

ABOUT US

Founded in Putian, Fujian, Putian Housheng Import & Export Co., Ltd. is a specialized manufacturer and exporter focusing on automotive chassis spare parts for passenger cars, light-duty and heavy-duty commercial trucks.

Our core product portfolio mainly covers leaf springs, slack adjusters, fastener bolts, various roller bearings and matched aftermarket chassis accessories. We strictly control raw material selection and production craftsmanship, adhering to consistent quality standards to meet OEM and replacement market demands globally.

With years of export experience in auto spare parts industry, we keep stable product cost control and flexible customized production. We serve clients across multiple overseas markets, winning long-term trust via stable lead time, competitive quotation and thoughtful after-sales support. Driven by product optimization, we continuously expand chassis component ranges to satisfy diversified procurement needs from worldwide distributors and repair enterprises.

EQUIPMENT



Why choose HouS auto parts?

	OTHERS	HOUS AUTO PARTS
	Body Material Carbon Steel C45	Ductile Iron QT450-10
	Cover Plate Material thickness on both sides is different	Stable Thickness
	Worm/worm gear material carbon steel:C45	Worm Gear:40Cr Worm shaft:42CrMo 
	Bushing Material Normal steel Q235	Power metallurgy

PRODUCTS INDEX

 MANUAL SLACK ADJUSTER P03-12	 AUTOMATIC SLACK ADJUSTER P13-34	 BRAKE CHAMBER P35-37
 AIR DRYER P38-39	 CLUTCH SERVO P40-42	 LEVELING VALVE P43-44
 GEARBOX VALVE P45-46	 SOLENOID VALVE P47-48	 SHIFT KONB P49-49
 AIR HOSE P50-50	 QUICK COUPLING P51-51	 FITTINGS P52-52

AMERICAN Series Type(A)

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC11001	289858	1 HOLE 28 TEETH	5.5"	1 5/8"	Ø12.7	
JC11002	283411	1 HOLE 37 TEETH	6"	1 5/8"	Ø12.7	
JC11003	278303	2 HOLE 10 TEETH	5",6"	1 1/4"	Ø12.7	
JC11004	286965	2 HOLE 28 TEETH	5",6"	1 1/2"	Ø12.7	
JC11005	288753	2 HOLE 28 TEETH	5.5",6.5"	1 1/2"	Ø12.7	
JC11006	278323	3 HOLE 10 TEETH	5",6",7"	1 1/2"	Ø12.7	
JC11007	288282	3 HOLE 28 TEETH	5",6",7"	1 1/2"	Ø12.7	

AMERICAN Series Type(B)

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC12001	KN55001	1 HOLE 28 TEETH	5.5"	1 1/4"	Ø12.7	
JC12002	KN44041	1 HOLE 37 TEETH	6"	1 5/8"	Ø12.7	
JC12003	KN48001	2 HOLE 10 TEETH	5",6"	1 1/4"	Ø12.7	
JC12004	KN44051	2 HOLE 28 TEETH	5",6"	1 1/2"	Ø12.7	
JC12005	KN44061	2 HOLE 28 TEETH	5.5",6.5"	1 1/2"	Ø12.7	
JC12006	KN47001	3 HOLE 10 TEETH	5",6",7"	1 1/2"	Ø12.7	
JC12007	KN44071	3 HOLE 28 TEETH	5.5",6.5"	1 1/2"	Ø12.7	
JC12008	KN44042	3 HOLE 37 TEETH	5",6",7"	1 5/8"	Ø12.7	

BPW Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC13001	05.174.52.80.0	3 HOLE 10 TEETH	150, 170, 190	1 1/2"	Ø14	
JC13002	05.174.52.43.0	4 HOLE 10 TEETH	120, 150, 180,250	1 1/2"	Ø14	
JC13003	05.174.52.61.0	5 HOLE 10 TEETH	120, 150, 180,220,250	1 1/2"	Ø14	
JC13004	05.174.65.22.0	6 HOLE 10 TEETH	120, 135, 150, 165, 180,250	1 1/2"	Ø14	
JC13005	05.174.65.13.0	7 HOLE 10 TEETH	120, 135, 150, 165, 180, 195,250	1 1/2"	Ø14	
JC13006	05.174.51.10.0	4 HOLE 10 TEETH	127, 152, 178,203	1 1/2"	Ø14	
JC13007	05.174.52.30.0	7 HOLE 10 TEETH	120, 135, 150, 165, 180, 195,250	1 1/2"	Ø14	

BENZ/SCANIA/DAF/VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC14001	343.420.04.38	1 HOLE 26 TEETH	120, 155,310	N42x 1.5x9 H DIN 5480	120-Ø14 155-Ø8 310-Ø12	
JC14002	384.420.75.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	 RH
JC14003	335.420.03.38	1 HOLE 19 TEETH	120	N42x 1.5x9 H DIN 5482	Ø14	
JC14004	345.420.72.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5482	Ø14	 LH
JC14005	345.420.73.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	 RH
JC14006	305.420.00.38	1 HOLE 26 TEETH	115	N42x 1.5x9 H DIN 5480	Ø14	
JC14007	346.420.17.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	 RH
JC14008	346.420.18.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	 LH

