

# **Plate Jack<sup>®</sup>**—the jack of choice in areas of constrained headroom and for effective permanent jack installation

**Standard Plate Jacks<sup>®</sup>**—2,500 psi allowable working pressure—technical data

Jack Size	Rated Load, kips	Diameters		Fluid Volumes, cu.in.		Dry Weight, lbs.	
		Jack	Bearing Plate	Unextended	1" Extension	Jack and Fitting	With Bearing Plates
RS 020	18	4.75"	2.79"	9	18	3	5
RS 030	30	6.00"	4.04"	12	34	4	7
RS 080	89	8.75"	6.79"	19	69	5	16
RS 110	118	9.88"	7.92"	22	86	6	20
RS 130	140	10.63"	8.67"	24	99	7	24
RS 180	180	11.88"	9.92"	27	123	8	30
RS 240	280	13.88"	11.92"	32	165	10	41
RS 400	420	16.50"	14.54"	38	231	13	60
RS 500	570	19.00"	17.04"	44	303	16	81
RS 800	930	23.63"	21.67"	55	463	24	128
RS 1000	1,160	26.00"	24.04"	62	558	28	156
RS 1400	1,500	29.50"	27.54"	70	714	35	204
RS 1900	2,060	34.25"	32.29"	82	957	46	278
RS 2100	2,320	36.25"	34.29"	87	1070	51	312
RS 2500	2,680	38.22"	36.26"	92	1188	54	347
RS 2900	2,970	40.86"	38.90"	98	1355	59	396
RS 3800	3,860	46.29"	44.33"	112	1732	75	512
RS 4500	4,530	50.00"	48.04"	121	2017	87	601
RS 5300	5,300	53.93"	51.97"	131	2342	100	701
RS 6100	6,135	57.86"	55.90"	140	2691	115	810



- Notes:**
1. Maximum rated extension (lift) of all listed jacks is 1".
  2. Rated load is thrust with 2,500 psi hydraulic pressure and at 1" extension. Thrust is slightly greater at lesser extensions. Where jacks are extended with a hardening material, such as epoxy, the permanent long term compressive capacity is the bearing area of the jack times the allowable compressive strength of the injection material.
  3. Divide fluid volumes by 231 to obtain U.S. gallons.
  4. Weight of fittings includes 3/8" needle valve on injection nozzle and plug on vent.
  5. Weight with bearing plates assumes 1/2" steel plates. Nylon or UHMW-PE plates may be used to reduce weight.
  6. The RS 1900 is available in a 1 3/4" extension capability. Specify as RS 1915.

**Specially sized jacks** can be manufactured to your project requirements



Plate Jack<sup>®</sup>

# **Plate Jack™**—the jack of choice in areas of constrained headroom and for effective permanent jack installation

**Standard Plate Jacks™**—2,500 psi (17.24 N/mm<sup>2</sup>) allowable working pressure—technical data



Jack Size	Rated Load, kN	Diameters, mm		Fluid Volumes, liter		Dry Weight, kg	
		Jack	Bearing Plate	Unextended	25mm Extension	Jack and Fitting	With Bearing Plates
RS 020	80	121	71	0.15	0.30	1.4	2.3
RS 030	133	152	102	0.20	0.56	1.8	3.2
RS 080	396	222	172	0.31	1.13	2.3	7.3
RS 110	525	251	201	0.36	1.41	2.7	9.1
RS 130	623	270	220	0.39	1.62	3.2	11
RS 180	801	302	252	0.44	2.02	3.6	14
RS 240	1,245	352	302	0.52	2.70	4.5	19
RS 400	1,870	419	369	0.62	3.79	5.9	27
RS 500	2,540	483	433	0.72	4.97	7.3	37
RS 800	4,140	600	550	0.90	7.59	11	58
RS 1000	5,160	660	610	1.02	9.15	13	71
RS 1400	6,670	749	699	1.15	11.7	16	93
RS 1900	9,160	870	820	1.34	15.7	21	126
RS 2100	10,320	921	871	1.43	17.5	23	142
RS 2500	11,920	971	921	1.51	19.5	24	157
RS 2900	13,210	1,038	988	1.61	22.2	27	180
RS 3800	17,170	1,176	1,126	1.84	28.4	34	232
RS 4500	20,150	1,270	1,220	1.98	33.1	39	273
RS 5300	23,570	1,370	1,320	2.15	38.4	45	318
RS 6100	27,290	1,470	1,420	2.30	44.1	52	367

