TMG

TMG Stressing Equipments

TMG Stressing Equipments

TMG has a range of stressing equipments which includes Mono Jacks, Stressing Jacks, and accessories, to economically and efficiently stress its tendons. Our equipments are designed to inter-match different pumps and jacks to achieve maximum efficiency.

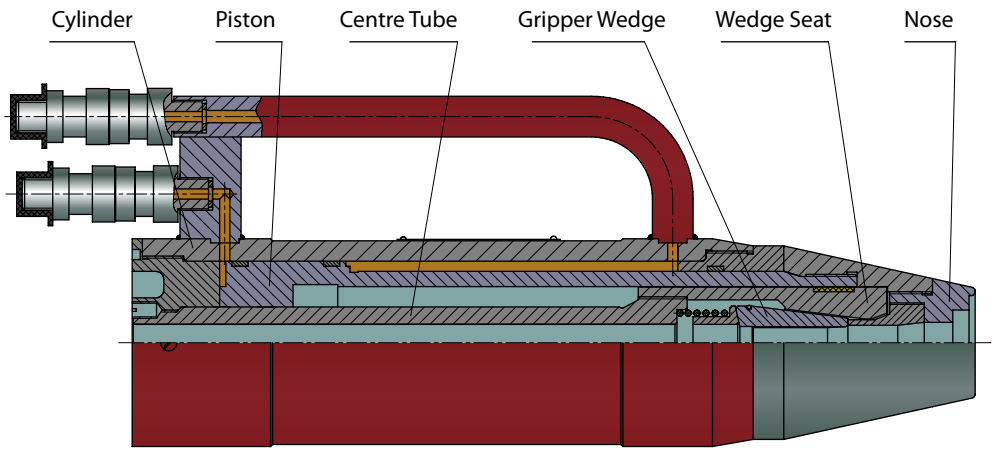
TMG Mono Jack

Mono Jack is designed to stress a single strands (bare or epoxy coated) and PC Wire. It has an automatic grip-and-release build-in system that allows faster stressing. Our Mono Jacks are popular with operators for Slab On Grade, building slab and pre-cast yards stressing.

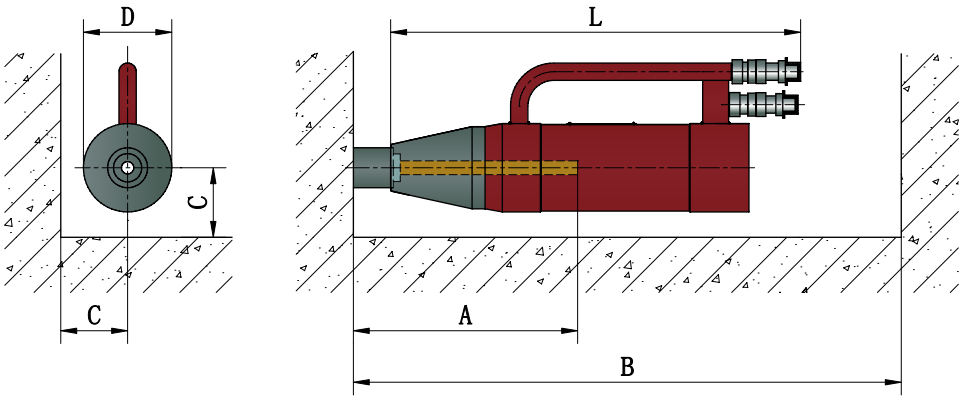
Mono Jack

Mono Jack with chrome coating

Mono Jack Accessories



TMG Mono Jack Structural Diagram



TMG Mono Jack Block-Out Dimensions

Part Number			MJ10	MJ26
PC Wire Diameter	4.00 - 9.00	mm	•	
Strand Diameter	12.70	mm		•
	15.24	mm		•
Capacity		kN	100	260
Maximum Operating Pressure		MPa	45	58
Stroke		mm	120	200
Centre-Hole Diameter		mm	Φ17	Φ18
Piston Area		m^2	2.21×10^{-3}	4.417×10^{-3}
Reverse Piston Area		m^2	0.86×10^{-3}	1.256×10^{-3}
Maximum Return Pressure		MPa	< 25	
Block-Out Dimensions	A (Necessary Strands Protrusion)	mm	80	200
	B	mm	700	900
	C	mm	60	100
Dimension	D	mm	Φ75	Φ105
	L	mm	380	440
Weight		kg	10	19