BENZ/SCANIA/DAF/VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC14009	346.420.17.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	
JC14010	346.420.18.38	1 HOLE 26 TEETH	145	N42x 1.5x9 H DIN 5480	Ø14	
JC14011	278736	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC14012	278735	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC14013	276517	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC14014	276518	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC14015	278734	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC14016	100014750	5 HOLE 37 TEETH	105, 130, 150, 180,215	1 1/2"	Ø14/16	

BENZ/SCANIA/DAF/VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC14017	6883362	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC14018	6883363	1 HOLE 28 TEETH	165	1 1/2"	Ø12.7	
JC14019	1505.324	2 HOLE 10 TEETH	140, 165	1 1/2"	Ø12.7	
JC14020	1505.325	2 HOLE 10 TEETH	140, 165	1 1/2"	Ø12.7	
JC14021	100101006	1 HOLE 10 TEETH	145	1 1/2"	Ø12.7	

KAMAZ/MAZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC15001	120.3501136	1 HOLE 10 TEETH	102	1 1/2"	Ø12	
JC15002	120.3502336	2 HOLE 10 TEETH	102, 125	1 1/2"	Ø12	
JC15003	500.3501136	2 HOLE 10 TEETH	140	1 1/2"	Ø12	
JC15004	5320.3501136	1 HOLE 10 TEETH	125	1 1/2"	Ø12	
JC15005	5320.3502136	1 HOLE 10 TEETH	145	1 1/2"	Ø12	
JC15006	5320.3502237	1 HOLE 10 TEETH	145	1 1/2"	Ø12	
JC15007	5511.3502136	1 HOLE 10 TEETH	150	1 1/2"	Ø12	
JC15008	5511.3502237	1 HOLE 10 TEETH	150	1 1/2"	Ø12	

KAMAZ/MAZ Series

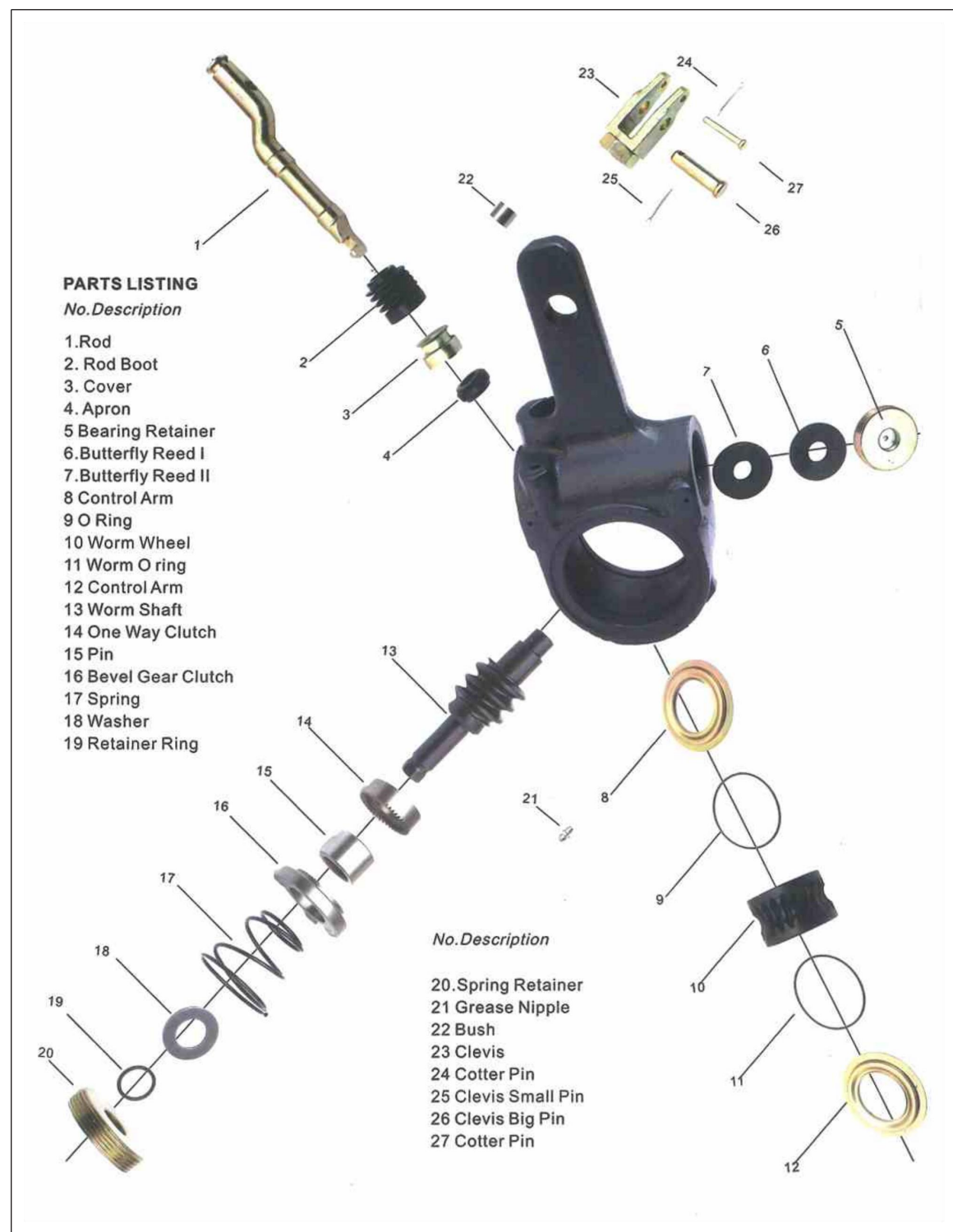
Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC15009	53229.3502136	1 HOLE 10 TEETH	150	1 1/2"	Ø12	
JC15010	53229.3502237	1 HOLE 10 TEETH	150	1 1/2"	Ø12	
JC15011	64221.3501135	1 HOLE 10 TEETH	165	1 1/2"	Ø12	
JC15012	64221.3501136	1 HOLE 10 TEETH	165	1 1/2"	Ø12	
JC15013	64221.3501135-010	1 HOLE 25 TEETH	165	1 1/2"	Ø12	
JC15014	64221.3501136-010	1 HOLE 25 TEETH	165	1 1/2"	Ø12	

