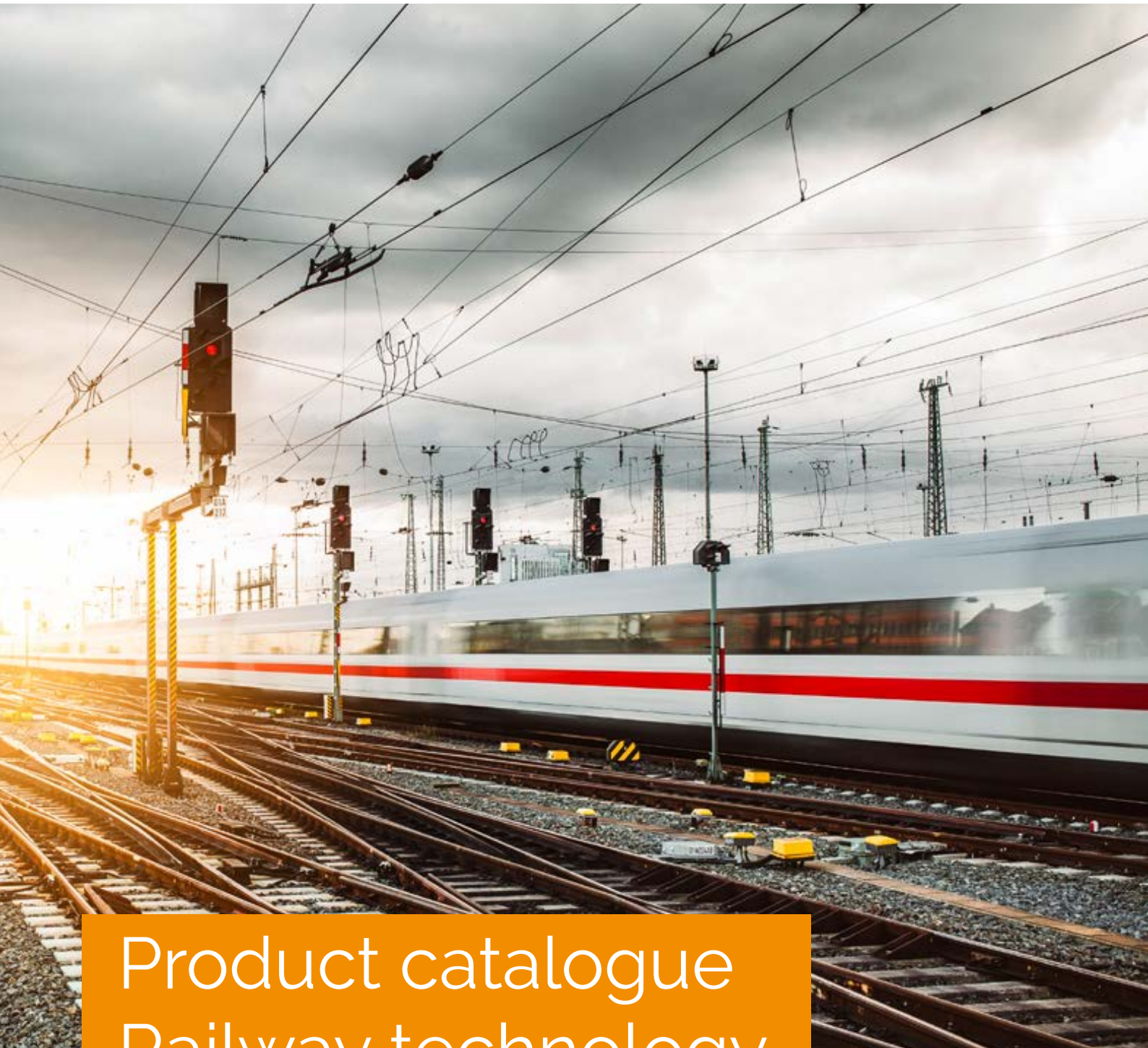




Product catalogue
Railway technology
2025 / 2026



Foreword

Dear customers,

Our company has provided reliable railway technology and high product quality for over 70 years. Since our founding in 1954, we have continuously developed and expanded our product portfolio. We offer you a comprehensive range of railway infrastructure items, rail vehicle components and maintenance services for your railway operations and your line.



This product catalogue gives you an insight into our product range, which we manufacture and stock for you at our Hagen am Teutoburger Wald location, on over 10,500 m² of production space with over 100 highly qualified employees.

In addition to our manufacturing expertise for bearing and transmission parts, control and safety technology, and rail vehicle components, we offer comprehensive repair options for various assemblies and systems. This includes, in particular, the repair of switch drives or the refurbishment of various signals.

With our design department, we also take on your development tasks.
We create replacements for obsolete products and solve new tasks for you.

If you cannot find the product you are looking for in our catalogue, please contact us directly by phone or email – we will help you find a solution.

Kind regards

Dr. H. Hippe, Managing Partner

Gerrit Zilch, Managing Director

Certificates

Systematic quality management. Certified quality and high-level production are at the heart of what we do. The high level of responsibility on us as a producer, repairer, and developer of railway components guides all our processes and specifications. We are fully certified, monitored, and qualified to fulfil this responsibility.



DIN EN 9001:2015 quality management system



Classification of quality capability as a Q1 supplier for railway infrastructure for DB AG



Classification of quality capability as a Q1 supplier for rail vehicle components for DB AG



DIN EN 14001:2015 environmental management system



Internationally recognised sustainability rating by Ecovadis SAS

Certificates

This is a selection of our certificates. You can access all current certificates in the Download area of our website. If you have any questions, please contact us directly.



friedrich-hippe.de/
en/downloads



Bonding of rail vehicles and their components – DIN EN 17460



Welding of steel structures according to DIN EN 1090-2 up to EXC 4 (e.g. for railway infrastructure)



Certification according to DIN EN 15085-2 CL1 Welding of railway vehicles and parts



Welding company certification according to DIN EN ISO 3834-2

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Railway infrastructure

As experts in the field of railway infrastructure, we offer over 6,500 items in this area. We are your full-service provider for switch and track equipment. This includes almost every component in the field of track systems, from large masts in the steel construction sector to equipment and wear items for your switch system.

Advantage of in-house production: Adaptations and changes to standard components are always possible. Contact us!

1.0

Bearing and transmission parts



Bearing and transmission parts

Whether you need heavy-duty bearings or high-precision adjusting and test rods, you've come to the right place if you need high-quality bearing and transmission parts. Reliable and secure.



Operating rods

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Test rods

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Supporting rods

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Lock bars

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Angle levers

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Angle lever connecting rods

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Angle levers interconnecting rods

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Transmission levers

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Bearings

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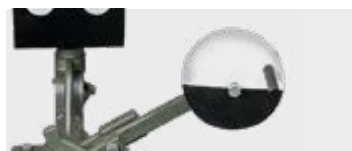
Lateral locking drives

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Bearing blocks

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Cast weights

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Covers for crossing points, rods and closures

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Channels

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Ground anchors

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Sleeper support irons

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Bolts

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Special solutions
on request.

1.1 Operating rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-2217-005	1321608	Operating rod SSt 350mm		Sw 70.0003 (S.7327.03 T.015)	980941
130-1801-001	1299472	Operating rod SSt 480mm	for derailer S 54	Sw 70.0201 (replacement for S.7320.04 T.135)	
130-3002-001	1331841	Operating rod SSt 705mm Lm		Sw 70.0103 (S113.28.8 T.113.648.4)	813497
130-1448-001	1331833	Operating rod SSt 705mm Rm		Sw 70.0103 (replacement for 113 647)	813490
130-2147-001	1319760	Operating rod SSt 880mm		Sw 70.0203 (replacement for S 7320.04 T.136)	957911
130-3732-001	1300881	Operating rod SSt 965mm L	for derailer S54	Sw 70.0202	
130-3716-001	1300838	Operating rod SSt 965mm R	for derailer S54	Sw 70.0202	
130-4051-001	1331807	Operating rod SSt 1060mm Lm		Sw 70.0103 (replacement for S 113.20.3 T 410.2)	901468
130-1598-001	1321633	Operating rod SSt 1200mm		Sw 70.0002 (S 7310.61 T.651)	768863
130-3776-001	1257241	Operating rod SSt 1235mm		Sw 70.0002	
130-1960-001	1321894	Operating rod SSt 1310mm (L)		Sw 70.0007 (replacement for S 7310.19.1 T. 583.1)	955182
130-1960-002	1321298	Operating rod SSt 1310mm (R)		Sw 70.0007 (replacement for S 7310.19.1 T. 575.1)	117491
130-0074-001	1321589	Operating rod SSt 1375mm		Sw 70.0001 (replacement for 7310.511)	117483
130-3591-001	1219577	Operating rod SSti 1375mm		Sw 70.0050	
130-3546-040	1217521	Operating rod SSt 1380mm		Sw 70.0002	
130-3221-001	1321873	Operating rod SSt 1380mm-1		Sw 70.0009 (S7317.05 T015)	828319
130-1792-001	1321634	Operating rod SSt 1380mm-2	EKW 54-190	Sw 70.0004 (replacement for S 7310.26 T.831)	814018
130-0717-001	1321622	Operating rod SSt 1410mm		Sw 70.0001	117494
130-3900-001	1321865	Operating rod SSt 1420mm		Sw 70.0009	117482
130-2121-001	1321590	Operating rod SSt 1430mm		Sw 70.0001 (replacement for 7310.560)	982646
130-0615-002	1321570	Operating rod SSt 1445mm		Sw 70.0001 (replacement for 7310.588)	117495
130-4066-001	1312008	Operating rod SSt 1545mm		Sw 70.0013	

