

# DJ6 | Hydraulic Mechanical Drilling Jar

The DJ6 drilling jar remains one of the toughest and most durable in the industry. The two way action of the jar gives the operator the ability to work the tool both, upwards and downwards. This particular jar operates mechanically downward, and hydraulically upward. Cougar's proprietary internal mechanical latch (Figure 1) assures that the jar will not accidentally fire while tripping or making connections.

**MAX TEMPERATURE**

Standard Seals: 250°F / 121°C  
 High Temp Seals: 405°F / 207°C  
 Geo Seals: 405°F + / 207°C +

**SPECIFICATIONS**

**Imperial**

Tool Model	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in <sup>2</sup> )	Latch Setting Range (lbf)	Maximum Pull for Firing (lbf)	Maximum Pull after Firing (lbf)	Maximum Torque (ft-lb)
DJ6-350	3.500	1.150	18.0	450	4.9	0-36,000*	54,000	119,000	5,000
DJ6-418	4.125	2.000	18.0	550	7.8	0-45,000*	115,000	190,000	14,000
DJ6-500	4.875	2.250	17.0	700	11.0	0-40,000*	84,000	380,000	17,000
DJ6-650	6.550	2.500	17.5	1,400	16.8	0-110,000*	156,000	685,000	40,000
DJ6-675	6.880	2.625	17.5	1,500	18.7	0-110,000*	179,000	625,000	40,000
DJ6-800	8.150	2.813	19.0	2,300	28.2	0-110,000*	291,000	1,150,000	68,000
DJ6-900	9.150	2.813	19.5	3,100	33.2	0-120,000*	361,000	1,500,000	121,000
DJ6-950	9.550	2.813	19.5	3,200	33.2	0-120,000*	361,000	1,500,000	141,000
DJ6-1000	10.000	3.000	19.5	3,800	33.2	0-120,000*	400,000	1,500,000	170,000

**Metric**

Tool Model	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm <sup>2</sup> )	Latch Setting Range (daN)	Maximum Pull for Firing (daN)	Maximum Pull after Firing (daN)	Maximum Torque (N-m)
DJ6-350	89	29	5.5	204	31.6	0-16,000*	24,000	52,000	6,700
DJ6-418	105	51	5.5	249	50.3	0-20,000*	51,100	84,500	18,900
DJ6-500	124	57	5.2	317	71.0	0-17,700*	37,300	169,000	23,000
DJ6-650	166	64	5.3	635	108.4	0-48,900*	69,300	304,700	54,200
DJ6-675	175	66	5.3	680	120.7	0-48,900*	79,600	278,000	54,200
DJ6-800	207	71	5.9	1,043	181.9	0-48,900*	129,400	511,500	92,200
DJ6-900	232	71	5.9	1,406	214.2	0-53,300*	160,500	667,200	164,000
DJ6-950	243	71	5.9	1,451	214.2	0-53,300*	160,500	667,200	191,100
DJ6-1000	254	76	5.9	1,723	214.2	0-53,300*	177,900	667,200	230,500

\*Down lock loads will typically be 60-70% of the up value

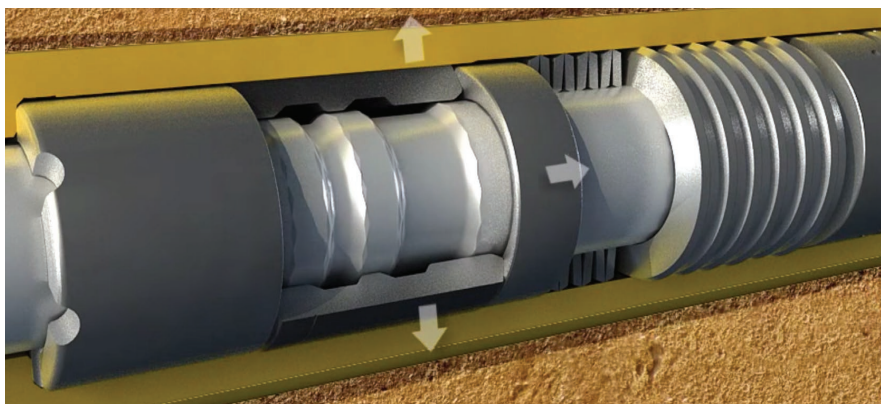


Figure 1. Proprietary internal latching mechanism to prevent mis-firing and eliminate the need for external safety clamps.



# DJ10 | Double Acting Hydra-Mechanical Drilling Jar

The DJ10 drilling jar remains one of the toughest and most durable in the industry. The two way action of the jar gives the operator the ability to work the tool both, upwards and downwards. This particular jar operates hydraulically in both directions, downward and upward. Cougar's proprietary internal mechanical latch (*Figure 1*) assures that the jar will not accidentally fire while tripping or making connections.