TATA Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC16001	215342300124	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16002	215342300125	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16003	257342110177	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16004	257342110178	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16005	264142110117	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC11006	264142110118	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16007	F8366000	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16008	264142110160	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	
JC16009	257342110157	1 HOLE 24 TEETH	140	1 1/2"	Ø12.7	

HINO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC17001	47480-1580	1 HOLE 14 TEETH	152.4	1 1/2"	Ø12	
JC17002	47490-1100	1 HOLE 14 TEETH	152.4	1 1/2"	Ø12	
JC17003	47480-1680	1 HOLE 14 TEETH	150	1 1/2"	Ø12	
JC17004	47480-1670	1 HOLE 14 TEETH	150	1 1/2"	Ø12	
JC17005	47480-1590	1 HOLE 14 TEETH	150.8	1 1/2"	Ø12	
JC17006	47480-1550	1 HOLE 12 TEETH	150.5	1 1/2"	Ø12	
JC17007	47490-1090	1 HOLE 12 TEETH	150.5	1 1/2"	Ø12	
JC17008	47480-1480	1 HOLE 12 TEETH	149	1 1/2"	Ø12	
JC17009	47490-1040	1 HOLE 12 TEETH	149	1 1/2"	Ø12	



AMERICAN Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC21001	065170	10 TEETH	5.5"	1 1/2"	Ø12	
JC21002	065174	28 TEETH	5.5"	1 1/2"	Ø12	
JC21003	065178	37 TEETH	5.5"	1 5/8"	Ø12	
JC21004	065172	10 TEETH	6"	1 1/2"	Ø12	
JC21005	065175	28 TEETH	6"	1 1/2"	Ø12	
JC21006	065179	37 TEETH	6"	1 5/8"	Ø12	
JC21007	065508	10 TEETH	5"	1 1/2"	Ø12	



EUROPEAN GENERATION Series						
Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC22001	72509	1 HOLE 26 TEETH	145	1 1/2"	Ø14	
JC22002	72060	1 HOLE 26 TEETH	145	1 1/2"	Ø14	
JC22003	72061	1 HOLE 26 TEETH	145	1 1/2"	Ø14	
JC22004	72062	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC22005	79351	2 HOLE 14 TEETH	135, 165	1 1/2"	Ø12	
JC22006	72778	5 HOLE 10 TEETH		1 1/2"	Ø16	
JC22007	72875	6 HOLE 10 TEETH		1 1/2"	Ø14	
JC22008	70954	1 HOLE 26 TEETH	145	1 1/2"	Ø14	

EUROPEAN GENERATION Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC22009	79186	1 HOLE 26 TEETH	145	1 1-2"	Ø14	
JC22010	79223	1 HOLE 26 TEETH	215	1 1-2"	Ø14	
JC22011	79224	1 HOLE 26 TEETH	215	1 1-2"	Ø14	
JC22012	79305	1 HOLE 28 TEETH	160	1 1-2"	Ø14	
JC22013	79336	2 HOLE 10 TEETH	165	1 1-2"	Ø14	
JC22014	79569	1 HOLE 10 TEETH	145	1 1-2"	Ø14	
JC22015	79443	1 HOLE 10 TEETH	165	1 1-2"	Ø16	
JC22016	79641	1 HOLE 10 TEETH		1 1-2"	Ø12.7	

BENZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC23001	70706	1 HOLE 26 TEETH	115	N42* 1.5*9H DIN5480	Ø14	
JC23002	70775	1 HOLE 26 TEETH	130	N42* 1.5*9H DIN5480	Ø14	
JC23003	72056	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23004	72060	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23005	72061	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23006	80030	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23007	80183	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23008	72213	1 HOLE 26 TEETH	130	N42* 1.5*9H DIN5480	Ø14	

BENZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC23009	80226	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23010	72810	1 HOLE 26 TEETH	130	N42* 1.5*9H DIN5480	Ø14	
JC23011	80008	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23012	80010	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23013	80011	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	
JC23014	80014	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN5480	Ø14	

MAN Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC24001	72208	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24002	80176	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24003	79205	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24004	79210	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24005	79211	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24006	79212	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24007	79726	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	
JC24008	70180	1 HOLE 26 TEETH	145	N42* 1.5*9H DIN 5480	Ø14	

MAN Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC24009	80181	1 HOLE 26 TEETH	145	N42* 1.5*9 H DIN 5480	Ø14	
JC24010	72731	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24011	72732	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24012	79202	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24013	79216	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24014	79217	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24015	79218	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	
JC24016	79225	1 HOLE 26 TEETH	130	N42* 1.5*9 H DIN 5480	Ø14	

VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC25001	70977	1 HOLE 10 TEETH	152	1 1/2"	Ø12.7	
JC25002	70978	1 HOLE 10 TEETH	152	1 1/2"	Ø12.7	
JC25003	72726	1 HOLE 10 TEETH	152	1 1/2"	Ø12.7	
JC25004	72670	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25005	72671	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25006	72784	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25007	72785	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25008	72904	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	

VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC25009	72914	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25010	79677	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25011	79678	1 HOLE 10 TEETH	165	1 1/2"	Ø12.7	
JC25012	72672	1 HOLE 10 TEETH	140	1 1/2"	Ø12.7	
JC25013	72673	1 HOLE 10 TEETH	140	1 1/2"	Ø12.7	
JC25014	72678	1 HOLE 10 TEETH	140	1 1/2"	Ø12.7	
JC25015	79428	1 HOLE 10 TEETH	140	1 1/2"	Ø12.7	
JC25016	72717	1 HOLE 10 TEETH	127	1 1/2"	Ø12.7	

VOLVO Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC25017	72718	1 HOLE 10 TEETH	127	1 1/2"	Ø12.7	
JC25018	72723	1 HOLE 10 TEETH	134	1 1/2"	Ø12.7	
JC25019	72724	1 HOLE 10 TEETH	134	1 1/2"	Ø12.7	
JC25020	79691	1 HOLE 10 TEETH	179	1 1/2"	Ø12.7	
JC25021	79692	1 HOLE 10 TEETH	179	1 1/2"	Ø12.7	
JC25022	79160	6 HOLE 10 TEETH		1 1/2"	Ø12.7	

SCANIA Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC26001	72654	2 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26002	72660	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26003	72661	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26004	72662	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26005	72663	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26006	72664	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26007	72744	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26008	72745	1 HOLE 10 TEETH	165	1 1/2"	Ø16	

SCANIA Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC26009	72825	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26010	72826	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26011	72951	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26012	72953	2 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26013	72954	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26014	72955	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26015	72963	1 HOLE 10 TEETH	165	1 1/2"	Ø16	
JC26016	72730	1 HOLE 10 TEETH	130	1 1/2"	Ø16	

SCANIA Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC26017	72654	1 HOLE 10 TEETH	130	1 1/2"	Ø16	
JC26018	72654	1 HOLE 10 TEETH	130	1 1/2"	Ø16	



RENAULT Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC27001	72315	1 HOLE 29 TEETH	160	1 1/2"	Ø14	
JC27002	79288	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27003	79289	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27004	79294	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27005	79295	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27006	79296	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27007	79297	1 HOLE 27 TEETH	160	1 1/2"	Ø14	
JC27008	72600	1 HOLE 33 TEETH	150	1 1/2"	Ø14	

RENAULT Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC27009	79011	1 HOLE 27 TEETH	150	1 1/2"	Ø14	
JC27010	79013	1 HOLE 27 TEETH	175	1 1/2"	Ø14	
JC27011	79014	1 HOLE 27 TEETH	175	1 1/2"	Ø14	
JC27012	79309	1 HOLE 27 TEETH	175	1 1/2"	Ø14	
JC27013	72601	1 HOLE 33 TEETH	127	1 1/2"	Ø14	
JC27014	79019	1 HOLE 27 TEETH	140	1 1/2"	Ø14	
JC27015	70619	1 HOLE 27 TEETH	190	BNA 227	Ø14	
JC27016	70620	1 HOLE 27 TEETH	190	BNA 227	Ø14	