1.1 Operating rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-4528-020	1219576	Operating rod SSt 1555mm		Sw 70.0001	
130-3545-040	1219578	Operating rod SSti 1555mm		Sw 70.0050	
130-3497-001	1331832	Operating rod SSt 1560mm		Sw 70.0101 (S 116.06 T.051)	1171542
130-2929-001	1321641	Operating rod SSt 1600mm		Sw 70.0002 (replacement for S 7310.61 T.874)	937884
130-2899-001	1331831	Operating rod SSt 1660mm		Sw 70.0101 (S 116.03.02 T.050.1)	832248
130-0551-001	1321606	Operating rod SSt 1765mm		Sw 70.0001 (S7310.61 T.518)	117485
130-3257-001	1323528	Operating rod SSt 1780mm		Sw 70.0008	956349
130-2979-001	1366889	Operating rod SSt 1790mm		Sw 70.0001 (replacement for 7310.544)	1173970
130-3948-002	1331808	Operating rod SSt 1840mm Lm		Sw 70.0104	
130-3948-001	1336589	Operating rod SSt 1840mm Rm		Sw 70.0104	
130-0953-003	1319795	Operating rod SSt 2245mm		Sw 70.0203 (replacement for S 7320.04 T.134)	554042
130-1919-001	789229	Operating rod SSt 2345mm		Sw 70.0001 (S 7310.61 T.514)	
130-3192-001	1321855	Operating rod SSt 2350mm		Sw 70.0009 (S 7317.05 T.018)	1160560
130-3266-001	1321901	Operating rod SSt 2390mm		Sw 70.0009 (S7317.05 T017)	1160559
130-3679-003	1319241	Operating rod SSt 2645mm	for derailer S 49 / 54	Sw 70.0203 (replacement for S 7320.04 T.137)	
130-3227-001	1321609	Operating rod SSt 2975mm		Sw 70.0005 (S7310.26 T870)	875730
130-3228-001	1321643	Operating rod SSt 3035mm		Sw 70.0005 (S7310.26 T871)	875731
130-3226-001	1321610	Operating rod SSt 3090mm		Sw 70.0005 (S7310.26 T.869)	875729
130-2379-001	1343919	Operating rod SSt 3290mm		Sw 70.0001 (S 7310.61 T.945)	1104484
130-2365-001	1104485	Operating rod SSt 3710mm		Sw 70.0001 (S 7310.61 T.946)	
130-3607-001	1319195	Operating rod SSt 4115mm		Sw 70.0014	
130-3795-001	1329066	Operating rod SSt 4127mm		Sw 70.0015	
130-3628-001	1311987	Operating rod SSt 5800mm		Sw 70.0012	

1.2 Test rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3779-001	1252435	Test rod PSt 435mm R		Sw 71.0011	915798
130-3780-001	1252436	Test rod PSt 435mm L		Sw 71.0011	
130-1974-002	01323355	Test rod PSt 554mm R		Sw 71.0006 (replacement for S 7310.68 T.804)	
130-4590-001	1249195	Test rod PSt 555-1 short		Sw 71.0008	1121452
130-1906-002	01322948	Test rod PSt 555mm		Sw 71.0001 (S 7310.101 T.753)	
130-1847-003	01322960	Test rod PSt 555mm L		Sw 71.0003 (S 7310.66 T.792 (L))	
130-3803-001	01322974	Test rod PSt 555mm R		Sw 71.0003	915791
130-2218-003	01322985	Test rod PSt 590mm L		Sw 71.0005 (replacement for S.7327.01 T.003)	1138744
130-1958-001	01322991	Test rod PSt 590mm		Sw 71.0001 (replacement for S7310.101 T.754)	1121453
130-2217-006	01323011	Test rod PSt 590mm R		Sw 71.0005 (replacement for S.7327.01 T.001)	1138743
130-1904-002	01322908	Test rod PSt 730mm		Sw 71.0002 (replacement for 7310.775)	1121576
130-3546-050	1217522	Test rod PSt 735mm R	mech. remote-controlled, short, DKW 54-190	Sw 71.0003	1121577
130-3547-060	1217523	Test rod PSt 735mm L	mech. remote-controlled, short, DKW 54-190	Sw 71.0003	
130-3773-001	1219579	Test rod PSt 735mm		Sw 71.0001	
130-2071-001	01322949	Test rod PSt 760mm		Sw 71.0002 (replacement for 7310.776)	1121579
130-2072-001	01322909	Test rod PSt 785mm		Sw 71.0002 (replacement for S7310.104 T.780)	832246
130-2892-001	832246	Test rod PSt 835mm Rm	mech. remote-controlled	Sw 71.0301 (S116.01 T.001.1)	
130-3224-001	832272	Test rod PSt 835mm Lm	mech. remote-controlled	Sw 71.0301 (S116.01.4 T.002.1)	
130-2186-001	01323001	Test rod PSt 945mm		Sw 71.0001	1121454
130-4172-001	01323337	Test rod PSt 954mm L		Sw 71.0006	956811
130-2930-002	01322950	Test rod PSt 955mm Left		Sw 71.0003 (replacement for S 7310.66 T.876 (L))	

1.2 Test rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-2930-001	01322983	Test rod PSt 955mm R		Sw 71.0003 (replacement for S 7310.66 T.875 (R))	939810
130-3112-001	1366865	Test rod PSt 988mm	DW 49-190, ZV remote	Sw 71.0001 (replacement for S.7310.101 T.590)	1174002
130-1870-001	01323356	Test rod PSt 1555mm R		Sw 71.0006 (replacement for S 7310.68 T.806)	814022
130-1871-001	01323357	Test rod PSt 1555mm L		Sw 71.0006 (replacement for S 7310.68 T.807)	814023
130-3338-001	1252438	Test rod PSt 1595mm	for DKW 49/54-190 (120 mm shortened)	Sw 71.0102	
130-3623-001	01320323	Test rod PSt 1700mm		Sw 71.0210	
130-3804-001	01323309	Test rod PSt 1715mm R		Sw 71.0102	915768
130-1906-003	01323328	Test rod PSt 1715mm		Sw 71.0100 (replacement for 7310.747)	1121593
130-3805-001	01323330	Test rod PSt 1715mm L		Sw 71.0102	915790
130-3801-001	01323358	Test rod PSt 1735mm L		Sw 71.0106	1138746
130-1907-002	01323363	Test rod PSt 1765mm		Sw 71.0107 (replacement for S7310.72 T.734)	1165795
130-3620-001	1298065	Tester rod Pst 1780-1		Sw 71.0107	
130-1959-001	01323346	Test rod PSt 1815mm		Sw 71.0100 (replacement for S7310.110 T.741)	1121594
130-3546-070	1217524	Test rod PSt 1895mm R		Sw 71.0102	
130-3547-080	1217525	Test rod PSt 1895mm L		Sw 71.0102	
130-3774-001	1219580	Test rod PSt 1895 mm		Sw 71.0100	
130-3878-001	01323353	Test rod PSt 1900 mm		Sw 71.0101 (PSt 1900)	1121597
130-3504-006	01323347	Test rod PSt 1940mm		Sw 71.0101 (S 7310.112 T.768)	1121598
130-3578-001	1298044	Test rod PSt 1955mm		Sw 71.0101	
130-2073-001	01323335	Test rod PSt 1970mm		Sw 71.0101 (replacement for 7310.769 3)	1160979
130-3802-001	01323338	Test rod PSt 2000mm		Sw 71.0101	1121600
130-2074-001	01323329	Test rod PSt 2045mm		Sw 71.0101 (replacement for 7310.7711)	
130-3624-001	01320273	Test rod PSt 2060mm		Sw 71.0211	

1.2 Test rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-2187-001	01323308	Test rod PSt 2115mm		Sw 71.0100	1121595
130-2931-001	01323310	Test rod PSt 2115mm R		Sw 71.0102 (replacement for S 7310.66.8 T.877 (R))	939812
130-4414-001	1302207	Test rod PSt 2165mm R		Sw 71.0206	
130-4114-001	01323364	Test rod PSt 2165mm		Sw 71.0107	1165799
130-3789-001	01323339	Test rod PSt 2340mm		Sw 71.0112	1170763
130-3627-001	1307741	Test rod PSt 2477 mm		Sw 71.0113	
130-3792-001	01322315	Test rod PSt 2650mm		Sw 71.0001	
130-4320-001	1290644	Test rod PSt 2940mm Rm		Sw 71.0403	
130-3791-001	01322257	Test rod PSt 3795mm		Sw 71.0100	
130-4142-001	01323359	Test rod PSt 4340mm R		Sw 71.0103	915819
130-4141-001	01323360	Test rod PSt 4340mm L		Sw 71.0103	915820
130-4144-001	01323340	Test rod PSt 4380mm R		Sw 71.0103	
130-3605-001	01319155	Test rod PSt 4510mm		Sw 71.0212	
130-3606-001	01319163	Test rod PSt 4870mm		Sw 71.0213	
130-3698-001	01311994	Test rod PSt 5010mm		Sw 71.0014	
130-3635-001	01311968	Test rod PSt 6176mm		Sw 71.0115 (PSt 6176)	