### SPECIFICATIONS

**MAX TEMPERATURE**

Standard Seals: 250°F / 121°C  
 High Temp Seals: 405°F / 207°C  
 Geo Seals: 405°F + / 207°C +

**Imperial**

Tool Model	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in <sup>2</sup> )	Latch Setting Range (lbf)	Maximum Pull for Firing (lbf)	Maximum Pull after Firing (lbf)	Maximum Torque (ft-lb)
DJ10-418	4.125	2.000	19.0	600	7.8	0-45,000*	115,000	190,000	14,000
DJ10-500	4.875	2.250	19.0	800	11.0	0-40,000*	84,000	380,000	17,000
DJ10-650	6.550	2.500	18.5	1,600	16.8	0-110,000*	156,000	685,000	40,000
DJ10-800	8.125	2.813	19.5	2,350	28.2	0-110,000*	291,000	1,150,000	68,000
DJ10-825	8.250	2.813	19.5	2,400	28.2	0-110,000*	291,000	1,150,000	68,000
DJ10-950	9.550	2.813	20.0	3,300	33.2	0-120,000*	361,000	1,500,000	141,000
DJ10-1000	10.000	3.000	20.0	4,000	33.2	0-120,000*	400,000	1,500,000	170,000

**Metric**

Tool Model	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm <sup>2</sup> )	Latch Setting Range (daN)	Maximum Pull for Firing (daN)	Maximum Pull after Firing (daN)	Maximum Torque (N-m)
DJ10-418	105	51	5.8	272	50.3	0-20,000*	51,100	84,500	18,900
DJ10-500	124	57	5.8	363	71.0	0-17,700*	37,300	169,000	23,000
DJ10-650	166	64	5.6	726	108.4	0-48,900*	69,300	304,700	54,200
DJ10-800	207	71	5.9	1,066	181.9	0-48,900*	129,400	511,500	92,200
DJ10-825	210	71	5.9	1,088	181.9	0-48,900*	129,400	511,500	92,200
DJ10-950	243	71	6.1	1,497	214.2	0-53,300*	160,500	667,200	191,100
DJ10-1000	254	76	6.1	1,814	214.2	0-53,300*	177,900	667,200	230,500

\*Down lock loads will typically be 60-70% of the up value

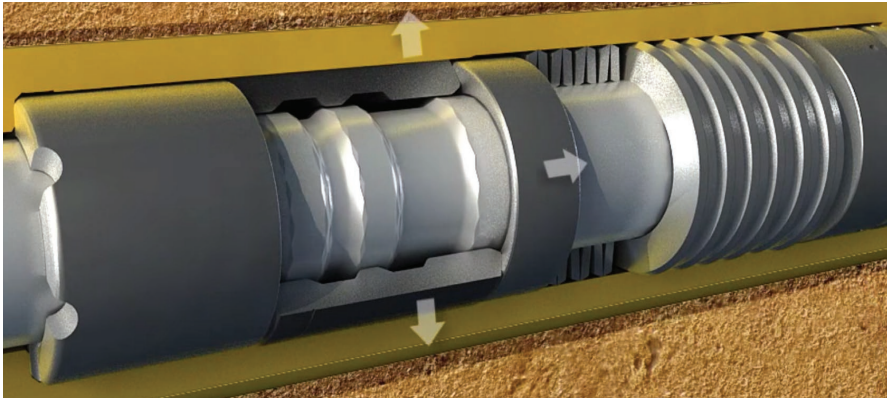


Figure 1. Proprietary internal latching mechanism to prevent mis-firing and eliminate the need for external safety clamps.



# DJ12 | Double Acting Hydraulic Drilling Jar

The DJ12 drilling jar remains one of the toughest and most durable in the industry. The two way action of the jar gives the operator the ability to work the tool both, upwards and downwards. This particular jar operates hydraulically in both directions, downward and upward. The hydraulic operation upwards allows the customer to utilize pipe stretch to assist in the jarring performance. The jar can be pulled harder to give greater impact or lighter to give a lesser impact.

## SPECIFICATIONS

### MAX TEMPERATURE

Standard Seals: 250°F / 121°C  
 High Temp Seals: 405°F / 207°C  
 Geo Seals: 405°F + / 207°C +

### Imperial

Tool Model	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in <sup>2</sup> )	Maximum Pull for Firing (lbf)	Maximum Pull after Firing (lbf)	Maximum Torque (ft-lb)
DJ12-418	4.125	2.000	19.0	600	7.8	115,000	190,000	14,000
DJ12-500	4.875	2.250	19.0	800	11.0	84,000	380,000	17,000
DJ12-650	6.550	2.500	18.5	1,600	16.8	156,000	685,000	40,000
DJ12-800	8.125	2.813	19.5	2,350	28.2	291,000	1,150,000	68,000
DJ12-825	8.250	2.813	19.5	2,400	28.2	291,000	1,150,000	68,000
DJ12-950	9.550	2.813	20.0	3,300	33.2	361,000	1,500,000	141,000
DJ12-1000	10.000	3.000	20.0	4,000	33.2	400,000	1,500,000	170,000

### Metric

Tool Model	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm <sup>2</sup> )	Maximum Pull for Firing (daN)	Maximum Pull after Firing (daN)	Maximum Torque (N-m)
DJ12-418	105	51	5.8	272	50.3	51,100	84,500	18,900
DJ12-500	124	57	5.8	363	71.0	37,300	169,000	23,000
DJ12-650	166	64	5.6	726	108.4	69,300	304,700	54,200
DJ12-800	207	71	5.9	1,066	181.9	129,400	511,500	92,200
DJ12-825	210	71	5.9	1,088	181.9	129,400	511,500	92,200
DJ12-950	243	71	6.1	1,497	214.2	160,500	667,200	191,100
DJ12-1000	254	76	6.1	1,814	214.2	177,900	667,200	230,500

## FEATURES AND BENEFITS

- 🔗 Ideal for directional, horizontal and deep hole applications
- 🔗 Suitable for drilling and fishing operations
- 🔗 Fully sealed: Lubricated for longer service life
- 🔗 Cougar Safety Clamp included

