



# POWER JACKS

manufacturers of precision screw jacks, actuators and gearboxes

*Group*

## mechanical jacks



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section one



## Ratchet Jacks, 5 to 20 Ton Capacity

In this type of jack the familiar lever and fulcrum principle is used to lift and lower the load. The downward stroke of the lever raises the rack one notch. A pawl then slips into place to hold the load while the lever is raised to take another "bite". This is a very simple but safe and reliable construction, for moving, lifting and bracing loads of all kinds.

### Features

- Advantages are fast operation and low maintenance.
- The patented spring mechanism is a one piece self contained unit that can be adjusted, repaired or replaced easily without dismantling the jack.
- Rack bars can be pulled up by hand to meet the load thus saving time.
- When the rack is not under load the head can be dropped or tripped instantly.

### 516-MT

Without doubt the most popular 5-ton lifting jack in the world. Recognised for its lightness in weight combined with maximum strength and efficiency. A trouble free product which can be relied upon for years of continuous and exacting service.

### 1022B Aluminium

Unsurpassed for portability, combined with maximum strength and general efficiency. The ideal jack for handling machinery, erecting jigs, repairing equipment and doing all heavy moving jobs.

### 1522, 1528 & 2028

Very robust and efficient lifting jacks with overall height, range and capacities that appeal to boilermakers, contractors and all engaged in lifting and moving heavy machinery.



model no	rated load (tons)	height (mm)	stroke (mm)	toe min height (mm)	weight (kg)
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514-MT	5	356	190	38	13.1
516-MT	5	406	241	38	15.5
521-MT	5	533	368	38	18.2
1022-B	10	559	318	51	21.8
1522	15 Top-7.5 Toe	559	292	64	36.4
1528	15 Top-7.5 Toe	710	445	64	44.1
2028	20 Top-10 Toe	710	457	64	48.2



### Cable Reel Jacks, 5 & 10 Ton Capacity

These cable reel racks are used in pairs for reel support in many industries such as phone and cable companies, public utility companies, industrial plants, warehouses and shipyards. A firm jacking foundation is incorporated in a laminated hardwood base, oil treated to withstand the effects of severe weather conditions. They provide safe, reliable performance with a minimal measure of physical intervention.

- Features**
- Holds reels 15" - 90" (381-2286mm) dia.
  - Rack bar can be hand pulled to meet load
  - Double lever sockets
  - Can be trip lowered under no load
  - Reinforced laminated hardwood bases
  - Models with adjustable or fixed hooks
  - Cast Iron or aluminium construction

**516-MCR** 2 fixed side hooks seats 2" (51mm) spindles, top hook fits 2 1/2" / 64mm spindles, holds 15 to 60 inch (381- 1524mm) reels. Cast iron housing.

**524-MCR** Adjustable front hook seats up to 2" (51mm) spindles, holds 15" to 60" (381-1524mm) reels. Cast iron housing.

**1022-CRA** Features a top hook and three front hooks, seats up to 2" (51mm) spindles, holds 25" - 90" (635-2286mm) reels. Aluminium housing.

**1030-CRA** T-Frame base and top hook that seats up to 3" (76mm) spindles and two front hooks that seat 2 1/2" (64mm) spindles and hold reels 20" to 84".(508-2134mm). Aluminium housing.



model no	rated load (tons) per pair	height (mm)	stroke (mm)	weight (kg)
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516-MCR	10 top/5 side	572	241	27
524-MCR	10 top/5 side	590	356	30
1022-CRA	20 top/10 side	965	305	38
1030-CRA	20 top/10 side	762	356	41



### Journal Jacks, 15 to 100 Ton Capacity

For powerful lifting in low height areas such as fabrication yards, bridge and structural steel maintenance, ship building, railways, oil fields, machine shop, paper mill and general industrial uses. Journal jacks are ideal for rough and outdoor conditions. The lifting mechanism is totally enclosed, packed in grease and sealed to prevent leakage. The thread pitch on a bearing mounted lifting screw gives maximum load raise for every stroke of the lever bar. A positive safety stop prevents standard from being run out of base and a keyway prevents standard from turning under load.