1.3 Supporting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-4232-001	1331780	Supporting rod BSt 420mm	with 2x universal joint	Sw 75.0006	
130-0257-002	1329053	Supporting rod BSt 510mm	with 2x universal joint	Sw 75.0006	114439
130-0256-002	1331556	Supporting rod BSt 600mm	with 2x universal joint	Sw 75.0006	114438
130-2849-001	1331805	Supporting rod BSt 750mm	with universal joint	Sw 75.0016	978113
130-0255-003	1331518	Supporting rod BSt 790mm		Sw 75.0007	114434
130-0825-001	1331563	Supporting rod BSt 790-1 KG		Sw 75.0008	114437
130-4081-001	1539128	Supporting rod BSt 825mm		Sw 75.0036	
130-4231-001	1331820	Supporting rod BSt 910mm	with 2x universal joint	Sw 75.0006	
130-3498-001	1252431	Supporting rod BSt 978mm		Sw 75.0020	
130-2818-001	1122892	Supporting rod BSt 990mm		Sw 75.0012	
130-4069-001	1336653	Supporting rod BSt 990-2R		Sw 75.0026	
130-3688-001	1319793	Supporting rod BSt 990-3L		Sw 75.0028	
130-1072-001	1331710	Supporting rod BSt 1000mm	with universal joint	Sw 75.0001 (replacement for S 119.02.6 T 023.4)	816955
130-3044-001	958768	Supporting rod BSt 1000mm		Sw 75.0023	
130-3043-001	1331764	Supporting rod BSt 1015mm	with universal joint	Sw 75.0017	958830
130-2396-001	1331772	Supporting rod BSt 1035mm		Sw 75.0006	902270
130-1617-001	1331773	Supporting rod BSt 1070mm		Sw 75.0005	970412
130-4230-001	1331698	Supporting rod BSti 1080mm insulated		Sw 75.0011	
130-3109-001	1223276	Supporting rod BSt 1190mm		Sw 75.0001	
130-4235-001	1331574	Supporting rod BSt 1205mm		Sw 75.0003	114621
130-2894-001	1331170	Supporting rod BSt 1205-1	for locally installed derailler	Sw 75.0024 (replacement for S7320.04. Part 160.1)	968966
130-3597-001	1135964	Supporting rod BSt 1260mm		Sw 75.0001	816956
131-0660-001	1331562	Supporting rod BSt 1340mm		Sw 75.0007	114435
130-0765-002	1331500	Supporting rod BSt 1340-1 KG		Sw 75.0008 (replacement for 633.114.1)	114436
130-4159-001	1335930	Supporting rod BSt 1375mm	with universal joint	Sw 75.0001	966084
130-2471-001	1331204	Supporting rod BSt 1390mm		Sw 75.0013	957912
130-3941-001	1336674	Supporting rod BSt 1790mm	with universal joint	Sw 75.0035	

1.3 Supporting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3053-002	1335965	Supporting rod BSt 1970mm		Sw 75.0001	966085
130-1175-001	1331775	Supporting rod BSti 2740mm with eyelet		Sw 75.0014 (replacement for S 7320.04 Part 130)	554037
130-1078-001	1331197	Supporting rod BSt 2750mm with eyelet		Sw 75.0012 (replacement for S7320.04 T.132)	554040
130-2590-001	1331238	Supporting rod BSt 2750-1		Sw 75.0013 (replacement for S7320.04 T.163)	1122899
130-2602-001	1331524	Supporting rod BSt 2750-2		Sw 75.0027	1122900
130-3775-001	1252433	Supporting rod BSt 2765mm		Sw 75.0022	
130-4228-001	1331697	Supporting rod BSti 2800mm insulated, with eyelet		Sw 75.0010	
130-3821-001	1319792	Supporting rod BSt 2900mm	with universal joint	Sw 75.0033	
130-1372-001	1131725	Supporting rod BSt 2935mm with eyelet		Sw 75.0004 (replacement for S 225.012 T.078.2)	114622
130-4227-001	1331730	Supporting rod BSti 2935mm with eyelet		Sw 75.0015	
130-2816-001	1370049	Supporting rod BSt 3000mm	Locally installed derailler	Sw 75.0025	1122744
130-3679-005	1331244	Supporting rod BSt 3150mm with eyelet		Sw 75.0012 (replacement for S7320.04 T.133)	962137
130-3689-001	1315915	Supporting rod BSt 3170mm	with universal joint	Sw.75.0001	
130-3616-001	1315914	Supporting rod BSt 6235mm		Sw 75.0032	

1.4 Lock bars



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-4052-001	1380421	Lock bar RSt 555mm L		Sw 76.0014	
130-3100-001	1222689	Lock bar RSt 595mm		Sw 76.0002	
130-3101-001	1222711	Lock bar RSt 595mm L		Sw 76.0003	
130-2406-001	1102017	Lock bar RSt 610mm		Sw 76.0015 (replacement for 408068)	
130-3766-001	1336545	Lock bar RSt 730mm		Sw 76.0011	
130-4564-001	1229518	Lock bar RSt 835mm		Sw 76.0007 (replacement for 044571)	
130-2971-001	1139923	Lock bar RSt 885mm R		Sw 76.0012	
130-2972-001	1139922	Lock bar RSt 885mm L		Sw 76.0012	
130-4004-001	1375859	Lock bar RSt 910-1L		Sw 76.0013	
130-4021-001	1246296	Lock bar RSt 1635mm		Sw 76.0001	
130-3102-001	1222712	Lock bar RSt 1758mm		Sw 76.0102	
130-3763-001	1247947	Lock bar RSt 1910mm L		Sw 76.0005	
130-4044-001	1247948	Lock bar RSt 1910mm R		Sw 76.0006	
130-4273-001	1375912	Lock bar RSt 2050mm L		Sw 76.0112	
130-4296-001	1375925	Lock bar RSt 2050mm R		Sw 76.0112	
130-4277-001	1246311	Lock bar RSt 2060mm L		Sw 76.0106	
130-4299-001	1229520	Lock bar RSt 2060mm R		Sw 76.0106	
130-3942-001	1308445	Lock bar RSt 2740mm		Sw 76.0008	
130-4506-001	1246300	Lock bar RSt 2790mm R		Sw 76.0100	
130-3762-001	1248081	Lock bar RSt 3075mm		Sw 76.0105	
130-3943-001	1308409	Lock bar RSt 3895mm R		Sw 76.0107	

1.5 Angle levers



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3784-001	1321226	Angle lever with protective box WH 220	Protective box with sealing brushes	Sw 65.0100	
130-3883-001	1321256	Angle lever with protective box WH 220R	Protective box with sealing brushes	Sw 65.0101	
130-3863-001	1321254	Angle lever with protective box WH 220L	Protective box with sealing brushes	Sw 65.0102	
130-3175-001	1321263	Angle lever WH 220R-1 with protective box cpl	Protective box with sealing brushes	Sw 65.0103	
130-3176-001	1321251	Angle lever WH 220L-1 with protective box cpl	Protective box with sealing brushes	Sw 65.0104	
130-3970-001	1321234	Angle lever WH 180 m protective box cpl	Protective box with sealing brushes	Sw 65.0105	
130-3178-001	1321242	Angle lever WH 180-1 m protective box cpl	Protective box with sealing brushes	Sw 65.0106	
130-3808-001	1321059	Angle lever with protective box WH 150	Protective box with sealing brushes	Sw 65.0107	
130-3832-001	1321233	Angle lever with protective box complete WH150-1	Protective box with sealing brushes	Sw 65.0108	
130-3517-001	1321249	Angle lever with protective case complete WH 125	Protective box with sealing brushes	Sw 65.0109	
130-3857-001	1321257	Angle lever with protective box WH 125-1	Protective box with sealing brushes for double rods EH-fb	Sw 65.0110	
130-3744-001	1321284	Angle lever WH 125-2 m protective box cpl.	Protective box with sealing brushes	Sw 65.0111	
130-3971-001	1321321	Angle lever WH 105 m protective box cpl	Protective box with sealing brushes	Sw 65.0112	
130-3788-001	1321308	Angle lever WH 105-21m protective box cpl.	Protective box with sealing brushes	Sw 65.0113	
130-3783-001	1321216	Angle lever WH 100 m protective box cpl.	Protective box with sealing brushes	Sw 65.0114	
130-2525-002	1320258	Angle lever with protective box WH 130	Protective box with sealing brushes	Sw 65.0115	
130-3786-001	1321262	Angle lever with protective box WH 130-1	Protective box with sealing brushes	Sw 65.0116	
130-4183-001	1387330	Angle lever with protective box WH 220L-2	Protective box with sealing brushes	Sw 65.0117	
130-3058-001	1186156	Angle lever with protective box WH 220R VS		Sw 65.0130	
130-3831-001	1321317	Angle lever with protective box WH 220R VS	Double rod (closing threshold)	Sw 65.0130	
130-3850-001	1321280	Angle lever with protective box WH 220L VS	Protective box with sealing brushes	Sw 65.0131	