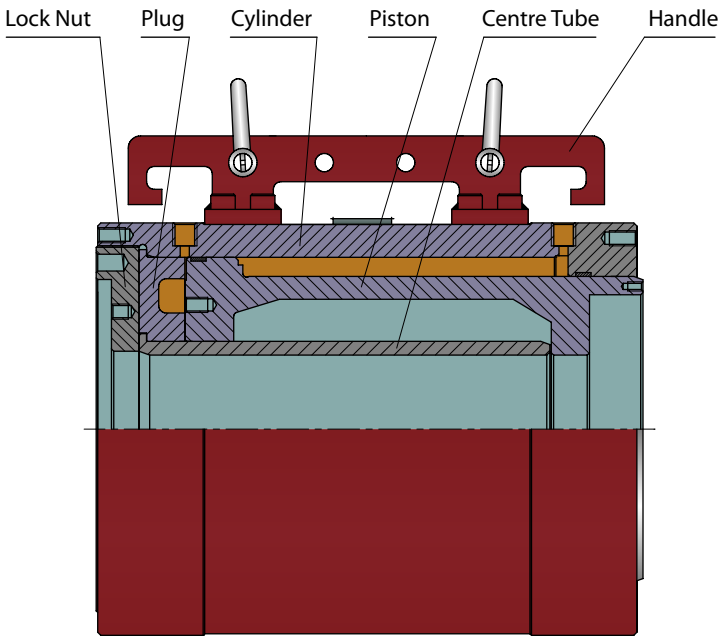
Scenes of Production
(Copper Plated Piston for Stressing Jack)

Scenes of Production

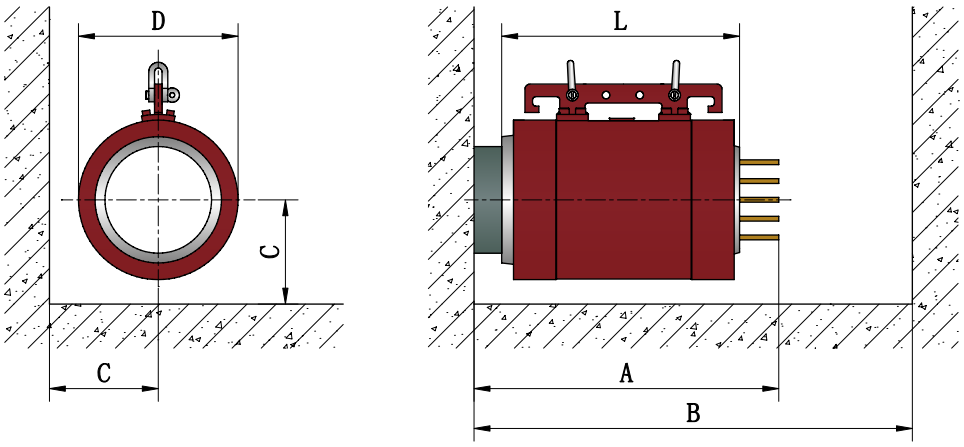
TMG Stressing Jack

TMG Stressing Jack is small, compact and highly efficient. Our Stressing Jacks are 35% - 40% lighter than many other makers. These advantages are crucial to many operators as it will lessen the work load on the users. And with its compact size, it can work in smaller confined places and also reduce the usage of strands.

