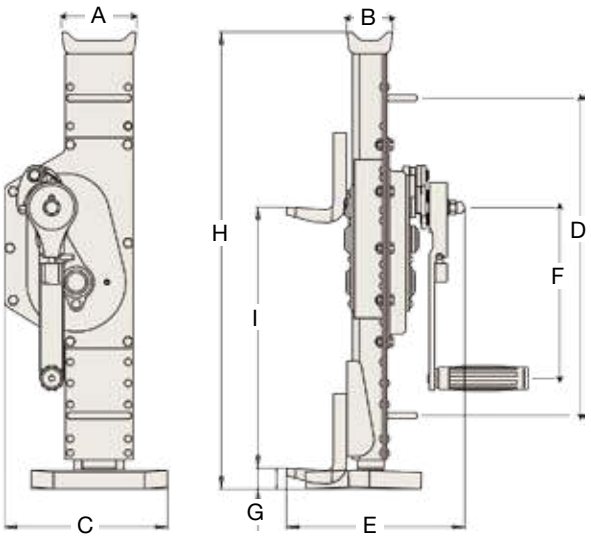
Model	Toe Capacity	Head Capacity	Dimensions (mm)									Weight
			A	B	C	D	E	F	G	H	I	
	(tonnes)	tonnes)	Width	Depth	Width	Length	Depth	Length	Height	Minimum Height	Stroke	(kg)
CJ15	1,5	1,5	90	50	151	250	202	525	65	725	350	13,5
CJ30	3	3	100	50	204	250	213	525	70	725	350	22
CJ50	5	5	110	68	211	250	236	525	70	725	300	28
CJ100	10,1	10,1	140	70	257	300	297	590	80	800	300	46

Models: LPC30 & LPC100

The LPC50 is used to lift this concrete slab. The head and toe capacity along with its mobility, makes the Rack Jacks ideal for various applications.

FEATURES

- ✔ **Low body height.**
- ✔ **Milled rack, geared wheels and tempered gears.**
- ✔ **Suitable for lifting loads of any type.**
- ✔ **Safety crank with folding handle.**
- ✔ **Low expenditure of force through optimal ratio.**
- ✔ **All construction components standardized.**
- ✔ **Lifting with either fixed toe or on clawed head.**



The jack is rated for full capacity at both the head and toe lift points.

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.

Model	Toe Capacity (tonnes)	Head Capacity (tonnes)	Dimensions (mm)									Weight (kg)
			A Width	B Depth	C Width	D Length	E Depth	F Length	G Height	H Minimum Height	I Stroke	
LPC15	1,5	1,5	90	50	166	525	218	250	30	724	350	16
LPC30	3	3	100	50	217	525	234	250	30	733	350	25
LPC50	5	5	110	68	239	525	260	250	30	730	300	32
LPC100	10	10	140	70	294	590	319	300	35	802	300	55

SUPER JACKS

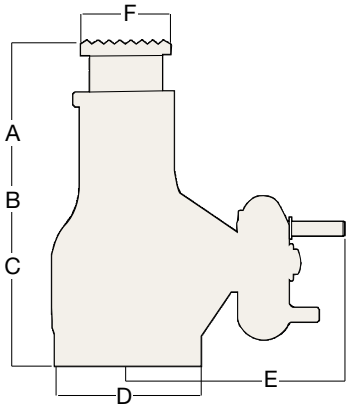
JJ Series 13,6 - 45,3 Tonnes

Models: JJA2515C & JJ3510D

Outdoor use and weld splatter can shorten the life of standard jacks. "We chose Simplex Super Jacks for the bullet proof construction and holding power."

FEATURES

- ✔ **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.**



RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

Model	Tonnes	Length (mm)	Diameter (mm)
SLB36	13,6	914	25
SLB36	22,7	914	25
SLB36	31,8	914	25
SLB56	45,3	1422	29