1.5 Angle levers



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3973-001	1321334	Angle lever WH220R VS-1 protective box cpl	Protective box with sealing brushes	Sw 65.0132	
130-3974-001	1321325	Angle lever WH220L VS-1 protective box cpl	Protective box with sealing brushes	Sw 65.0133	
130-3975-001	1321354	Angle lever WH 180 VS with protective box cpl	Protective box with sealing brushes	Sw 65.0134	
130-3851-001	1370541	Angle lever with protective box WH 150 VS	Protective box with sealing brushes	Sw 65.0135	
130-3849-001	1370551	Angle lever with protective box WH 125 VS	Protective box with sealing brushes	Sw 65.0136	
130-3188-001	1370518	Angle lever with protective box WH 105VS	Protective box with sealing brushes	Sw 65.0137	
130-4270-001	1362483	Angle lever with protective box WH 150VS-1	Protective box with sealing brushes	Sw 65.0138	
130-4289-001	1362484	Angle lever WH 125VS-2 with protective box	Protective box with sealing brushes	Sw 65.0140	
130-4246-001	1362459	Angle lever WH 105VS-1 with protective box		Sw 65.0141	
130-4271-001	1365933	Angle lever with protective box WH 130VS	Protective box with sealing brushes	Sw 65.0143	
130-4567-001	1472691	Angle lever with protective box WH 220 R-4	Right version	Sw 65.0146	
130-3976-001	1337805	Angle lever WH 150 m protective box cpl	Protective box with sealing brushes	Sw 65.0200	
130-3190-001	1337806	Angle lever with protective box WH 125m	Protective box with sealing brushes	Sw 65.0201	
130-3549-001	1337779	Angle lever with angle lever box WH150FA	Protective box with sealing brushes	Sw 65.0202	
130-1467-001	1337825	Angle lever with spring compensation WH 125FA	Single rod with spring compensation	Sw 65.0203	
130-3544-001	1337748	Angle lever with protective box WH 125Rm-1	Protective box with sealing brushes	Sw 65.0204	
130-3548-001	1337780	Angle lever with protective box WH 125Rm-2	Protective box with sealing brushes	Sw 65.0205	
130-3972-001	1337750	Angle lever with protective box WH 125Lm-1	Protective box with sealing brushes	Sw 65.0206	
130-3977-001	1337813	Angle lever with protective box WH 125Lm-2	Protective box with sealing brushes	Sw 65.0207	
130-3571-001	1337827	Angle lever with protective box WH 220m	Single rod	Sw 65.0208	
130-3726-001	1308454	Angle lever complete (WH SpV)		Sw 65.0210	

1.5 Angle levers



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3625-001	1308444	Angle lever with protective box WH MV		Sw 65.0211	
130-3684-001	1312016	Angle lever with protective box WH SpV-1		Sw 65.0212	
130-3727-001	1312018	Angle lever complete (WH BV)		Sw 65.0213	
130-3830-001	1322647	Angle lever complete (WH Sig)		Sw 65.0214	
130-3636-001	948877	Angle lever with protective box (WH 125Rm)		Sw 65.0217	
130-4272-001	1385321	Angle lever complete with protective box	WH 125R-EH	Sw 65.0223	
130-4132-001	1385295	Angle lever complete with protective box	WH 125-1R-EH	Sw 65.0224	
130-4166-001	1383439	Angle lever complete with protective box	WH 125-1L-EH	Sw 65.0224	
130-4082-001	1385247	Angle lever, complete WH 150-2	Transmission parts Kr 60	Sw 65.0225	



1.6 Angle lever connecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3137-001	1184688	Angle lever connecting rod WAS 590m	mech. remote contr., point locking mechanism, synchronous rod linkage, left side	Sw 72.1004	114421
130-3134-001	1184685	Angle lever connecting rod WAS 650m	straight, mech. remote control	Sw 72.1002	114420
130-3140-001	1184712	Angle lever connecting rod WAS 665m	mech. remote control	Sw 72.1008	1140142
130-3136-001	1184687	Angle lever connecting rod WAS 720m	mech. remote contr., point locking mechanism, synchronous rod linkage, right side	Sw 72.1003	114427
130-3117-001	1184663	Angle lever connecting rod WAS 740	straight	Sw 72.0001	114424
130-3174-001	1184859	Angle lever connecting rod WAS 740L	Point lock with rod linkage on the same side	Sw 72.0002	
130-3173-001	1184858	Angle lever connecting rod WAS 740R	Point lock with rod linkage on the same side	Sw 72.0002	962598
220-0777-001	1335975	Angle lever connecting rod WAS 740-1	Point lock with rod linkage on the opposite side	Sw 72.0006	962595
130-3135-001	1184686	Angle lever connecting rod WAS 740m	straight, mech. remote control	Sw 72.1002	899231
130-3139-001	1184711	Angle lever connecting rod WAS 755m	mech. remote control	Sw 72.1007	899230
130-3118-001	1184664	Angle lever connecting rod WAS 780	straight	Sw 72.0001	114419
130-3128-001	1184677	Angle lever connecting rod WAS 780-1	Switches with locking sleepers, BV	Sw 72.0005	114418
130-3130-001	1184678	Angle lever connecting rod WAS 780R	EW 60-300,BV, rod on opposite side	Sw 72.0007	899229
130-3129-001	1184679	Angle lever connecting rod WAS 780L	EW 60-300,BV, rod on opposite side	Sw 72.0007	899128
130-3119-001	1184665	Angle lever connecting rod WAS 820	straight	Sw 72.0001	980975
130-3133-001	1184682	Angle lever connecting rod WAS 820L	Switches with locking sleepers, point locking mechanism	Sw 72.0009	962594
130-3132-001	1184681	Angle lever connecting rod WAS 820R	Switches with locking sleepers, point locking mechanism	Sw 72.0009	114423

1.6 Angle lever connecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3633-001	1308765	Angle lever connecting rod WAS 1042	Single rod in track centre	Sw 72.1011	114422
130-3120-001	1184666	Angle lever connecting rod WAS 1675	straight	Sw 72.0001	114428
130-3131-001	1184680	Angle lever connecting rod WAS 1700EH	movable Common crossing EH-fb	Sw 72.0008	980974
130-3138-001	1184690	Angle lever connecting rod WAS 1785m	mech. remote control, right	Sw 72.1006	980973
130-3713-001	1184683	Angle lever connecting rod WAS 2270EH	movable Common crossing EH-fb, EW 7000/6000	Sw 72.0100	
130-3714-001	1184684	Angle lever connecting rod WAS 2350EH	movable Common crossing EH-fb, EW 6000/3700	Sw 72.0100	
130-3796-001	1329056	Angle lever connecting rod WAS 2950L		Sw 72.0015	
130-3121-001	1184667	Angle lever connecting rod WAS 3070	straight	Sw 72.0001	684735
130-3797-001	1329039	Angle lever connecting rod WAS 3285		Sw 72.0001	976761
130-3127-001	1184676	Angle lever connecting rod WAS 3385L	EKW 54-500	Sw 72.0004	114377
130-3126-001	1184675	Angle lever connecting rod WAS 3385R	EKW 54-500	Sw 72.0004	114378
130-3123-001	1184669	Angle lever connecting rod WAS 3445L	EKW 54-500	Sw 72.0003	114375
130-3122-001	1184668	Angle lever connecting rod WAS 3445R	EKW 54-500	Sw 72.0003	114374
130-3125-001	1184672	Angle lever connecting rod WAS 3480L	EKW 54-500	Sw 72.0003	832269
130-3124-001	1184670	Angle lever connecting rod WAS 3480R	EKW 54-500	Sw 72.0003	704561
130-3799-001	1329073	Angle lever connecting rod WAS 3500L		Sw 72.0015	705331
130-3798-001	1329065	Angle lever connecting rod WAS 3865		Sw 72.0014	

1.7 Angle lever interconnecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3141-001	1184774	Angle lever connecting rod WVS 2140	with two connecting forks	Sw 73.0001	114408
130-3142-001	1184775	Angle lever connecting rod WVS 2640	with two connecting forks	Sw 73.0001	114407
130-3143-001	1184776	Angle lever connecting rod WVS 2730	with two connecting forks	Sw 73.0001	114406
130-0457-008	1337832	Angle lever connecting rod WVS 3200	with a connecting fork and thread	Sw 73.0002	962589
130-4017-001	1337738	Angle lever connecting rod WVS 3320	with two connecting forks	Sw 73.0001	948908
130-3144-001	1184777	Angle lever connecting rod WVS 3380	with two connecting forks	Sw 73.0001	114404
130-3145-001	1184778	Angle lever connecting rod WVS 3390	with two connecting forks	Sw 73.0001	114409
220-0769-001	1337830	Angle lever connecting rod WVS 3400	with a connecting fork and thread	Sw 73.0002	962589
130-3718-001	1184739	Angle lever connecting rod WVS 3500	with a connecting fork and thread	Sw 73.0002	114403
130-3146-001	1184779	Angle lever connecting rod WVS 3670	with two connecting forks	Sw 73.0001	827440
130-3719-001	1184740	Angle lever connecting rod WVS 3720	with a connecting fork and thread	Sw 73.0002	801756
130-3147-001	1184780	Angle lever connecting rod WVS 3820	with two connecting forks	Sw 73.0001	114390
130-3148-001	1184821	Angle lever connecting rod WVS 3880	with two connecting forks	Sw 73.0001	953089
130-3149-001	1184822	Angle lever connecting rod WVS 3910	with two connecting forks	Sw 73.0001	114405
130-3150-001	1184823	Angle lever connecting rod WVS 3970	with two connecting forks	Sw 73.0001	114389
130-2156-001	1326786	Angle lever connecting rod WVS 3987-G	with connecting fork and nozzle (Wn3-Wn6)	Sw 73.0003	962722
130-2399-001	1217704	Angle lever connecting rod WVS 3990	with two connecting forks	Sw 73.0001	953018
130-3216-001	1184881	Angle lever connecting rod WVS 4025	with a connecting fork and thread	Sw 73.0002	801757
130-3151-001	1184824	Angle lever connecting rod WVS 4130	with two connecting forks	Sw 73.0001	946591
130-2815-001	1326815	Angle lever connecting rod WVS 4187	with thread and threaded socket (Wn3-Wn6)	Sw 73.0006	962724
130-3152-001	1184825	Angle lever connecting rod WVS 4190	with two connecting forks	Sw 73.0001	823403