Stressing Jack



TMG Stressing Jack Structural Diagram



TMG Stressing Jack Block-Out Dimensions

Technical Data for TMG Stressing Jack

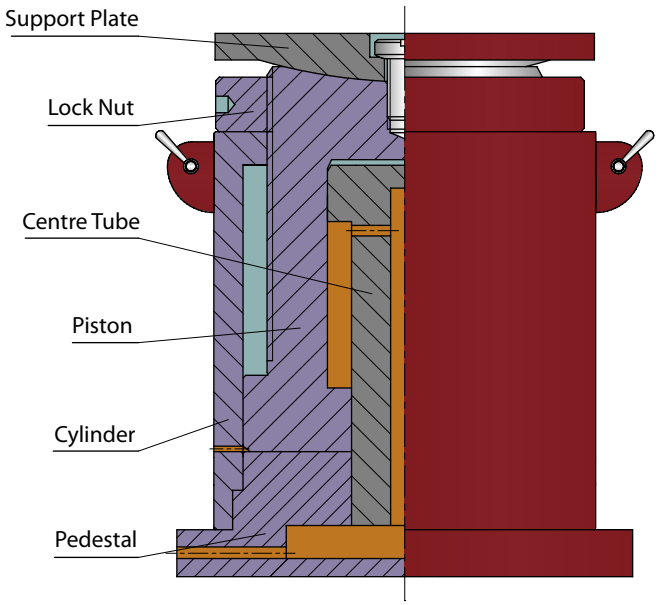
Part Number			SJ60	SJ100	SJ150	SJ200	SJ250	SJ300	SJ400	SJ500	SJ650	SJ900
Capacity		kN	600	1000	1500	2000	2500	3000	4000	5000	6500	6500
Maximum Operating pressure		MPa	50	52	51	53	54	52	53	50	50	55
Stroke		mm	200	200	200	200	200	200	200	200	200	200
Centre-Hole Diameter		mm	Φ55	Φ78	Φ97	Φ110	Φ138	Φ145	Φ175	Φ195	Φ215	Φ280
Piston Area		m^2	12.08×10^{-3}	19.09×10^{-3}	29.37×10^{-3}	37.79×10^{-3}	45.94×10^{-3}	57.73×10^{-3}	76.11×10^{-3}	100.5×10^{-3}	131.90×10^{-3}	165.87×10^{-3}
Reverse Piston Area		m^2	4.08×10^{-3}	5.34×10^{-3}	8.35×10^{-3}	13.05×10^{-3}	28.03×10^{-3}	18.85×10^{-3}	45.95×10^{-3}	47.75×10^{-3}	79.20×10^{-3}	87.26×10^{-3}
Maximum Return Pressure		MPa	< 25									
Block-Out Dimensions	A (Necessary Strand Protrusion)	mm	500	550	550	580	600	650	700	800	850	900
	B	mm	900	900	950	1000	1050	1100	1150	1150	1200	1300
	C	mm	120	150	180	200	220	240	260	290	350	380
Dimension	D	mm	Φ168	Φ214	Φ270	Φ305	Φ344	Φ376	Φ432	Φ495	Φ570	Φ660
	L	mm	345	340	346	360	361	367	379	445	450	583
Weight		kg	38	55	90	132	154	190	243	425	616	1205

Scences of Production

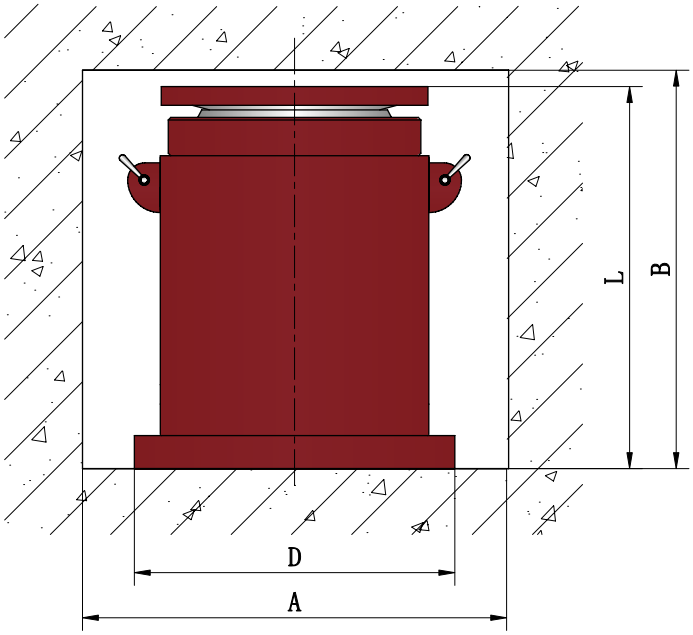
TMG Lifting Jack

Lifting Jacks are widely used in the lifting of bridge girders, formworks, structures, etc. It is also popular with precision relocation work where heavy structures needed to be moved and joined.