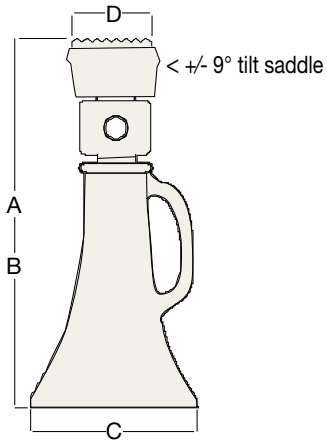
Model	Jack Housing Material	Capacity	Dimensions (mm)						Handle Effort Per Tonne	Weight
			A	B	C	D	E	F		
		(tonnes)	Minimum Height	Maximum Height	Stroke	Base Diameter	Socket	Cap Diameter	(N)	(kg)
JJ2510C	Steel	22,7	261	387	127	138	191	79	27	19,5
JJ3510D		31,8	261	387	127	140	191	79	22	20,0
JJ5010B		45,3	262	363	102	184	224	100	18	36,3
JJA1510C	Aluminium	13,6	261	387	127	138	191	60	40	12,7
JJA2510C		22,7	261	387	127	138	191	79	27	15,4
JJA2515C		22,7	388	606	225	141	191	79	27	19,5
JJA3510D		31,8	261	387	127	138	191	79	22	15,4
JJA5010B		45,3	262	363	102	184	224	100	18	27,7

Models: SJ1512, SJ156 & SJ158

Simplex screw jacks are used to adjust the height of this roller fixture. "We use this fixture during the cutting of long pieces of stock."

FEATURES

- ✔ **Ductile iron bodies for strength.**
- ✔ **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.**



RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

Model	Tonnes	Length (mm)	Diameter (mm)
SLB24	10,9	610	19
SLB35	18,1	914	21
SLB42	21,8	1067	29

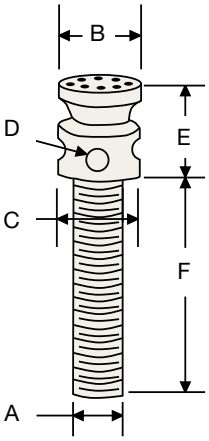
Model	Sustaining Capacity	Dimensions (mm)				Handle Effort Per Tonne	Weight
		A	B	C	D		
	(tonnes)	Closed Height	Stroke	Base Diameter	Cap Diameter	(N)	(kg)
SJ156	10,9	245	95	83	73	7,3	4,5
SJ158		296	146	140	73	7,3	5,4
SJ1512		397	248	159	73	7,3	7,3
SJ208	18,1	299	127	152	79	6,8	7,7
SJ2010		350	178	165	79	6,8	9,1
SJ2012		400	229	171	79	6,8	10,9
SJ258	21,8	331	108	165	83	6,8	12,7
SJ2512		432	210	184	83	6,8	16,8
SJ2518		585	362	216	83	6,8	23,6

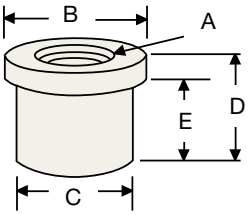
SCREW & CAP

SC Series 10,9 - 21,8 Tonnes

The shoulder nut is placed into piping, fixtures or other fixed forms supplied by the user.

Models: SC03568 & SC03620





144 Screw and Cap assemblies support the outer wall of a large generator assembly at the Grand Coulee Dam.

FEATURES

- ✔ **ACME threads holds the load indefinitely without creep down.**
- ✔ **Four-hole assembly allows for infinite height adjustments and exact leveling.**
- ✔ **Shoulder nut can be welded to piping.**
- ✔ **9° tilt saddle assists in centering load point.**

RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

Model	Tonnes	Length (mm)	Diameter (mm)
SLB24	10,9	610	19
SLB35	18,1	914	21
SLB42	21,8	1067	29

Model	Sustaining Capacity	Dimensions						Weight
		A	B	C	D	E	F	
	(tonnes)	Modified Acme Thread Diameter - Pitch A (Thread)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
SC156	10,9	1 1/2 - 3	73	57	22	95	144	2,5
SC158		1 1/2 - 3	73	57	22	95	195	2,8
SC1512		1 1/2 - 3	73	57	22	95	297	3,5
SC208	18,1	2 - 2 1/2	79	73	24	102	192	4,8
SC2010		2 - 2 1/2	79	73	24	102	243	5,4
SC2012		2 - 2 1/2	79	73	24	102	294	6,1
SC258	21,8	2 1/2 - 2 1/2	83	83	30	129	198	7,6
SC2512		2 1/2 - 2 1/2	83	83	30	129	300	9,9
SC2518		2 1/2 - 2 1/2	83	83	30	129	452	13,3
Shoulder Nuts								
SCN15	---	1 1/2 - 3	76	61	76	57	---	1,5
SCN20	---	2 - 2 1/2	101	76	83	57	---	2,3
SCN25	---	2 1/2 - 2 1/2	127	100	101	76	---	5