1.7 Angle lever interconnecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3835-001	1322648	Angle lever connecting rod WVS 4227		Sw 73.0007	
130-3153-001	1184826	Angle lever connecting rod WVS 4280	with two connecting forks	Sw 73.0001	
130-3154-001	1184827	Angle lever connecting rod WVS 4320	with two connecting forks	Sw 73.0001	827433
130-3312-001	1184882	Angle lever connecting rod WVS 4340	with a connecting fork and thread	Sw 73.0002	
130-2815-004	1337853	Angle lever connecting rod WVS 4372	with thread and threaded socket (Wn3-Wn6)	Sw 73.0006	962727
130-3155-001	1184828	Angle lever connecting rod WVS 4410	with two connecting forks	Sw 73.0001	948909
130-2525-004	1184884	Angle lever connecting rod WVS 4415	with a connecting fork and thread	Sw 73.0002	973317
130-4600-001	1184885	Angle lever connecting rod WVS 4510	with a connecting fork and thread	Sw 73.0002	973370
130-3156-001	1184829	Angle lever connecting rod WVS 4520	with two connecting forks	Sw 73.0001	827431
220-0774-001	1335948	Angle lever connecting rod WVS 4565	with a connecting fork and thread	Sw 73.0002	962591
130-3259-001	1184886	Angle lever connecting rod WVS 4580	with a connecting fork and thread	Sw 73.0002	973318
130-3157-001	1184830	Angle lever connecting rod WVS 4590	with two connecting forks	Sw 73.0001	827423
130-2240-001	1337851	Angle lever connecting rod WVS 4602	with thread and threaded socket (Wn3-Wn6)	Sw 73.0006	962726
130-3158-001	1184841	Angle lever connecting rod WVS 4620	with two connecting forks	Sw 73.0001	827424
130-3159-001	1184842	Angle lever connecting rod WVS 4670	with two connecting forks	Sw 73.0001	973314
130-4290-001	1184887	Angle lever connecting rod WVS 4690	with a connecting fork and thread	Sw 73.0002	973544
130-3160-001	1184843	Angle lever connecting rod WVS 4720	with two connecting forks	Sw 73.0001	973316
130-3161-001	1184844	Angle lever connecting rod WVS 4725	with two connecting forks	Sw 73.0001	980989
130-1258-001	1251962	Angle lever connecting rod WVS 4800	with a connecting fork and thread	Sw 73.0002	973545
130-3710-001	1217705	Angle lever connecting rod WVS 4880	with a connecting fork and thread	Sw 73.0002	1113967

1.7 Angle lever interconnecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3162-001	1184845	Angle lever connecting rod WVS 4970	with two connecting forks	Sw 73.0001	114387
130-0184-001	1335929	Angle lever connecting rod WVS 5020	with a connecting fork and thread	Sw 73.0002	962592
130-3163-001	1184846	Angle lever connecting rod WVS 5070	with two connecting forks	Sw 73.0001	114386
220-0988-001	1184889	Angle lever connecting rod WVS 5075	with a connecting fork and thread	Sw 73.0002	1113969
130-3753-001	1337739	Angle lever connecting rod WVS 5077	with thread and threaded socket (Wn3-Wn6)	Sw 73.0006	962725
130-3715-001	1217706	Angle lever connecting rod WVS 5140	with a connecting fork and thread	Sw 73.0002	1113968
130-4602-001	1184890	Angle lever connecting rod WVS 5170	with a connecting fork and thread	Sw 73.0002	114399
130-0181-001	1335521	Angle lever connecting rod WVS 5200	with two connecting forks	Sw 73.0001	962590
130-0179-001	1184891	Angle lever connecting rod WVS 5240	with a connecting fork and thread	Sw 73.0002	114398
130-3164-001	1184847	Angle lever connecting rod WVS 5280	with two connecting forks	Sw 73.0001	948910
130-3310-001	1184892	Angle lever connecting rod WVS 5280-1	with a connecting fork and thread	Sw 73.0002	996542
220-0996-001	1337835	Angle lever connecting rod WVS 5294-V	with thread and rod sleeve (Wn3-Wn6)	Sw 73.0005	1162191
130-3165-001	1184848	Angle lever connecting rod WVS 5300	with two connecting forks	Sw 73.0001	114385
130-0173-001	1335991	Angle lever connecting rod WVS 5310	with a connecting fork and thread	Sw 73.0002	962587
130-3166-001	1184849	Angle lever connecting rod WVS 5335	with two connecting forks	Sw 73.0001	984995
130-2127-003	1184850	Angle lever connecting rod WVS 5480	with two connecting forks	Sw 73.0001	827432
130-3311-001	1184893	Angle lever connecting rod WVS 5520	with a connecting fork and thread	Sw 73.0002	980976
130-0169-001	1335475	Angle lever connecting rod WVS 5545	with two connecting forks	Sw 73.0001	962585
130-3057-001	1184851	Angle lever connecting rod WVS 5650	with two connecting forks	Sw 73.0001	827430
130-3167-001	1184852	Angle lever connecting rod WVS 5710	with two connecting forks	Sw 73.0001	996539

1.7 Angle lever interconnecting rods



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-2370-001	1337834	Angle lever connecting rod WVS 5724-V	with thread and rod sleeve (Wn3-Wn6)	Sw 73.0005	962723
130-3168-001	1184853	Angle lever connecting rod WVS 5750	with two connecting forks	Sw 73.0001	827421
130-3169-001	1184854	Angle lever connecting rod WVS 5850	with two connecting forks	Sw 73.0001	980990
130-3170-001	1184855	Angle lever connecting rod WVS 5870	with two connecting forks	Sw 73.0001	1118655
220-0976-001	1184894	Angle lever connecting rod WVS 6100	with a connecting fork and thread	Sw 73.0002	114393
130-0185-001	1335955	Angle lever connecting rod WVS 6195	with a connecting fork and thread	Sw 73.0002	962593
130-3171-001	1184856	Angle lever connecting rod WVS 6300	with two connecting forks	Sw 73.0001	996541
130-3172-001	1184857	Angle lever connecting rod WVS 6320	with two connecting forks	Sw 73.0001	114411
220-0772-001	1335956	Angle lever connecting rod WVS 6535	with a connecting fork and thread	Sw 73.0002	962586

1.8 Transmission levers



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3747-001	1322568	Transmission lever WHÜ 100	Double rod Lubrication-free, raw part	Sw 65.1010	
130-3683-001	1319191	Transmission lever WHÜ 105	Double rod Lubrication-free, raw part	Sw 65.1010	720443
130-3745-001	1322547	Transmission lever WHÜ 125	Double rod Lubrication-free, raw part	Sw 65.1010	114076
130-3723-001	1322579	Transmission lever WHÜ 130	Double rod Lubrication-free, raw part	Sw 65.1010	
130-3746-001	1322588	Transmission lever WHÜ 150	Double rod Lubrication-free, raw part	Sw 65.1010	114078
130-3673-001	1319183	Transmission lever WHÜ 180	Double rod Lubrication-free, raw part	Sw 65.1010	114079
130-3589-001	1305946	Transmission lever WHÜ 220	Double rod Lubrication-free, raw part	Sw 65.1010	114077
130-3180-002	1366810	Transmission lever complete a=105mm		Sw 65.1011 Part 117.049	
130-3179-002	1366902	Transmission lever complete a=125mm		Sw 65.1011 Part 117.048	
130-3723-002	1366911	Transmission lever complete a=130mm		Sw 65.1011	
130-3186-002	1366864	Transmission lever complete a=150mm		Sw 65.1011	
130-3185-002	1366895	Transmission lever complete a=180mm		Sw 65.1011	
130-3058-002	1366903	Transmission lever complete a=220mm		Sw 65.1011	
130-3190-002	1377337	Transmission lever WHÜ 220/125m complete		Sw 65.1020	
131-3190-001		Transmission lever WHÜ 220/125m	Raw part for Sw 65.1020	Sw 65.1021	113 331
130-3189-002	1377338	Transmission lever WHÜ 220/150m complete	Single rod Lubrication-free	Sw 65.1022	113 354
131-3189-001		Transmission lever WHÜ 220/150m	Raw part for Sw 65.1022	Sw 65.1023	113 352
130-1285-002	1377339	Transmission lever WHÜ 220/125FA complete	Single rod Lubrication-free	Sw 65.1024	113 350
130-3549-003	1377339	Transmission lever WHÜ 150FA complete	Single rod Lubrication-free	Sw 65.1025	113 353
130-3191-002	1467411	Transmission lever WHÜ 220/125Lm complete	Single rod Lubrication-free	Sw 65.1026	113 824
130-3535-001		Transmission lever WHÜ 220/125Rm complete	Single rod Lubrication-free	Sw 65.1027	113 825