#### Features

- 6 Models
- Can be used in any position
- Can hold a load indefinitely
- One piece, high grade cast housing
- Heat treated alloy steel screw and gears
- Easy to carry and spot
- A rugged product that can withstand the roughest applications

model no	capacity (tons)	height (mm)	raise (mm)	weight (kg)
1507	15	178	64	10.0
111-C2	15	254	127	11.8
2510-C2	25	254	127	17.3
3510-C3	35	273	127	23.2
5010-C4	50	267	114	31.8
100-A12	100 / 75	305	102	46.8



**Bell Base Jacks, 12 to 24 Ton Models**

Bell base jacks are heavy duty, one piece fully enclosed jacks used for all purpose lifting and holding operations.

**Features**

- 9 Models
- One piece, extra heavy base is sealed to keep dirt out of the mechanism
- Heavy duty ball bearings eliminate slipping and rubbing action and greatly reduce friction
- Drop forged serrated steel load cap prevents slippage
- One piece steel screw has a swivel head for levelling on uneven terrain
- Welded end stop to prevent accidental over-extension of the screw.



model no	sustaining capacity (tons)	closed height (mm)	stroke (mm)	handle effort per ton (kg)	base dia. (mm)	weight (kg)
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1½ x 6	12	248	95	7.25	121	4.5
1½ x 8		295	146		140	5.5
1½ x 12		397	247		159	7.3
2 x 8	20	299	127	6.8	152	7.7
2 x 10		349	177		165	9.1
2 x 12		400	228		172	10.9
2½ x 8	24	330	108		165	12.7
2½ x 12		432	209		184	16.8
2½ x 18		584	362		216	23.6



## Rack Jacks, 1.5 Te to 10 Te Capacity

### Fixed Claw type with safety or ratchet crank

Power Jacks Rack jacks utilise a rack and pinion method of operation with a double pawl to provide safe operation and reliable lowering. Available with a standard ratchet crank or a safety crank that will lock the load into any position. Manufactured from steel, this jack will provide long service in demanding conditions and is used extensively in the construction industry and mining as well as for general purpose lifting.

#### Features

- 14 Standard Models
- Full load can be applied to head or claw
- Durability through quality hardened steel parts
- Easy and safe manipulation
- Low physical effort required
- Two carrying handles
- High stability due to large base plate
- Available in either ratchet crank or safety crank
- Short version available for low heights

model no	capacity (tonnes)	type	height (mm)	stroke (mm)	min toe height (mm)	weight (kg)
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200 001	1.5	safety crank	725	350	70	12.5
200 007	1.5	ratchet crank	725	350	70	12.5
200 013	1.5	safety crank	600	300	75	11.3
200 019	1.5	ratchet crank	600	300	75	11.3
200 002	3	safety crank	725	350	79	20
200 008	3	ratchet crank	725	350	79	20
200 014	3	safety crank	600	300	75	18.5
200 020	3	ratchet crank	600	300	75	18.5
200 003	5	safety crank	722	300	77	27
200 009	5	ratchet crank	722	300	77	27
200 015	5	safety crank	597	300	77	23.5
200 021	5	ratchet crank	597	300	77	23.5
200 004	10	safety crank	797	300	82	42
200 010	10	ratchet crank	797	300	82	42