DAF Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC28001	72524	1 HOLE 10 TEETH	140	1 1/2"	Ø14	
JC28002	72525	1 HOLE 10 TEETH	140	1 1/2"	Ø14	
JC28003	72542	1 HOLE 10 TEETH	165	1 1/2"	Ø14	
JC28004	72543	1 HOLE 10 TEETH	165	1 1/2"	Ø14	
JC28005	72609	1 HOLE 10 TEETH	140	1 1/2"	Ø14	
JC28006	72679	1 HOLE 10 TEETH	140	1 1/2"	Ø14	
JC28007	72690	1 HOLE 10 TEETH	140	1 1/2"	Ø14	
JC28008	72704	1 HOLE 10 TEETH	145	1 1/2"	Ø14	

DAF Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC28009	72705	1 HOLE 10 TEETH	145	1 1/2"	Ø14	
JC28010	79179	1 HOLE 10 TEETH	145	1 1/2"	Ø14	
JC28011	79180	1 HOLE 10 TEETH	145	1 1/2"	Ø14	

BPW/KAMAZ/MAZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC29101	72974	1 HOLE 10 TEETH	180	1 1/2"	Ø14	
JC29102	72882	2 HOLE 10 TEETH	135, 165	SAE1 1/2" 10C	Ø14	
JC29103	72881	2 HOLE 10 TEETH	135, 165	SAE1 1/2" 10C	Ø14	
JC29104	80019	6 HOLE 10 TEETH	120, 135, 150, 165, 180,250	SAE1 1/2" 10C	Ø14	
JC29105	80039	1 HOLE 10 TEETH	145	1 1/2"	Ø14	
JC29106	80040	1 HOLE 10 TEETH	145	1 1/2"	Ø14	
JC29107	79258	1 HOLE 10 TEETH	165	1 1/2"	Ø14	
JC29108	79259	1 HOLE 10 TEETH	165	1 1/2"	Ø14	

BPW/KAMAZ/MAZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC29109	79260	1 HOLE 10 TEETH	165	1 1/2"	Ø14	
JC29110	79261	1 HOLE 10 TEETH	165	1 1/2"	Ø14	
JC29111	80180	1 HOLE 26 TEETH	145	1 1/2"	Ø14	
JC29112	80181	1 HOLE 26 TEETH	145	1 1/2"	Ø14	
JC29113	80301	1 HOLE 25 TEETH	170	1 1/2"	Ø14	
JC29114	80185	1 HOLE 25 TEETH	145	1 1/2"	Ø14	
JC29201	54321-3502136	1 HOLE 25 TEETH	150	SAE 1 1/2" 10C	Ø12	
JC29202	64226-3502135	1 HOLE 10 TEETH	150	SAE 1 1/2" 10C	Ø12	

BPW/KAMAZ/MAZ Series

Part No.	Cross Ref	Technical				Image
		Style	Armlength	Spline	Bushing	
JC29203	103-3501136	2 HOLE 10 TEETH	125, 150	SAE 1 1/2" 10C	Ø12	
JC29204	PT-40-06	2 HOLE 10 TEETH	125, 150	SAE 1 1/2" 10C	Ø12	
JC29205	PT-40-07	2 HOLE 10 TEETH	125, 150	SAE 1 1/2" 10C	Ø12	
JC29206	PT-40-08	1 HOLE 10 TEETH	150	SAE 1 1/2" 10C	Ø12	
JC29207	PT-40-09	1 HOLE 10 TEETH	150	SAE 1 1/2" 10C	Ø12	

BRAKE CHAMBER

Part No.	Cross Ref	Technical Daitails	Vehicies	Image
JC31001	T 3030DD	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm	AMERICAN TRUCK	
JC31002	T2424DD	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC31003	T2430DD	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC31004	T2024DD	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC31005	T 1624DD	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC31006	T 3030DD(disc)	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 16 x 1.5 PUSH ROD LENGTH: 15 mm		
JC31007	T2424DD(disc)	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 16 x 1.5 PUSH ROD LENGTH: 15 mm		
JC31008	T 1624DD(disc)	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 16 x 1.5 PUSH ROD LENGTH: 15 mm		

BRAKE CHAMBER

Part No.	Cross Ref	Technical Daitails	Vehicies	Image
JC32001	T 3030DP	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 340mm	BENZ SCANIA DAF VOLVO MAN IVECO	
JC32002	T2430DP	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 340mm		
JC32003	T2424DP	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 285mm		
JC32004	T2024DP	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 285mm		
JC32005	T 1624DP	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 285mm		
JC32006	T 3030DP(disc)	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 15 mm		
JC32007	T2424DP(disc)	STROKE: 64/64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 15 mm		
JC32008	T 1624DP(disc)	STROKE: 57/57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 22/M 16 x 1.5 PUSH ROD LENGTH: 15 mm		