SPREADER JACK

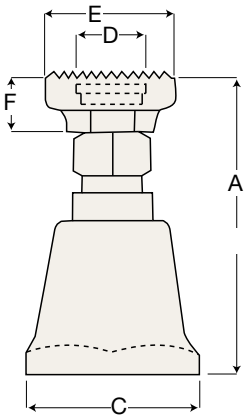
S Series 2,7 Tonnes

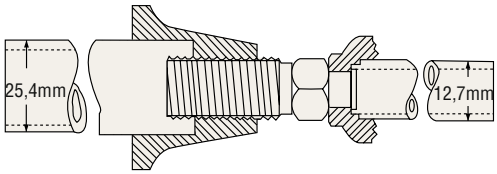
Model: S3A

The S3A, with its low profile and small footprint was the perfect solution to level the bed of this milling machine.

FEATURES

- ✔ **Perfect for close quarters and tight spaces.**
- ✔ **Supports 2,7 tonnes and has a 25,4 mm stroke for adjustments.**
- ✔ **Closed height of 77 mm.**
- ✔ **Serrated cap rotates and prevents load slippage.**





The spreader jack can easily be extended by fitting a 25,4mm diameter pipe in the cap well and a 12,7mm diameter pipe in the housing well.

WARNING
Please follow all recommended safety precautions to avoid personal injury or damage to the unit.

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.

Model	Sustaining Capacity (tonnes)	Operable Rise (mm)	Dimensions (mm)						Weight (kg)
			A Minimum Height	B Maximum Height	C Base	D Well Diameter	E Cap Width	F Cap Height	
S3A	2,7	25,4	77	101	51	21	38	17	1,5

PLANER JACK

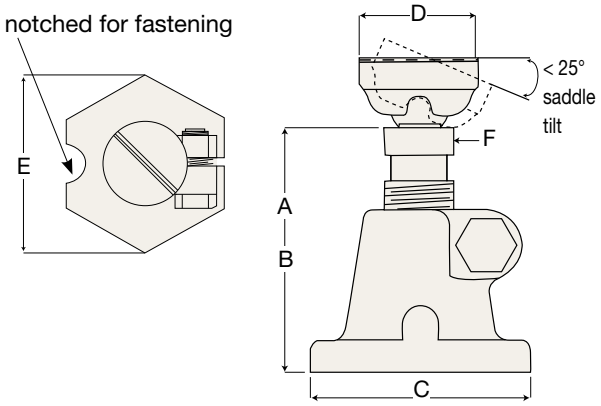
PJ Series 1,8 - 7,3 Tonnes

Models: PJ1P, PJ2P & PJ4P

The notched base and swivel socket cap makes the versatile Simplex Planer Jacks the perfect choice for leveling, or repair & maintenance on machinery beds and motors.

FEATURES

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



CE COMPLIANT
Our Jack design specifications meet or exceed ANSI/ASME B30.1 Safety Standards.

Model	Sustaining Capacity	Operable Rise							Weight
			A	B	C	D	E	F	
	(tonnes)	(mm)	Minimum Height	Maximum Height	Across Flats	Cap Diameter	Across Points	Hex Across Flats	(kg)
PJ1P	1,8	25	70	95	60	32	70	19	0,7
PJ2P	3,6	38	96	133	79	43	92	25	1,4
PJ3P	5,4	57	134	190	102	52	117	32	2,7
PJ4P	7,3	102	191	292	136	64	157	38	5,4

LOADBINDER JACKS

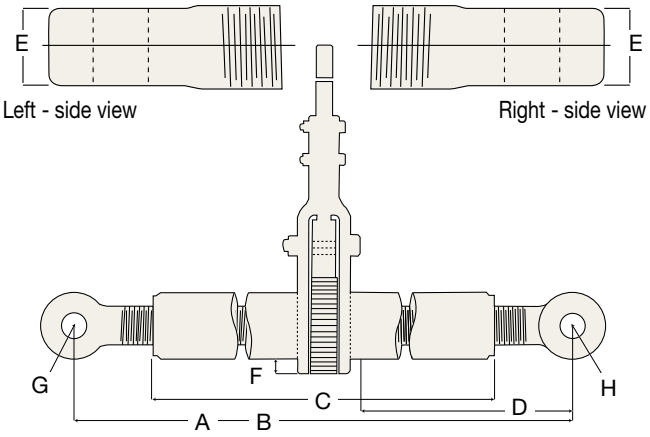
SER Series 18,1 Tonnes

Models: SER20 & SER30

The SER Series Loadbinder Jack was used to secure a tractor for transporting. The heavy-duty steel construction makes this jack useful in a myriad of applications.