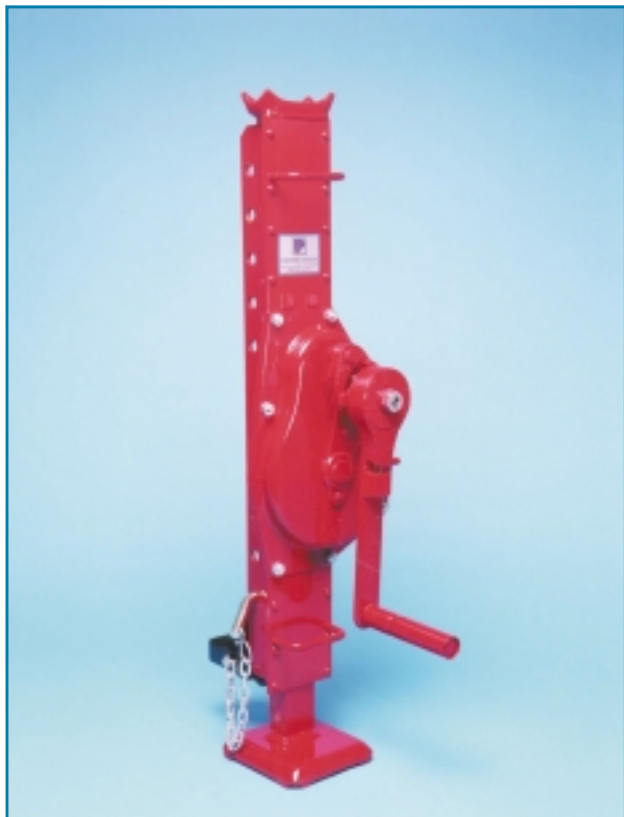
## Rack Jacks, 1.5 Te to 10 Te Capacity

### Adjustable Claw type with safety or ratchet crank

Power Jacks Rack jacks utilise a rack and pinion method of operation with a double pawl to provide safe operation and reliable lowering. The adjustable claw can be used in 16 different positions. Available with a standard ratchet crank or a safety crank that will lock the load into any position. Manufactured from steel, this jack will provide long service in demanding conditions and is used extensively in the construction industry and mining as well as for general purpose lifting.

#### Features

- 8 Standard Models
- Full load can be applied to head or claw
- 16 Claw positions
- Durability through quality hardened steel parts
- Easy and safe manipulation
- Low physical effort required to use
- Two carrying handles
- High stability due to large base plate
- Available in either ratchet crank or safety crank



model no	capacity (tonnes)	type	height (mm)	stroke (mm)	min toe height (mm)	weight (kg)
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200 025	1.5	safety crank	725	350	60	16.5
200 029	1.5	ratchet crank	725	350	60	16.5
200 026	3	safety crank	725	350	65	22
200 030	3	ratchet crank	725	350	65	22
200 027	5	safety crank	722	300	75	32
200 031	5	ratchet crank	722	300	75	32
200 028	10	safety crank	797	300	75	52
200 032	10	ratchet crank	797	300	75	52



## Rack & Pinion Jack with Spur Gear, 0.5 Te to 10 Te Capacities

For easy and secure lifting, pulling pushing and adjusting in a wide range of applications. Can be operated singly or in pairs and also available with crank extension. Commonly used for wall mounting, conveyor adjustment, container lids etc.

### Features

- 20 Standard Models
- Self locking security crank keeps the load in the desired position
- Easy and effective operation through optimal gear ratio
- For pulling or pushing loads from 1.5 - 10 Te
- Special versions available on request including:
  - different length of rack
  - different lift
  - drive shaft to connect several jacks
  - with internal brake and removable crank

model no	capacity (tonnes)	version	rack length (mm)	stroke (mm)
205 195	1.5	pull	1350	800
205 196	1.5	pull	1805	1250
205 197	1.5	pull	2055	1500
205 198	1.5	pull	2355	1800
205 199	1.5	push	1350	800
205 200	1.5	push	1805	1250
205 201	1	push	2055	1500
205 202	0.75	push	2355	1800
205 209	3	pull	1350	800
205 210	3	pull	1800	1250
205 211	3	pull	2350	1800
205 212	3	push	1350	800
205 213	2.5	push	1800	1250
205 214	1	push	2350	1800
205 288	5	pull	1405	800
205 289	5	pull	2400	1800
205 290	5	push	1405	800
205 291	3	push	2400	1800
200 073	10	pull	1450	800
200 074	10	push	1450	800





**Rack & Pinion Jack with self-locking worm gear 0.5 Te & 1.0 Te Capacities**

Rack and pinion jack for lifting, lowering, adjusting and fixing of mechanical components, devices and machines etc.

**Features**

- 2 Standard Models
- Extremely easy functioning
- Self locking worm gear
- Foldable handle
- Robust version with milled rack and hardened driving parts for in-door and out-door applications
- Special versions available on request including:
  - different length of rack
  - different crank version
  - different fixturing
  - different surface treatment



model no	capacity (tonnes)	height (mm)	stroke (mm)	weight (kg)
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200 075	0.5	735	530	5.7
200 076	1	785	600	9



## Spindle Support, 0.5 – 3.0 Te Capacity Standard Type

Power Jacks spindle supports are manually operated, telescopic drop type for ergonomic adjusting and supporting, levelling and dislocating.