BRAKE CHAMBER

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC33001	T30	STROKE: 64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm	BENZ SCANIA DAF VOLVO MAN IVECO	
JC33002	T24	STROKE: 64 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC33003	T20	STROKE: 57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC33004	T16	STROKE: 57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: M 16 x 1.5 PORT THREAD: M 16 x 1.5/Z-3/8 PUSH ROD LENGTH: 285mm		
JC33005	T24(disc)	STROKE: 57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 16 x 1.5 PUSH ROD LENGTH: 15mm		
JC33006	T20(disc)	STROKE: 57 BOLT CENTRE: 120.7 BOLT THREAD: M 16x 1.5 PUSH ROD THREAD: Ø16 PORT THREAD: M 16 x 1.5 PUSH ROD LENGTH: 15mm		
JC33007		T30/T27/T24/T20/T16/T12 T30L/T27L/T24L/T20L/T16L/T12L		

AIR DRYER

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC41001	432 410 102 0	Port1, 21 = M22* 1.5, Port22 = M 12* 1.5 Cut-off Pressure:8. 1 bar Hert:24v Conn: M27* 1	IVECO, DAF, MAN	
JC41002	432 410 113 0	Port1, 21 = M22* 1.5 Port22 = M 16* 1.5 voss Cut-off Pressure: 12.5bar	DAF, MAN	
JC41003	432 410 115 0	Port1, 21 = M22* 1.5 Port22 = M 16* 1.5 voss Ports 4/23: M16* 1.5 voss Cut-off Pressure: 10.0bar	DAF, MAN	
JC41004	432 420 000 0	Port1, 21 = M22* 1.5 Port22, 4/23 = M 12* 1.5 Cut-off Pressure:8. 1 bar Heat:12v conn: M27* 1	DAF, IVECO, MAN, NEOPLAN	
JC41005	DR31	Ports:Sup+Del M22* 1.5 Heat:24v Cont: M12* 1.5	HINO, ISUZU, DONGFENG	
JC41006	932 500 003 0	Port11 = M22* 1.5, Port12 = M 12* 1.5, Port22: M16* 1.5 VOSS Open Pressure: 23, 24, 25, 26, 27, 28: (720-750)KPa Safety:14.5 +2.5bar Cut-off Pressure: 10.0bar	MERCEDES	
JC41007	932 500 007 0	Port11 = M22* 1.5, Port12 = M 12* 1.5, Port22: M16* 1.5 VOSS Open Pressure: 23, 24, 25, 26, 27, 28: (720-750)KPa Heater:5v Cut-off Pressure: 10.0bar	MERCEDES, DAF	
JC41008	932 500 035 0	Port1 = M22* 1.5 Port21, 22, 23, 24 = M 16* 1.5 DC: 24v Cut-off Pressure:8.5bar	FAW, KING LONG, FOTON, CNHTC	

AIR DRYER

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC41009	932 400 002 0	Heat: 24V Pressure: 12.0 ± 0.2 Bar Ports: 11, 21 = M 22x1.5, 12 = M 12x1.5, 22 = M 16x 1.5VOSS, 24 = M 22x 1.5VOSS	DAF, MERCEDES	
JC41010	ZB4587	Pressure: 10.5 Bar Ports: 1 + 12 + 24 = M 22x1.5, 21 + 23 + 25 = M 16x1.5	IVECO	
JC41011	ZB4578	Pressure: 10.5 Bar Ports: 1 + 12 = M 22x1.5, 21 = M 16x1.5, 22 = M 16x 1.5VOSS, 24 = M 22x 1.5VOSS	DAF	
JC41012	932 510 004 0		SCANIA	
JC41013	065224	Ports: 3/4 " NPT 24V DC	AMERICAN TRUCK	
JC41014	065225	Ports: 1/2 " NPT 12V DC	AMERICAN TRUCK	
JC41015	432 410 020 2	Specification: M 39x1.5 Height: 165mm	SCANIA,VOLVO, RVI, DAF, MAN, MERCEDES	
JC41016	432 410 226 2	Specification: G 1-1/4 Height: 178mm	SCANIA, DAF	

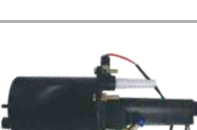
CLUTCH SERVOS

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC51001	970 051 158 0	Dia:108mm Stroke: 70 mm Air: M16* 1.5 Hyd: M14* 1.5	MERCEDES	
JC51002	970 051 131 0	Dia:90mm Stroke: 70 mm Air: M16* 1.5 Hyd: M14* 1.5	MERCEDES	
JC51003	970 051 157 0	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MAN	
JC51004	970 051 174 0	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MAN, MERCEDES	
JC51005	970 051 111 0	Dia:80.5 mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MAN	
JC51006	970 051 431 0	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MERCEDES	
JC51007	970 051 441 0	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MERCEDES	
JC51008	970 150 001 0 970 150 002 0	Dia:115mm Stroke: 85 mm Air: M16* 1.5	MERCEDES	