- Notes:**
1. Maximum rated extension (lift) of all listed jacks is 25 mm.
  2. Rated load is thrust with 17.24 N/mm<sup>2</sup> hydraulic pressure and at 25 mm extension. Thrust is slightly greater at lesser extensions. Where jacks are extended with a hardening material, such as epoxy, the permanent long term compressive capacity is the bearing area of the jack times the allowable compressive strength of the injection material.
  3. Weight of fittings includes 3/8" (9.5 mm) needle valve on injection nozzle and plug on vent.
  4. Weight with bearing plates assumes 25.4 mm steel plates. Nylon or UHMW-PE plates may be used to reduce weight.
  5. The RS 1900 is available in a 44 mm extension capability. Specify as RS 1915.

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## "5" Series Plate Jacks®—technical data

5,000 psi allowable working pressure

Jack Size	Rated Load, kips	Diameters		Fluid Volumes, cu.in.		Dry Weight, lbs.	
		Jack	Bearing Plate	Unextended	1" Extension	Jack and Fitting	With Bearing Plates
5-14	591	14.00"	11.90"	31	182	16	48
5-16.5	899	16.50"	14.40"	38	247	21	67
5-23.75	2020	23.75"	21.65"	56	493	40	144
5-28	2847	28.00"	25.90"	66	676	54	204
5-38	5561	38.00"	35.90"	91	1217	95	385

The **"5" Series Plate Jacks®** were developed for applications in which the available foot print is too small to permit use of a standard Plate Jack®



**Specially sized jacks** can be manufactured to your project requirements



### Notes:

1. Maximum rated extension (lift) of "5" series jacks is 1".
2. Unextended thickness of "5" series jacks is 15/16".
3. Rated load is thrust with 5,000 psi hydraulic pressure and at 1" extension. Thrust is slightly greater at lesser extensions. Where jacks are extended with a hardening material, such as epoxy, the permanent long term compressive capacity is the bearing area of the jack times the allowable compressive strength of the injection material.
4. Divide fluid volumes by 231 to obtain U.S. gallons.
5. Weight of fittings includes 3/8" needle valve on injection nozzle and plug on vent.
6. Weight with bearing plates assumes 1/2" steel plates. Other materials may be used to reduce weight.

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**"5" Series Plate Jacks™** — technical data

5,000 psi (34.48N/mm<sup>2</sup>) allowable working pressure

Jack Size	Rated Load, kN	Diameters, mm		Fluid Volumes, liter		Dry Weight, kg	
		Jack	Bearing Plate	Unextended	25mm Extension	Jack and Fitting	With Bearing Plates
5-14	2,628	36	30	0.50	2.98	7.3	22
5-16.5	3,999	42	37	0.62	4.05	9.5	30
5-23.75	8,985	60	55	0.90	8.08	18	65
5-28	12,660	71	66	1.08	11.1	25	93
5-38	24,730	97	91	1.49	19.9	43	175

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**Notes:**

1. Maximum rated extension (lift) of "5" series jacks is 25 mm.
2. Unextended thickness of "5" series jacks is 33 mm.
3. Rated load is thrust with 34.48 N/mm<sup>2</sup> hydraulic pressure and at 25 mm extension. Thrust is slightly greater at lesser extensions. Where jacks are extended with a hardening material, such as epoxy, the permanent long term compressive capacity is the bearing area of the jack times the allowable compressive strength of the injection material.
4. Weight of fittings includes 3/8" (9.5 mm) needle valve on injection nozzle and plug on vent.
5. Weight with bearing plates assumes 12.7 mm steel plates. Other materials may be used to reduce weight.

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