FEATURES

- ✔ **18,1 tonnes capacity models are used for connecting river barges, pulling forms and steel plates.**
- ✔ **Ideal for bridge construction and steel engineering projects.**
- ✔ **Equipped with spring activated pawl and 66cm integrated handle.**
- ✔ **Can be used in "push" or "pull" applications.**



WARNING
Please follow all recommended safety precautions to avoid personal injury or damage to the unit.

Model	Travel Length	Screw Diameter	Dimensions (mm)								Weight
			A	B	C	D	E	F	G	H	
			Eye to Eye		Barrel Width	Left / Right Screw Length	Left / Right Screw Eye Thickness	Ratchet Socket Length	Inner Diameter Left / Right Screw Eye	Radius	
	(mm)	(mm)	Minimum	Maximum							(kg)
SER10	356	51	585	939	457	279	48	19	33	44	25,9
SER20	508	51	737	1244	610	356	48	19	33	44	29,9
SER30	660	51	889	1549	762	432	48	19	33	44	33,6
SER40	965	51	1194	2159	1067	584	48	19	33	44	41,7

PUSH / PULL JACKS

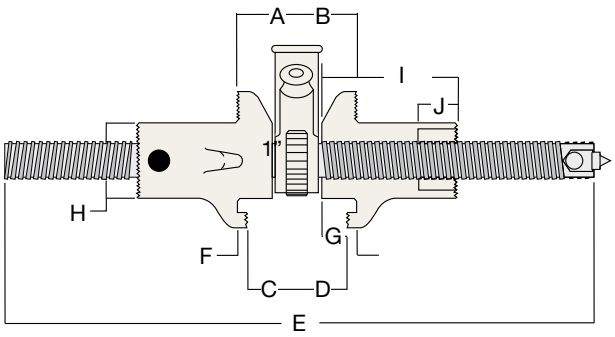
PP Series 9,1 Tonnes

Models: PP610, PP61015

A Simplex PP610 is used to separate these I-Beams for proper bridge repair operation and maintenance.

FEATURES

- ✔ **Used for pushing, pulling, holding and more.**
- ✔ **Ideal for weld shops.**
- ✔ **End nuts are designed to permit the use of chains with eye hooks.**
- ✔ **Suitable for adjusting forms, dampers, fixtures and flues.**
- ✔ **Incorporates 1.25-6 ACME 2G Class, right and left hand.**



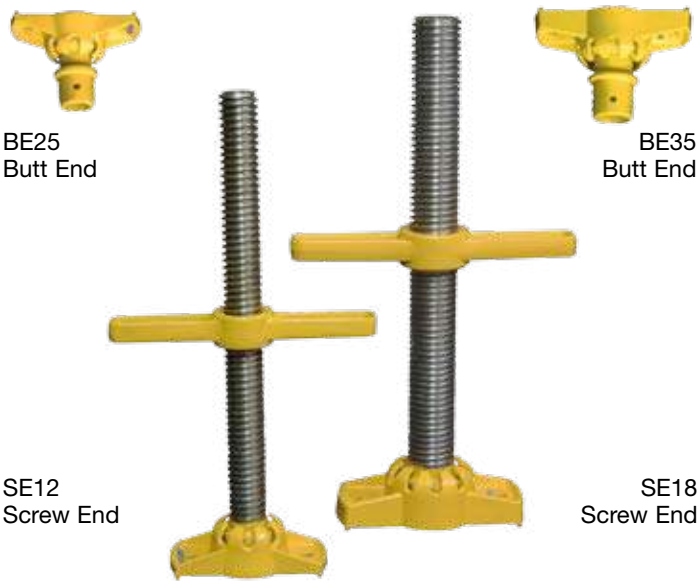
CE COMPLIANT
Our Jack design specifications meet or exceed ANSI/ASME B30.1 Safety Standards.

RECOMMENDED LEVER BAR LENGTHS
Please refer to page 19 for additional details.