1.8 Transmission levers



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-3757-001	1326782	Transmission lever WHÜ 220/220m	Raw part for Sw 65.1030	Sw 65.1031	
130-3727-002		Transmission lever WHÜ 220/125-1m complete	Single rod Lubrication-free	Sw 65.1032	
130-3725-001	1329055	Transmission lever WHÜ 220/125-1m	Raw part for Sw 65.1032	Sw 65.1033	
130-3625-003		Transmission lever WHÜ 220/150-1m complete	Single rod Lubrication-free	Sw 65.1034	

1.9 Bearings



Material No. FH Mounting position left	Material No. FH Mounting position right	Designation	Comment	Drawing No.	Material No. DB old
130-0124-001	130-1886-001	KS bearing electric point machine	Switch blade device	Sw 11.0001	
130-3721-001	130-1976-002	KS bearing electric point machine (double slip turnout)	Double slip turnout 54-190, single slip turnout 54-190 remote	Sw 11.0003	
130-1975-002	130-1975-002	KS bearing electric point machine (single slip turnout)	EKW 54-190 near	Sw 11.0004	
130-1695-002	130-1695-002	KS bearing for electric point machine, S-Bahn Berlin	extended bearing	Sw 11.0051	
130-2553-002	130-3963-001	KS bearing for electric point machine, S-Bahn Berlin	deep bearing	Sw 11.0052	
130-4537-001	130-3920-001	KS bearing for electric point machine, S-Bahn Berlin	Double slip turnout 54-190, single slip turnout 54-190 remote	Sw 11.0053	
130-4530-002	130-4530-002	KS bearing for electric point machine, S-Bahn Hamburg	continuous current switch	Sw 11.0061	
130-0628-001	130-0628-001	KS bearing tongue test contact	via connecting rods	Sw 11.1001	
130-1934-004	130-1934-004	KS bearing tongue test contact, S-Bahn Berlin	via connecting rods	Sw 11.1051	
130-4475-001	130-4475-001	KS bearing tongue test contact, S-Bahn Berlin	opposite connecting rods	Sw 11.1052	
130-3499-001	130-3499-001	KS bearing for angle lever, point locking mechanism (double rod)	Point lock, drive side	Sw 11.2001	
130-3499-002	130-3499-002	KS bearing for angle lever, centre lock (double rod)	Centre lock, auxiliary device	Sw 11.2021	
130-3499-003	130-3499-003	KS rod guide (double rod)		Sw 11.3001	
130-3499-004	130-3499-004	KS rod guide (single rod)		Sw 11.3002	
130-3856-002	130-3856-002	KS turnout signal (DKW) Wn 3-Wn 6	DKW 54-190, concrete sleepers	Sw 11.6001	
130-1908-002	130-1890-002	W-bearing electric point machine S700K	Simple turnouts (regular turnout)	Sw 12.0001	
130-3902-001	130-3902-001	W-bearing electric point machine EH-fb	Simple turnouts (regular turnout)	Sw 12.0002	
130-3959-001	130-3959-001	W-bearing electric point machine GS	Derailer	Sw 12.0003	
120-2213-002	120-2213-002	W bearing angle lever MV (double rod)	Centre lock, auxiliary device	Sw 12.2021	
120-2699-001	120-2699-001	W rod guide (double rod)		Sw 12.3001	

1.9 Bearings



Material No. FH Mounting position left	Material No. FH Mounting position right	Designation	Comment	Drawing No.	Material No. DB old
130-3505-001	130-3505-001	VS bearing electric point machine S700K	Simple turnouts (regular turnout)	Sw 13.0001	
130-3506-001	130-3506-001	VS bearing tongue test contact	via connecting rods	Sw 13.1001	
130-3993-001	130-3993-001	VS bearing tongue test contact	without connecting rods	Sw 13.1002	
130-3507-001	130-3507-001	VS bearing for angle lever, point locking mechanism (double rod)		Sw 13.2001	
130-3509-001	130-3509-001	VS rod guide (double rod)		Sw 13.3001	

1.10 Lateral locking drives



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-2322-001	1327862	Tab for lateral locking VS	Point locking mechanism same side at locking sleeper	Sw 90.0001	980940
120-2577-002	1327863	Lateral locking SpV-VS	Point locking mechanism same side at locking sleeper	Sw 90.0002	980938
120-2577-003	1327873	Lateral locking MV-VS	MV+SpV opposite side at locking sleeper	Sw 90.0003	980939
upon request	1327892	Lateral locking Kr-1 (S700K)	SpV Kr S700K at locking sleeper	Sw 90.0004	1143136
120-2577-005	1327858	Lateral locking Kr-2 (L 700H)	SpV Kr L700H at locking sleeper	Sw 90.0004	1143143
upon request	957365	Lateral locking SpV-1	Single rod Lubrication-free, track centre	Sw 90.0005	1143143
upon request	957366	Lateral locking BV	Single rod Lubrication-free, track centre	Sw 90.0006	
131-4447-001	1356017	Lateral locking RfW	Spring switches	Sw 90.0007	948906

1.11 Bearing blocks



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-2040-001	1297021	Bearing block angle lever	Lubrication-free transmission parts	Sw 92.0001	
130-3058-004	1358515	Bearing block, complete		Sw 92.0002	
131-1666-001	1375590	Bearing block for tongue centre tester		Sw 92.0004	
130-0255-002	1327852	Block for remote-controlled points		Sw 92.0005	
130-1599-002	1331175	Block with weight lever and 45kg weight		Sw 92.0006	
130-1205-001	1331147	Bearing block, complete with 34kg weight	for locally installed derailleurs with weight lever	Sw 92.0007	
130-1205-002	1331788	Block without weight lever	with surface finish	Sw 92.0008	
130-1378-001	1370828	Bearing block complete	for mechanical point machine	Sw 92.0015	
130-2376-001	1385267	Bearing block complete	mechanical point machine for loose delivery	Sw 92.0016	
130-0255-004		Bearing block	for remotely operated points	Sw 92.0050	
131-1599-001		Bearing block for setting stand	locally operated points	Sw 92.0051	
131-3625-004	1151005	Bearing block	Transmission parts in track centre	Sw 92.0052	



1.12 Cast weights



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-1205-006	1369379	Cast weight 34 kg	With handle and surface finish	Sw 92.0110	
131-1685-001	1375849	Cast weight 45 kg	with handle and surface finish	Sw 92.0111	

Individual colouring according to point function (see signal book 301 DB InfraGo)

Marking of the lever weights of mechanical locally operated points

	Basic position
	Only change with the consent of the guard
	no basic position required
	Spring switches
	Switches without point lock



1.13 Covers for

crossing points, rods and closures



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-1711-001	113333	Cover plate		635.305.1 according to S635.1.2*	
130-1234-001	114716	Manual lock cover		S 410.05.4 T.120.2	
220-0467-001	114717	Manual lock cover		S 410.05.4 Image 1	
200-0023-001	118034	Earthing choke (incl. cover flap)		S25000-Q1728-A20	
121-1609-001	124027	Cover		S 8104.02.2 T.013.2	
220-0001-001	125351	Crossing point cover A		6402/1987	
220-0002-001	125352	Crossing point cover B		6402/1987	
120-0833-001	606313	Radar cover		6450/2632 Image 1 T.1	
130-0123-001	800520	Rod cover	Regular configuration	Sw 971000 (S 7310.11 T.485)	
130-1829-001	828910	Rod cover-Z (opposite side)(w)	with hood 7310.502.5	S.7326.03.5 T.014.1	
130-1830-001	828911	Rod cover-Z (same side)(w)	with hood 7310.510.1	S.7326.03.5 T.016.1	
130-0196-001	950289	Rod cover complete Regular configuration		Sw 97.1002 (S 7310.12 T.501)	
130-2958-001	957798	Rod cover WA, complete -w		Sw 971005	
130-2958-001	957798	Rod cover	with hood L=930mm	S7326.03.5 T19.1 with hood T039.1	
130-2219-005	990402	Rod cover (VS) t-prk., complete	(with hood 7310.502.5)	S.7327.2 T.040	
130-2196-001	995163	Point lock cover (650mm)	Side area (KS)	S.7310.22.1 Image 9 T.933.1 similar (6mm cover)	
130-2194-001	995169	Point lock cover Point machine	(S 54 - KS)	S.7310.22.1 Image 9 T.962.1 similar (6mm cover)	
130-2198-001	995173	Cover centre lock (600mm)	Side area (KS)	S.7310.22.1 Image 10 T.7310.937.1 similar (6mm thick)	
130-3267-001	996357	Cover 42		low 54.0060	
130-3268-001	996390	Cover 34 Side area 650 (KS)		low 54.0054	
130-3270-001	996393	Cover 35 Side area 600 (KS)		low 54.0054	
131-2701-001	1100928	Cover AH 22		low 54.0051	
131-2702-001	1100929	Cover AH 23		low 54.0051	
130-2703-001	1100930	Cover AH 24		low 54.0052	
130-2704-001	1101021	Cover AH 25		low 54.0052	
131-2699-001	1101022	Cover AH 20		low 54.0051	