Lifting Jack



TMG Lifting Jack Structural Diagram



TMG Lifting Jack Block-Out Dimensions

Technical Data for TMG Lifting Jack

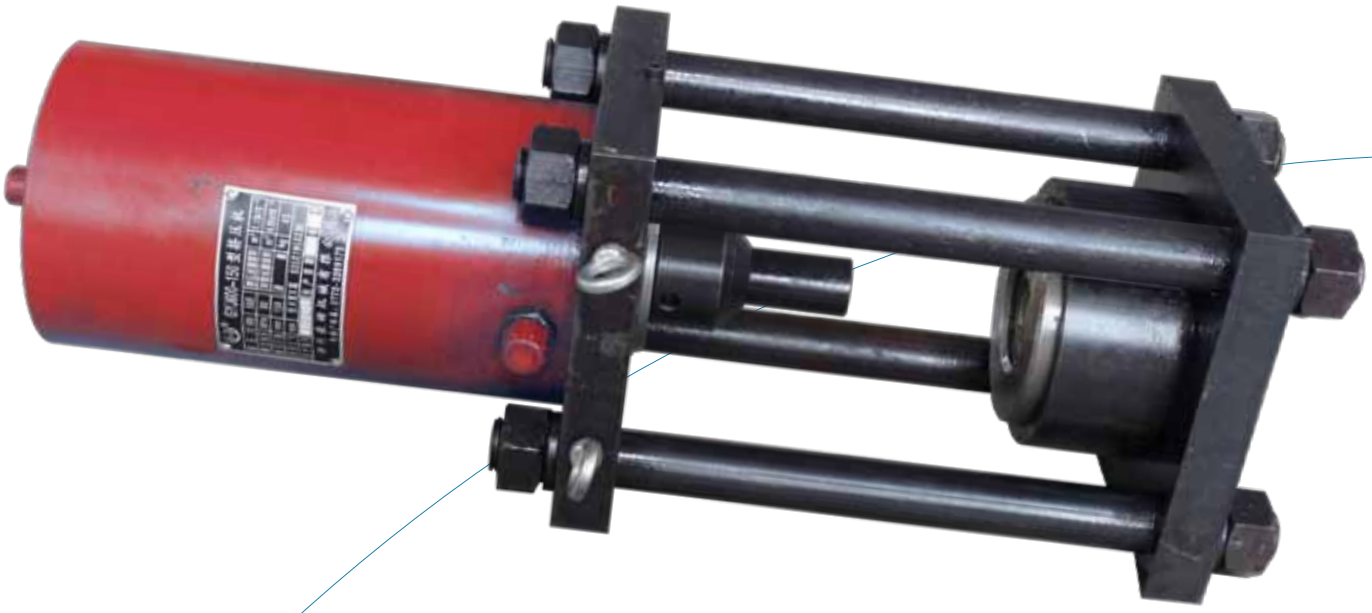
Part Number			LJ250	LJ300	LJ400
Capacity		kN	2500	3000	4000
Maximum Operating Pressure		MPa	49	45	50
Stroke		mm	1000	800	1000
Piston Area		m^2	51.07×10^{-3}	66.02×10^{-3}	80.42×10^{-3}
Maximum Return Pressure		MPa	< 25		
Block-Out Dimensions	A	mm	620	550	580
	B	mm	1505	1265	1495
Dimension	D	mm	Φ310	Φ344	Φ376
	L	mm	1487	1243	1470
Weight		kg	700	800	1140

TMG Lifting Jack under Load Test

Customised Lifting Jacks

TMG Compression Fitting Machine

Compression Fitting Machine is the equipment designed for forming Fixed Anchors (also common known as Dead Anchors). By installing the Compression Fitting onto one end of the Strands, the machine will compress the fitting onto the Strands and lock onto it permanently, thus forming a secure Fixed Anchors.