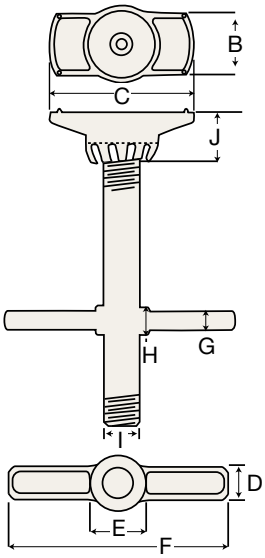
Model	Tonnes	Length (mm)	Diameter (mm)
SLB24	9,1	610	19

Model	Dimensions (mm)									
	A	B	C	D	E	F	G	H	I	J
	Minimum	Maximum	Minimum	Maximum	Length	Length	Length	Length	Length	Length
PP610	86	206	73	193	254	8	19	60	81	32
PP61015	----	----	----	----	254	----	----	----	----	----

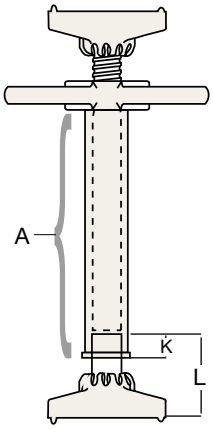
Model	Centered Capacity (tonnes)	Hook/Toe Offset Load Capacity (tonnes)	Travel (mm)	Handle Effort per ton (N)	Screw Diameter (mm)	Weight (kg)
PP610	9,1	1,8	121	6,8	32	5,9
PP61015	9,1	1,8	----	6,8	32	2,3



Model: SE12, SE18 - Screw & Butt End Sold Separately



Dimensions assume the use of both screw & butt ends together as an assembly.



Note:
Customer Supplied DN "Diametre Nominal" 38,1 mm or 50,8 mm pipe.

Simplex SE Series Trench Braces are used to shore up the walls of this trench for the repair work of underground water pipes.

FEATURES

- ✔ **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.**

WARNING
Please follow all recommended safety precautions to avoid personal injury or damage to the unit. Reference OSHA Timber Trench Brace Charts for proper spacing guidelines.

Model (Screw End)	Adjust Range	Pipe Size	Dimensions (mm)											
			A	B	C	D	E	F	G	H	I	J	K	L
	(mm)	(DN)	Minimum Pipe Length	Width	Length	Lever Width	Lever Diameter O.D.		Lever Height	Lever Nut Height	Screw Diameter O.D.	Height	Butt End Height	Collar Height
SE12	178	38	305	62	146	32	54	241	17	29	35	62	----	----
SE16	254	38	407	62	146	32	54	241	17	29	35	62	----	----
SE18	254	50	457	70	190	38	68	279	20	35	47	76	----	----
Model (Butt End)	*Screw Ends to be used with Butt End*													
BE25	*SE12 / SE16*		----	62	----	----	----	----	----	----	----	----	35	98
BE35	*SE18*		----	70	----	----	----	----	----	----	----	----	44	124

ROOF SUPPORT

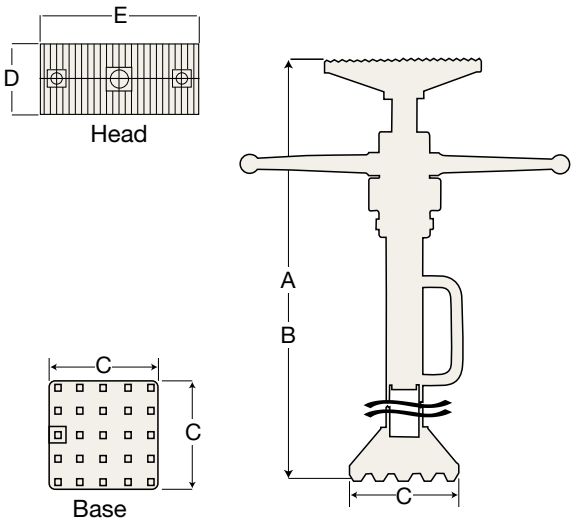
RS Series 3,6 Tonnes

Models: RS139AS66102, RS139AS78114

This RS Series Roof Support was used to support a horizontal I-Beam while weld work was being done on the verticle I-Beam.

FEATURES

- ✔ **Rated at 3,6 tonnes sustaining capacity.**
- ✔ **Designed for a wide range of maintenance and holding capabilities.**
- ✔ **Aluminium alloy housing and base makes this unit light and portable.**
- ✔ **Balanced carrying handle.**
- ✔ **Holds the load indefinitely without creep down.**



CE COMPLIANT
Our Jack design specifications meet or exceed ANSI/ASME B30.1 Safety Standards.

