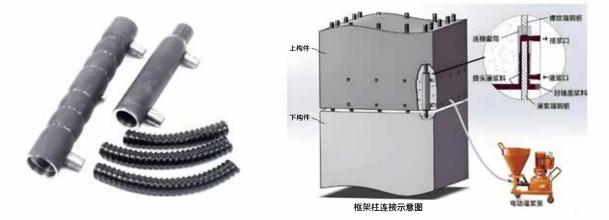
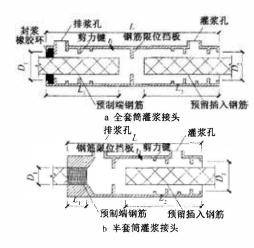
灌浆套筒 DUCTILE LRON GROUT SLEEVE



The grouting sleeve is an innovative method for connecting steel bars, applicable in reinforced concrete structures, steel structures, bridge engineering, and various other fields. Its working principle involves using a specially processed sleeve that combines grouting material with the steel bar. During the connection process, a fast-hardening, non-shrink grouting material is injected, allowing the steel bar and sleeve to bond through the adhesive and mechanical interlocking properties of the materials. This connection method offers several advantages, including reliable performance, broad applicability, and ease of installation.

The principle of grouting sleeve connections primarily relies on high-strength, microexpansion structural mortar that is filled between the steel bar and the sleeve. The confinement effect of the sleeve on the mortar, combined with the mortar's microexpansion characteristics, enhances the bond between the steel bar and the sleeve, effectively transmitting the stress from the steel bar. This connection method does not require overlap or fusion; instead, the steel bar is inserted into the sleeve through openings at both ends to complete the connection. Grouting sleeve connections are categorized into two types based on different grouting methods: full grouting joints and semi-grouting joints.





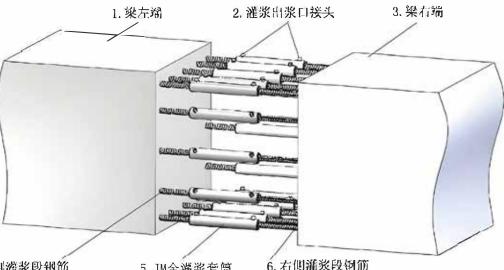
Full grouting sleeve



Half grouting sleeve



The full grouting sleeve is connected to the steel bar through grouting at both ends, while the semi-grouting sleeve is connected to the steel bar via grouting at one end and a mechanical connection at the other end. This connection method is appropriate for the longitudinal reinforcement of vertical structural members, such as prefabricated shear wall components and prefabricated frame columns.

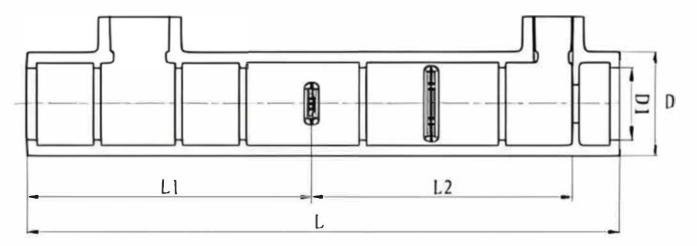


4. 左侧灌浆段钢筋

5. JM全灌浆套筒

The development and application of grouting sleeve connection technology has made up for the shortcomings of traditional steel structure connection methods, such as welding and bolt connections, and provided more choices and conveniences for engineering practice.

The fully grouting joint can match the steel bar diameters: Φ 12mm, Φ 14mm, Φ 16mm, Φ 18mm, Φ 20mm, Φ 22mm, Φ 25mm, Φ 28mm, Φ 32mm, Ф 36mm, Ф 40mm.



Model	D(mm)	D1(mm)	L(mm)	Insertion depth of reinforcement at assembly end	Factory steel bar insertion depth L2(mm)
QCMФ 12F	44	36	250	96~5120	116~5130
QCMФ 14F	46	37.8	280	112~5135	132~5145
QCMФ 16F	48	39.6	310	128~5150	148~5160
QCMФ 18F	50	41.6	350	144~5170	164~5180
QCMФ 20F	52	43.2	370	160~5180	180~5190
QCMФ 22F	54	44	410	176~5200	196~5210
QCMФ 25F	58	46	450	200 ~ 5220	220~5230
QCMФ 28F	62	48~53.4	505	224 ~ 5250	248~5255
QCMФ 32F	66	50 ~ 556	570	256 ~ 5280	276~5290
QCMФ 36F	75	63	650	320	330
QCMФ 40F	95	81	810	400	400

Semi-grouted joints can match the diameter of the steel bars $\Phi 12mm_{\bullet}\Phi 14mm_{\bullet}\Phi 16mm_{\bullet}\Phi 18mm_{\bullet}\Phi 20mm_{\bullet}\Phi 22mm_{\bullet}\Phi 25mm_{\bullet}\Phi 32mm_{\circ}$

Model	D(mm)	D1(mm)	L(mm)	Rebar insertion depth L1(mm)	Rebar connection thread length L2(mm)
QСМФ 12Н	35.6	28	144	96~116	19.5
QСМФ 14Н	38	30	161	112~132	20
QСМФ 16Н	39.8	31.4	177	128~148	22
QСМФ 18Н	41.8	33.4	196	144~164	25
QСМФ 20Н	43.6	35.2	215	160~174	27
QСМФ 22Н	47.5	37.5	235	176 ~ 196	30
QСМФ 25Н	52.4	40.4	265	200~220	35
QСМФ 28Н	60.5	48.5	293	224 ~ 244	39.5
QСМФ 32Н	63	48~53	331	256 ~ 276	45.5

Application



D2: 🔽