1.13 Covers for crossing points, rods and closures



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-2700-001	1101023	Cover AH 21		low 54.0051	
130-2705-001	1101024	Cover AH 26		low 54.0052	
130-2724-001	1101310	Cover AH 15 435x800		low 54.0015	
130-2798-001	1102820	Support Tr5 f centre cover auxiliary device		low 42.0075	
130-2806-001	1103013	WH cover AH 27 KS left		low 54.0056	
130-2807-001	1103014	WH cover AH 28 KS right		low 54.0057	
131-2808-001	1103015	WH cover W left AH29		low 54.0058	
131-2809-001	1103016	WH cover W right AH30		low 54.0059	
130-1382-001	1103763	Manual lock cover		S 410.08.2 T.150.1	
131-3280-001	1105227	Cover for t-prk. (opposite side)- VC cpl #		S73273.3 T042.1	
131-2711-001	1107263	Cover AH 60-650		low 54.0073	
131-2712-001	1107264	Cover AH 66-600		low 54.0100	
130-2713-001	1107265	Cover AH 70-650R		low 54.0092	
130-2714-001	1107266	Cover AH 71-650L		low 54.0093	
130-2715-001	1107267	Cover AH 76-600 R		low 54.0096	
130-2716-001	1107268	Cover AH 77-600L		low 54.0097	
130-2707-001	1107349	Cover AH 56		low 54.0071 Serial No. 01	
130-2708-001	1107350	Cover AH 57		low 54.0071 Serial No. 02	
130-2709-001	1107391	Cover AH 58		low 54.0071 Serial No. 03	
130-2710-001	1107392	Cover AH 59		low 54.0072	
131-2723-001	1110026	Cover WAH 98-right point lock		low 54.0117	
131-2722-001	1110027	Cover WAH 97-left point lock		low 54.0116	
130-2717-001	1110037	Cover AH 80		low 54.0108	
130-2718-001	1110038	Cover AH 81		low 54.0109	
130-2719-001	1110039	Cover AH 84		low 54.0112	
130-2720-001	1110040	Cover AH 85		low 54.0113	
131-2694-001	1110041	Cover AH 100-650 point lock		low 54.0124	
131-2695-001	1110042	Cover AH 101-650 point lock		low 54.0126	
131-2696-001	1110043	Cover AH 102-600 point lock		low 54.0134	
131-2697-001	1110044	Cover AH 103-600 centre lock		low 54.0128	

1.13 Covers for crossing points, rods and closures



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-2721-001	1110141	Cover AH 99		low 54.0122	
131-2698-001	1111118	Cover AH 104-600 point lock		low 54.0136	
131-2989-001	1165412	Cover closure piece AHV 3		low 54.0211	
131-2990-001	1165413	Cover rod cover AHV 4		low 54.0212	
131-3709-001	1176842	Closure piece cover AH 133R (EVZ)		low 54.0004	
131-3708-001	1176843	Locking piece cover AH 133L (EVZ)		low 54.0004	
120-2473-001	1177829	Cover A 134 (hot-dip galvanized)	(incl. 2 spring pins 5mm and safety rope Ø3mm)	low 54.0005	
131-3083-001	1178457	Plastic cover S-Bahn AH139		low 54.0010	
131-3086-001	1178512	Cover AH 135	Plastic cover	low 54.0166	
131-3084-001	1178513	Cover AH 136	Plastic cover	low 54.0166	
131-3085-001	1178514	Cover AH 137	Plastic cover	low 54.0166	
131-3087-001	1178515	Cover AH 138	Plastic cover	low 54.0166	
130-3631-001	1319782	Rod cover for point machine, deep	Track (w), derailer remote, S-Bahn	Sw 971012	
130-3687-001	1319794	Rod cover for point machine, deep	Track (w), GS local, S-Bahn	Sw 971011	
130-0123-002	1321942	Support for rod cover cpl.		Sw 970500 (replacement for S 7310.11 T.487)	
131-0257-002	1327819	Cover Wn-EH	Point signal on EH-fb	Sw 98.0002	
140-0280-001	1327840	Rod cover WA-KS 710	Point machine, S-Bahn Hamburg	Sw 971000	
130-3896-001	1327857	Rod cover ZP-w 530	Tongue tester above the rod	Sw 971006	
upon request	1327872	Rod cover WA-KS 530	Point machine, control arrangement	Sw 971000	
130-2012-002	1327881	Rod cover WA-KS 830	Point machine, S-Bahn Berlin	Sw 971000	
130-3580-003	1327882	Rod cover WA-KS 350	Point machine, shortened bearing	Sw 971000	
130-1829-001	1327883	Rod cover ZP-w 420	Tongue tester opposite the rod	Sw 971005	
130-1828-001	1327891	Rod cover WA-w 530	Regular configuration	Sw 971005	
130-3510-001	1327901	Rod cover ZP-VS 420		Sw 971003	
130-3899-001	1331505	Rod cover GS-KS 350		Sw 971009	

1.13 Covers for crossing points, rods and closures



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
upon request	1337740	Rod cover ZP-KS 420	Tongue tester opposite rod, regular turnout	Sw 971002	
upon request	1337808	Rod cover ZP-KS 420-1	Tongue tester above the rod, cramped	Sw 971001	
upon request	1337861	Rod cover ZP-KS 530	Tongue tester above the rod	Sw 971001	
130-4349-001	1358470	Rod cover ZP-FF 530-1	Tongue tester opposite the rod	Sw 971013	
130-3510-001	1327901	Rod cover ZP-VS 420	Tongue tester above the rod	Sw 971003	



1.14 Channels



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-0017-004	1297842	Sewer connection, complete	Protective box for angle lever	Sw 65.1500	
131-0088-001	1321436	Galv. channel I high, L = 2000	Centre rod cover	Sw 98.0003	115364
131-0089-001	1321457	Galv. channel I high, L = 2600	Centre rod cover	Sw 98.0003	115365
131-0090-001	1321494	Galv. channel I high, L = 3200	Centre rod cover	Sw 98.0003	115366



1.15 Ground anchors



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
110-0122-001	118010	Ground anchor l= 1000 m with colour RAL 9017 traffic black		Sw B621.01.08	
220-0876-001	118008	Ground anchor l=500mm		B.621.01.05	
110-0132-001		Ground anchor l=516mm for cable distributor hot-dip galvanised		S3680.01.3 T004.3	
100-1285-001	118006	Ground anchor l=90mm		Sw B621.01.02	
110-0005-001		Ground anchor 900mm for cable distributor hot-dip galvanised			

1.16 Sleeper support irons



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-4512-001	1474038	Sleeper support irons LSwi 372 KS		Sw 60.0313	
131-4513-001	1474040	Sleeper support irons LSwi 372-1 KS		Sw 60.0314	
131-3036-001	1375760	Sleeper support irons LS w 554KS	Drive bearing S700V	Sw 60.0312	
131-3563-007	1474068	Sleeper support irons LSwi 570 KS		Sw 60.0317	
131-4640-003	1498951	Sleeper support irons LSwi 700 KS	for angle lever	Sw 60.0524	
131-0081-001	1321102	Sleeper support irons LS w 750 KS	for tongue test contact	Sw 60.0302	
131-2468-001	1362468	Sleeper support irons LS w 750-1KS		Sw 60.0409	
131-4552-001	1322720	Sleeper support irons LS w 750-1KS		Sw 60.0521	
131-4514-001	1474081	Sleeper support irons LSwi 763 KS		Sw 60.0315	
131-4080-001	1321248	Sleeper support irons LS w 825 w		Sw 60.0400	
131-4160-001	1385125	Sleeper support irons LS w 825-1 w		Sw 60.0412	
131-3902-001	1346232	Sleeper support irons LSwi 880 KS		Sw 60.0008	
131-3904-001	1346343	Sleeper support irons LSwi 880 KS-AL		Sw 60.0009	
131-3913-001	1346231	Sleeper support irons LSwi 880 KS-AR		Sw 60.0009	
130-3882-001	1322981	Sleeper support irons LS w 880-1 VS		Sw 60.0603	
130-3826-001	1322940	Sleeper support irons LS w 880-2 VS		Sw 60.0603	
131-0149-001	1321058	Sleeper support irons LS w 900 KS	for angle lever l=900 h=180	Sw 60.0004	
131-3810-003	1443575	Sleeper support irons LS w 900k KS		Sw 60.0011	
131-2127-005	1321097	Sleeper support irons LS w 900-1 KS	for angle lever	Sw 60.0301	
130-0039-001	1331536	Sleeper support irons LS w 900-2 KS	for angle lever mechanical remote control	Sw 60.0504	
131-4640-002	1498939	Sleeper support irons LSwi 900-3 KS	for angle lever	Sw 60.0523	