WARNING
Please follow all recommended safety precautions to avoid personal injury or damage to the unit.

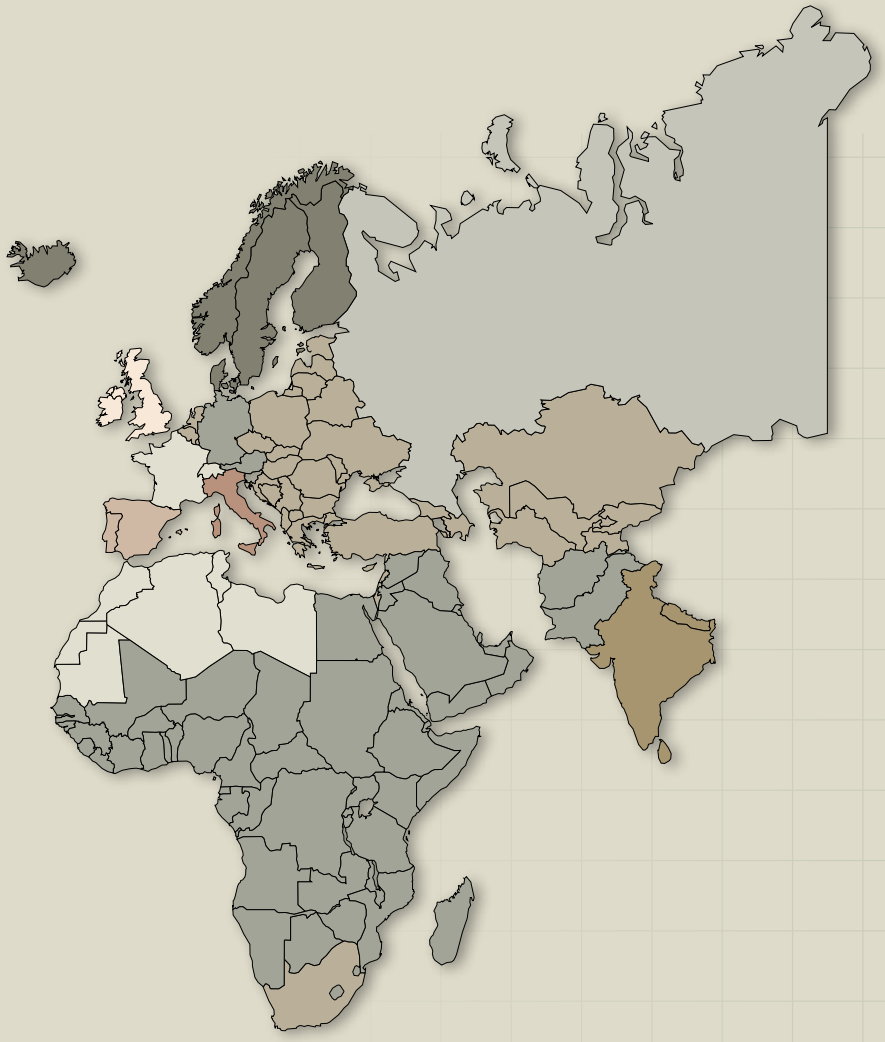
Model	Stroke	Dimensions (mm)					Weight
		A	B	C	D	E	
	(mm)	Minimum Height	Maximum Height	Base	Head Width	Head Length	(kg)
RS139AS66102	914	1676	2591	152	102	229	26
RS139AS78114	914	1981	2896	152	102	229	29

STEEL LEVER BARS & ACCESSORIES				
Model	Description	Length (mm)	Diameter (mm)	Weight (kg)
SLB24	Round Lever Bar	610	19	1,8
SLB35	Round Lever Bar	902	21	2,7
SLB36	Round Lever Bar	914	25	3,6
SLB42	Round Lever Bar	1067	29	5,4
SLB56	Round (Tapered) Lever Bar	1492	29	7,3
SLB60*	Chisel Point Lever Bar	1524	32	7,7
SLB70	Chisel Point Lever Bar	1778	32	9,1
IB1538	I - Beam Base	508	---	20
CHA1538	Heavy Duty Chain	2134	16	13

** Note: The SLB60 lever bars can be interchangeable with the SLB70 model, resulting in lower handle efforts.*

SIMPLEX®

Mechanical Lifting & Positioning Equipment



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