CLUTCH SERVO

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC51009	VG3208	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	MAN	
JC51010	VG3264 VG3269 VG3288	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	IVECO	
JC51011	VG3286 VG3287	Dia:108mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	IVECO	
JC51012	K013727N 50	Dia:100mm Stroke: 70 mm	VOLVO	
JC51013	622190AM	Dia:100mm Stroke: 70 mm Air: M16* 1.5 Hyd: M14* 1.5	SCANIA	
JC51014	622199AM	Dia:100mm Stroke: 70 mm Air: M16* 1.5 Hyd: M14* 1.5	SCANIA	
JC51015	629276AM	Dia:100mm Stroke: 85 mm Air: M16* 1.5 Hyd: M12* 1.5	VOLVO	
JC51016	628275AM	Dia:100mm Stroke: 85 mm Air: M16* 1.5 Hyd: M14* 1.5	DAF	

CLUTCH SERVO

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC52001	642-03080	Dia:105mm Stroke: 35 mm Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52002	642-03502	Dia:90mm Stroke: 35 mm Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52003	642-03505	Dia:70mm Stroke: 35 mm Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52004	41700-7D000	Dia:105mm Stroke: 75 mm Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52005	642-03803	Dia:90mm Stroke: Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52006	MC828265	Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52007	MC815305	Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	
JC52008	MC815402	Air: M14* 1.5 Hyd: M12* 1.5	JAPANESE RANGE	

LEVELING VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC61001	464 006 000 0	Ports: 1,3,21,22 = M12x1.5	DAF,VOLVO	
JC61002	464 006 002 0	Ports: 1,21,22 = M12x1.5	SCANIA,IVECO, MAN,EVOBUS	
JC61003	464 006 100 0	Ports: 1,21,22 = M12x1.5 12,23 = M16x1.5	SCANIA, DAF, MAN,EVOBUS	
JC61004	464 002 330 0	Ports: 1,21,22 = M12x1.5	IVECO,VOLVO, DAF,MAN,RVI MERCEDES	
JC61005	SV1295	Ports: 4, 11,21 = M12x1.5	SCANIA,VOLVO, DAF,MAN	
JC61006	SV1318	Ports: 4, 11,21 = M12x1.5	DAF,EVOBUS, IVECO,RVI	
JC61007	464 007 001 0	Ports: 1,2 = Φ6mm	DAF,RENAULT, IVECO,MAN	
JC61008	464 007 002 0	Ports: 1,2 = M10x1	DAF,RENAULT, VOLVO	

LEVELING VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC61009	464 007 011 0	Ports: 1,2 = M10x1	DAF, MERCEDES	
JC61010	464 007 010 0	Ports: 1,2 = M10x1	DAF,RENAULT, SCANIA	
JC61011	464 007 007 0	Ports: 1,2 = Φ6mm	RENAULT,VOLVO	
JC61012	464 007 008 0	Ports: 1,2 = Φ6mm	RENAULT	
JC61013	441 050 010 0	M27x 1/ 5-15V DC	DAF,RENAULT, VOLVO	
JC61014	441 050 011 0	BAYONET(DIN)/ 5-15V DC	SCANIA,RENAULT DAF,MAN,MERCEDES	
JC61015	441 050 101 0 441 050 100 0	BAYONET(DIN)72585/ 8-16V DC	SCANIA, DAF,RENAULT	
JC61016	441 050 120 0 441 050 122 0	BAYONET(DIN)72585/ 8-16V DC	IVECO,MERCEDES, SCANIA	

GEARBOX VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC71001	SV3367	Ports: 1 = M12x1.5, 21,22 = M14x1.5	DAF, MERCEDES, MAN	
JC71002	SV3368	Ports: 1 = M12x1.5 21,22 = M14x1.5	MAN, MERCEDES, IVECO	
JC71003	SV3360	Ports: 1,21,22 = M12x1.5	IVECO, MERCEDES	
JC71004	WG2203250001	Ports: 1 = M16x1.5, 21,22 = M14x1.5	HOWO	
JC71005	SV3371	Ports: 1,21,22 = 1/8" NPT	MERCEDES	
JC71006	815 217 061 56	Ports: INSERT 6	MAN	
JC71007	1669297	Ports: 1,2 = M10x1	VOLVO	
JC71008	8172628		VOLVO	

GEARBOX VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC71009	1669324	Ports: 1 = M16x1.5 2 = M10x1	VOLVO	
JC71010	1319557	Ports: 1,2 = M10x1	SCANIA	
JC71011	002606257 002606157	Ports: 1,21,22=Φ9	MERCEDES	
JC71012	1653156	Ports: 1,2 = M10x1	VOLVO	
JC71013	50000673571	Ports: 1,21,22 = M10x1	VOLVO	
JC71014	0012602057	Ports: 1,2,4, 12 = 1/8" NPT	MERCEDES	
JC71015	541L9101	Ports: 1.2.4 = 1/4" NPT	RVI	
JC71016	5710031040	Ports: 1,2,4, 12, 14 = M10x1	MERCEDES	