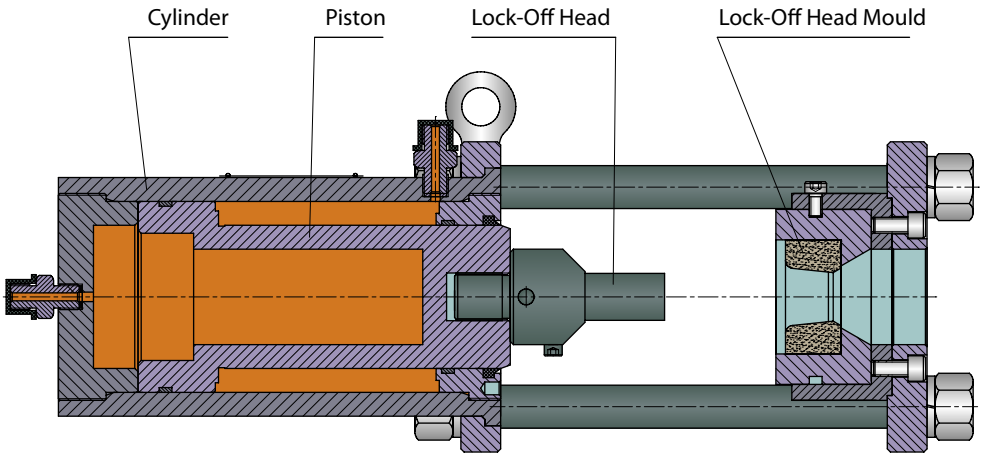


Compression Fitting Machine

Compression Fitting

Strands with Compression Fitting

Technical Drawing for TMG Compression Fitting Machine



TMG Compression Fitting Machine Structural Diagram

Technical Data for TMG Compression Fitting Machine

Part Number	Strands Diameter		Capacity	Maximum Operating Pressure	Stroke	Maximum Return Pressure	Dimension			Weight
	12.70	15.24					Length	Width	Height	
	mm	mm	kN	MPa	mm	MPa	mm	mm	mm	kg
CF60	•	•	565	50	150	< 25	626	195	195	41

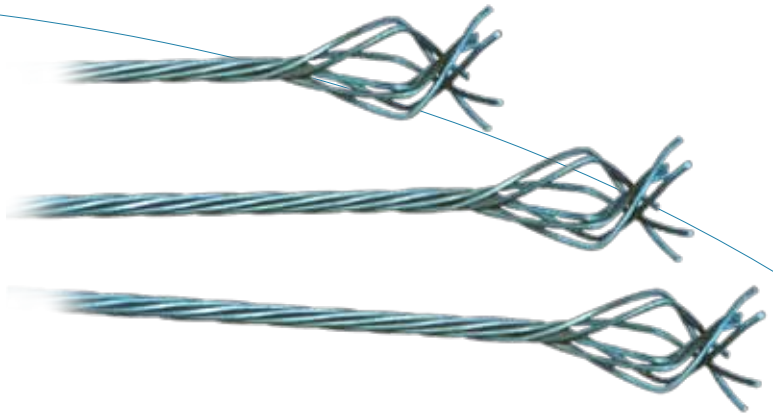
Scenes of Production

Scenes of Production (Stay Cable)

TMG Bond Head Machine

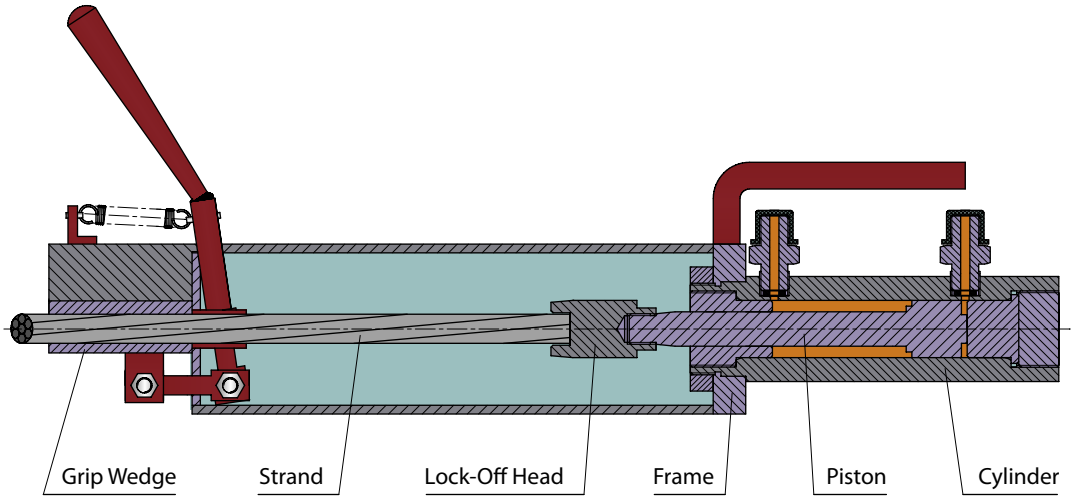
Bond Head Machine is designed for forming bond heads (also commonly known as pear / onion shape heads) which are used for Fixed Anchors (Dead Anchors).

Bond Head Machine



Bond Head

Technical Drawing for TMG Bond Head Machine



TMG Bond Head Machine Structural Diagram

Technical Data for TMG Bond Head Machine

Part number	Capacity	Maximum Operating Pressure	Stroke	Maximum Return Pressure	Dimension			Weight
					Length	Width	Height	
	kN	MPa	mm	MPa	mm	mm	mm	kg
BH30	30	50	70	< 25	535	150	230	15

Scenes of Production

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