### Features

- 11 Standard Models
- Robust rectangular tube
- Spindle with self-locking trapezoidal thread
- Maintenance-free bevel gear
- Easy and secure operation
- Easy to mount

### Options

- Tension or tension/compression load
- Different lift or height
- Another foot version
- Different crank version
- Additional fixing possibilities

model no	capacity (tonnes)	type	height (mm)	stroke (mm)	raise /turn (mm)	weight (kg)
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203 466	0.5	fixed crank & ground plate	500	300	3	4
203 468	0.5	with removable crank	500	300	3	4
202 620	0.5	without crank	500	300	3	4
203 469	0.5	with conn. shaft adap., without crank	500	300	3	4
203 522	1	fixed crank & ground plate	525	300	1.9	5.5
202 565	1	with removable crank	525	300	1.9	5.5
202 652	1	without crank	525	300	1.9	5.5
203 566	1	with conn. shaft adap., without crank	525	300	1.9	5.5
203 509	3	with removable crank & pivoting foot	670	350	2.2	17
202 616	3	without crank, with pivoting foot	670	350	2.2	17
203 567	3	with conn. shaft adap., without crank	670	350	2.2	17



**Spindle Support 0.5 – 3.0 Te Capacity  
Additional Drop Type**

As per the standard type but with an additional third telescopic tube allowing an additional drop of up to 300mm in 50mm increments.

**Features**

- 11 Standard Models
- Additional telescopic drop up to 300mm
- Robust rectangular tube
- Spindle with self-locking trapezoidal thread
- Maintenance-free bevel gear
- Easy and secure operation
- Easy to mount

**Options**

- Tension or tension/compression load
- Different lift or height
- Another foot version
- Different crank version
- Additional fixing possibilities



model no	capacity (tonnes)	type	height (mm)	stroke (mm)	add. drop (mm)	raise/turn (mm)	weight (kg)
203 467	0.5	fixed crank & ground plate	550	300	200	3	4.5
203 472	0.5	with removable crank	550	300	200	3	4.5
202 578	0.5	without crank	550	300	200	3	4.5
203 474	0.5	with conn. shaft adap., without crank	550	300	200	3	4.5
203 520	1	fixed crank & ground plate	585	300	300	1.9	7.5
203 473	1	with removable crank	585	300	300	1.9	7.5
202 579	1	without crank	585	300	300	1.9	7.5
203 475	1	with conn. shaft adap., without crank	585	300	300	1.9	7.5
203 323	3	with removable crank & pivoting foot	720	350	300	2.2	21
202 223	3	without crank, with pivoting foot	720	350	300	2.2	21
203 447	3	with conn. shaft adap., without crank	720	350	300	2.2	21



## Mobile Lifting Table

Power Jacks adjustable height mobile table ideal for workshops and production environments.

### Features

- Fully height adjustable from 735mm to 1035mm under load
- Large tabletop 415mm x 515mm with anti-slipping device
- Adjustable tabletop pivots from 0° to 40°
- Robust steel construction
- Anti-corrosion resistant powder coat finish

model no	capacity (kg)	height (mm)	lift (mm)	raise/turn (mm)	weight (kg)
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205 651	200	735	300	1.9	19
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## Mobile Lifting Table – Heavy Duty Type

Power Jacks heavy-duty mobile table is an indispensable, universal helper for workshop and production to transport and prepare work pieces, spare parts etc.

### Features

- 2 Standard Models
- Easy to move due to large detachable wheels made of hard rubber
- Safe positioning with detachable brakes
- Fully height adjustable from 750mm to 1100mm
- Self-locking spindle drive
- Crank foldable handle

model no	capacity (kg)	height (mm)	lift (mm)	raise/turn (mm)	weight (kg)
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203 413	750	750	350	5.5	59
203 132	1250	750	350	6.7	83



**Sluice Gate Drive, 1 – 6 Tonne Capacity**

To open and close sluice gates on canals and rivers

**Features**

- Internal self-actuating brake keeps the charge in every required position
- Easy and effective operation through optimal gear ratio
- Load 1 - 6 tonnes
- Lift and length of jack individually adjusted to your requirements
- Special versions on request:
  - removable crank
  - zinc-plated surface
  - crank shaft extension

*Note: for full dimension details and a checklist for specifying these products, please consult the factory.*



technical data	category	model 1212.1	model 1212.2	model 1212.3	model 1212.6
pulling force/jack	tonnes	1	2	3	6
pushing force/jack	tonnes	1	2	3	3
gear ratio inside jack	I	4.5	9.5	22.5	24.7
crank force at max pulling force	N	220	240	210	370
lift/crank turn with side operation	mm	13.9	8	3.9	4
rack weight	kg/m	6.5	10	14.5	22
jack weight	kg	8	13	16	27



## Double Sluice Gate Drive, 1.5 – 10 Tonne Capacity

To open and close sluice gates on canals and rivers

### Features

- Internal self-actuating brake keeps the charge in every required position
- Easy and effective operation through optimal gear ratio
- Load 1.5 - 10 tonnes
- Lift and length of jack individually adjusted to your requirements
- Special versions on request:
  - removable crank
  - zinc-plated surface
  - crank shaft extension