SOLENOID VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC81001	1457275 1303984	Ports: 4 = M10x1 1,21,22 = M14x1.5	DAF	
JC81002	1379776	Ports: 4 = M10x1 1,21,22 = M14x1.5	DAF	
JC81003	1488083 1334037 1423566	Ports: 11,21,21,22 = M10x1	SCANIA	
JC81004	20775173	Ports: 1 = M10x1	VOLVO	
JC81005	1521247	Ports: 1 = M10x1	VOLVO	
JC81006	1521249	Ports: 1 = M10x1	VOLVO	
JC81007	1653070	Ports: 1 = M10x1	VOLVO	
JC81008	3192384	Ports: 1 = M10x1	VOLVO	

SOLENOID VALVE

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC81009	472 172 600 0	Ports: 1,2 = M12x1.5 24V DC	DAF, MERCEDES, SCANIA, RENAULT	
JC81010	472 172 606 0	Ports: 1,2 = M12x1.5 24V DC	DAF, SCANIA	
JC81011	472 070 639 0	Ports: 1,2 = M16x1.5VOSS 24V DC	MERCEDES	
JC81012	970 260 195 7		MERCEDES	
JC81013		Length:2500mm		
JC81014	441 032 808 0	Length:400mm	DAF, BPW, MERCEDES, SCANIA	
JC81015	441 032 921 2	Length: 1750mm	DAF,IVECO, MAN, SCANIA	
JC81016	441 032814 0	Length: 1400mm	MAN	

SHIFT KONB

Part No.	Cross Ref	Technical Details	Vehicles	Image
JC91001	9415400545 0035454707		MERCEDES ACTROS	
JC91002	4630690070		MERCEDES	
JC91003	1526965 20488056		VOLVO	
JC91004	WG2203250020		HOWO A7	
JC91005	1737377 1919065 1438702		SCANIA	
JC91006	1482997 1485717 1362071		SCANIA	
JC91007	1285260 1833024 4630850000		DAF	
JC91008	1285258 1833030 4630850400		DAF	

AIR HOSE/7 ELECTRIC COIL

Part No.	Technical Details	Image	JIECHUANG Part No.	Technical Details	Image
JC101001	MATERIAL: PA TUBE TYPE: DOUBLE LAYER FITTING THREAD: Z 1/2/M 16/M 22	 Red/Yellow/ Blue/Black	JC101009	MATERIAL: PA/PU PLUG: ALUMINUM 7 PIN WORKING LENGTH: 5.5 M	
JC101002	MATERIAL: PA/PU/PE TUBE TYPE: SINGLE LAYER FITTING THREAD: Z 1/2/M 16/M 22	 Red/Yellow/ Blue/Black	JC101010	MATERIAL: PU PLUG: PLASTIC 7 PIN WORKING LENGTH: 4.5 M	
JC101003	MATERIAL: PA/PU TUBE TYPE: SINGLE LAYER FITTING THREAD: Φ 6/8/10/12/14	 Red/Yellow/ Blue/Black	JC101011	MATERIAL: PU PLUG: PLASTIC 7 PIN WORKING LENGTH: 4.5 M	
JC101004	MATERIAL: PA/PU TUBE TYPE: SINGLE LAYER FITTING THREAD: M 12	 Red/Yellow/ Blue/Black	JC101012	MATERIAL: PU PLUG: PLASTIC 7 PIN WORKING LENGTH: 4.5 M	
JC101005	452 200 211 0 452 200 012 0 (M22x 1.5)		JC101013	ALUMINUM	
JC101006	952 200 221 0 952 200 022 0 (M16x 1.5)		JC101014	ALUMINUM	
JC101007	452 200 212 0 452 200 011 0 (M22x 1.5)				
JC101008	952 200 222 0 952 200 021 0 (M16x 1.5)				

QUICK COUPLING

Part No.	Technical Details	Image	JIECHUANG Part No.	Technical Details	Image
JC111001	Ports: 1/2"NPT		JC111009	Ports: Φ4/6/8/10/12/14/16	
JC111002	Ports: M22x1.5		JC111010	Ports: Φ4/6/8/10/12/14/16	
JC111003	Ports: 1"NPT		JC111011	Ports: Φ4/6/8/10/12/14/16	
JC111004	Ports: M22x1.5		JC111012	Ports: Φ4/6/8/10/12/14/16	
JC111005	Ports: Φ4/6/8/10/12/14/16		JC111013	Ports: Φ4/6/8/10/12/14/16	
JC111006	Ports: Φ4/6/8/10/12/14/16		JC111014	Ports: Φ4/6/8/10/12/14/16	
JC111007	Ports: Φ4/6/8/10/12/14/16		JC101015		
JC111008	Ports: Φ4/6/8/10/12/14/16		JC101016		

FITTINGS

Part No.	Technical Details	Image	JIECHUANG Part No.	Technical Details	Image
JC121001			JC121009		
JC121002			JC121010		
JC121003			JC121011		
JC121004			JC121012		
JC121005			JC121013		
JC121006			JC121014		
JC121007			JC121015		
JC121008			JC121016		