*Note: for full dimension details and a checklist for specifying these products, please consult the factory.*

technical data	category	model 1280.1.5	model 1280.3	model 1280.5	model 1280.10
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pulling force/ pair of jacks	tonnes	1.5	3	5	10
pushing force/ pair of jacks	tonnes	1.5	3	5	5
gear ratio inside jack	l	4.5	9.5	22.5	24.7
crank force at max pulling force	N	220	240	210	370
lift/crank turn with side operation	mm	13.9	8	3.9	4
lift/crank turn with angular operation	mm	9.3	5.4	2.6	2.7
rack weight	kg/m	6.5	10	14.5	22
pair of jacks weight	kg	14	25	31	52



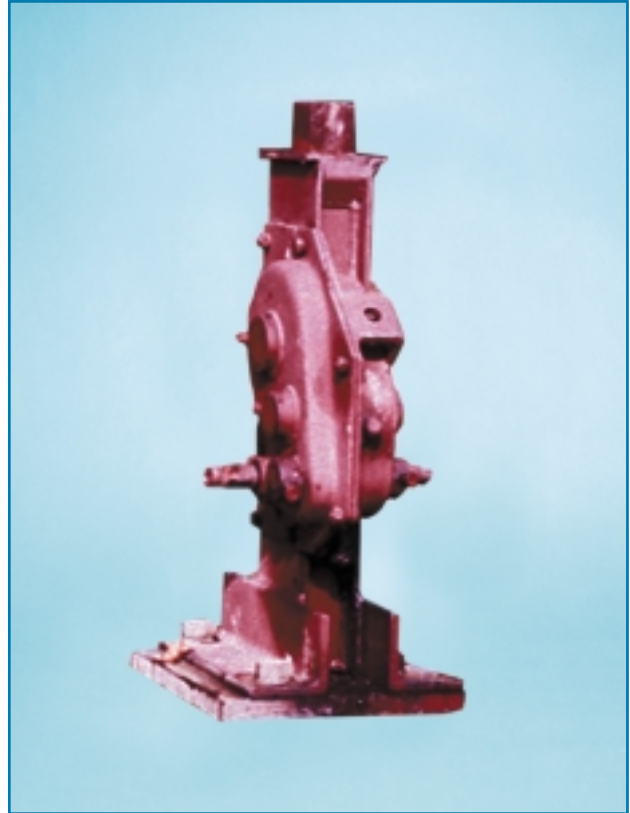
**Sluice Gate Drive, 4 – 10 Tonne Capacity**

To open and close sluice gates on canals and rivers

**Features**

- High security standard through encased gear drive and internal brake
- Easy and effective operation through optimal gear ratio
- Removable Crank
- Load 4 - 10 tonnes
- Special versions on request:
  - zinc-plated surface
  - crank shaft extension

*Note: for full dimension details and a checklist for specifying these products, please consult the factory.*



technical data	category	model 1214.4	model 1213.6	model 1213.10
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pulling force/jack	tonnes	4	6	10
pushing force/jack	tonnes	2	3	5
gear ratio inside jack	l	36.3	47.5	98.4
crank force at max pulling force	N	270	300	280
lift/crank turn with side operation	mm	2.5	2.1	1.15
lift, motor operated	mm/min	140	122	67
rack weight	kg/m	14.5	22	26
jack weight	kg	47.5	75	100



## Double Sluice Gate Drive, 5 – 20 Tonne Capacity

To open and close sluice gates on canals and rivers

### Features

- High security standard through encased gear drive and internal brake
- Easy and effective operation through optimal gear ratio
- Side or angular gear operation
- Removable Crank
- Optional electric motor drive
- Load 5 - 20 tonnes
- Special versions on request:
  - zinc-plated surface
  - crank shaft extension

*Note: for full dimension details and a checklist for specifying these products, please consult the factory.*

technical data	category	model 1285.8	model 1285.12	model 1285.2
pulling force/jack	tonnes	8	12	20
pushing force/jack	tonnes	4	6	10
gear ratio inside jack	l	36.3	47.5	98.4
crank force at max pulling force	N	270	300	280
lift/crank turn with side operation	mm	2.5	2.1	1.15
lift/crank turn with angular operation	mm	1.7	1.4	0.8
lift, motor operated	mm/min	140	122	67
rack weight	kg/m	14.5	22	26
jack weight	kg	47.5	75	100