1.16 Sleeper support irons



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-1826-001	1321228	Sleeper support irons LSw 975 w	for angle lever	Sw 60.0101	
131-3836-001	1347075	Sleeper support irons LSw 975-1w	for angle lever	Sw 60.0104	
131-2528-001	1120184	Sleeper support irons LSw 975 Fw		Sw 60.0201	
131-3854-001	1321307	Sleeper support irons LSw 975-1 VS		Sw 60.0515	
131-4568-001	1472582	Sleeper support irons LSw 1030w		Sw 60.0414	
131-0150-001	1321068	Sleeper support irons LSw 1050 KS	for rod guide	Sw 60.0300	
131-2127-006	1321098	Sleeper support irons LSw 1050-1 KS	for rod guidance mechanical remote control	Sw 60.0505	
131-4640-001	1498926	Sleeper support irons LSwi 1050-2 KS		Sw 60.0525	
131-4570-001	1472569	Sleeper support irons LSw 1098w		Sw 60.0105	
131-1827-001	1321229	Sleeper support irons LSw 1125 w	for rod guide	Sw 60.0402	
131-1827-002	1337736	Sleeper support irons LSw 1125-1 w	for rod guide	Sw 60.0511	
131-1998-001	1321290	Sleeper support irons LSwi 1150 KS	for tongue test contact	Sw 60.0303	
131-0044-001	1326802	Sleeper support irons LSw 1150-1 KS	for rod guide	Sw 60.0517	
131-3978-001	748577	Sleeper support irons LSw 1150-2 KS	Storage stand on wooden sleeper	Sw 60.0520	
131-0124-001	1321094	Sleeper support irons LSw 1155 KS	for electric point machine	Sw 60.0001	
131-2362-001	1326739	Sleeper support irons LSw 1155-1 KS		Sw 60.0002	
131-2122-002	1121725	Sleeper support irons LSw 1155 KS-AR		Sw 60.0007	
131-2123-002	1121726	Sleeper support irons LSw 1155 KS-AL		Sw 60.0007	
131-3541-001	1321227	Sleeper support irons LSw 1155-2 VS	for rod guide	Sw 60.0516	
131-2481-001	1101661	Sleeper support irons LSw 1182 Fw		Sw 60.0200	
130-2331-002	1322613	Sleeper support irons LSw 1185-1 VS		Sw 60.0601	

1.16 Sleeper support irons



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-2331-003	1322587	Sleeper support irons LSw 1185-2 VS		Sw 60.0601	
131-1823-001	1321235	Sleeper support irons LSw 1230 w	for electric point machine	Sw 60.0100	
131-3629-001	1319210	Sleeper support irons LSw 1230 w-AR	for electric point machine	Sw 60.0102	
131-3837-001	1345137	Sleeper support irons LSw 1230-1w	for electric point machine	Sw 60.0103	
131-0065-001	1321076	Sleeper support irons LSw 1250 KS	for tongue test contact	Sw 60.0304	
131-2888-001	1101665	Sleeper support irons LSw 1280 Fw		Sw 60.0202	
130-2217-003	1322611	Sleeper support irons right LSw 1285-1VS		Sw 60.0600	
130-2217-004	1322612	Sleeper support irons LSw 1285-2 VS		Sw 60.0600	
131-3855-001	1326797	Sleeper support irons LSw 1300-1 KS		Sw 60.0501	
131-1825-001	1321237	Sleeper support irons LSw 1325 w	for electrical tongue test contact	Sw 60.0401	
131-3546-001	1337553	Sleeper support irons LSwi 1335 KS		Sw 60.0005	
131-0048-001	1337561	Sleeper support irons LSwi 1335-1 KS		Sw 60.0006	
131-3908-001	1321266	Sleeper support irons LSwi 1365 KS		Sw 60.0305	
130-3506-002	1322947	Sleeper support irons LSw 1380-1 VS		Sw 60.0602	
130-3506-003	1322907	Sleeper support irons LSw 1380-2 VS		Sw 60.0602	
131-3853-001	1331806	Sleeper support irons LSw 1400 KS	for setting stand (local)	Sw 60.0508	
131-1962-001	1337460	Sleeper support irons LSw 1450 w		Sw 60.0403	
131-4162-001	1331057	Sleeper support irons LSw 1500 w		Sw 60.0405	
120-0020-001	1331528	Sleeper support irons LSw 1520 KS		Sw 60.0509	
131-1997-001	939815	Sleeper support irons LSw 1555 KS		Sw 60.0003	
131-2489-001	957910	Sleeper support irons LSw 1630 w		Sw 60.0407	
131-0693-001	1362498	Sleeper support irons LSw 1630-1 KS		Sw 60.0408	

1.16 Sleeper support irons



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-3769-001	1362467	Sleeper support irons LSw 1650 KS	for setting stand (local)	Sw 60.0518	
131-4569-001	1472570	Sleeper support irons LSw 1045w		Sw 60.0415	
131-0042-001	1326822	Sleeper support irons LSw 1800-1KS		Sw 60.0500	
131-2394-001	1331516	Sleeper support irons LSw 1850 KS		Sw 60.0506	
131-0045-001	1331541	Sleeper support irons LSw 1850-1 KS		Sw 60.0507	
131-1961-001	1337822	Sleeper support irons LSw 1880 w		Sw 60.0514	
131-1960-001	1337777	Sleeper support irons LSw 1895 w		Sw 60.0513	
131-3632-001	1307687	Sleeper support irons LSw 1930-1 KS		Sw 60.0310	
131-3261-001	1331538	Sleeper support irons LSw 2100 KS		Sw 60.0503	

1.17 Bolts



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-3986-015		Bolts for screw locking		Sw 80.0104	
131-0074-007		Bolt holder		Sw 93.0014 (old S 7310.54.7" T.036.2)	
131-3057-003		Bolt Bo 24-68		Sw 95.0001	
131-0132-002		Bolt Bo 24-65b		Sw 95.0002 (replacement for S.7314 T 635.2)	
131-3117-001		Bolt B24-65		Sw 95.0003	
131-0074-004		Bolt Bo 24-83		Sw 95.0004 (replacement for 7310.042)	
131-3313-003		Bolt 24-75		Sw 95.0005	
131-3900-002		Bolt 24-101		Sw 95.0006	
131-3314-001		Tongue tester bolt Bo 16-55		Sw 95.0007	
130-3546-041		Ball stud 25-65 with marking		Sw 95.0008 (replacement for 7310.030)	
131-3549-001		Bolt 24-62		Sw 95.0009 (replacement for 113 333)	
131-0579-001		Supporting rod bolt Bo 24-75a		Sw 95.0012 (replacement for S119.02.6 T017.2)	

1.17 Bolts



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
131-0256-006		Axle bolt Bo 24-110		Sw 95.0013 (replacement for 228040)	
131-0256-007		Bolt Bo 24-60		Sw 95.0014	
131-0769-003		Bolt Bo 24-65a		Sw 95.0016	
131-0255-016		Universal joint bolt Bo 24-66		Sw 95.0017 (S 113.202 T.406.2 (C25222-B113-X406))	
121-0643-007		Bolt 24-51		Sw 95.0018 (S 7310.58 T.004)	
121-0643-002		threaded bolt		Sw 95.0019 (S 7310.58.1 T 382.2)	
131-0953-003		Bolt Bo 24-65c		Sw 95.0022 (replacement for S 7310.071 T.304.1)	
131-0570-002		Bolt Bo 25-65a		Sw 95.0023 (replacement for 7320.037)	
131-1591-002		Bolt 24-92		Sw 95.0024 (replacement for 220239)	
130-1344-001		Eyebolt		S.220.02.4 T.220 107.1	
131-4714-001		Locking plate bolt		Sw 95.0028	

2.0

Control and safety technology



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Derailers

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Signals

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Railway crossing signs

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Barrier equipment

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Signal masts and platforms

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Ladders for signals

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2.1 Derailers

Construction derailers on request



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
130-4624-001	1331160	Derailer 54R	clampable, derailment right, for S49, S54	Sw 80.0001	114585
130-4625-001	1331177	Derailer 54L	clampable, derailment left, for S49, S54	Sw 80.0002	114586
130-4640-001	1331188	Derailer 60R	clampable, derailment right, for UIC 60	Sw 80.0003	114583
upon request	1331179	Derailer 60L	clampable, derailment left, for UIC 60	Sw 80.0004	114584
130-4641-001		Derailer can be locked in raised position	clampable	Sw 80.0005	
130-4684-001	1346354	Derailer 54R can be locked in lowered position	clampable, derailment right, for S49, S54	Sw 80.0006	114585
upon request	1346345	Derailer 60R can be locked in lowered position	clampable, derailment right, for UIC 60	Sw 80.0006	114586
130-4685-001	1346327	Derailer 54L can be locked in lowered position	clampable, derailment left, for S49, S54	Sw 80.0007	114583
upon request	1346353	Derailer 60L can be locked in lowered position	clampable, derailment left, for UIC 60	Sw 80.0007	114584
120-2138-001	1329033	Derailer signal Sh0/Wn7 retro-reflective	Derailer	Sw 82.0005	958458



2.2 Signals



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
120-0017-001	113314	Point signal Wn1/Wn2 - Form R		S 633.01.2 T 060.2	
120-0018-001	113315	Point signal Wn1/Wn2 - Form L		S 633.01.2 T 061.2	
120-2655-001	1326813	Point signal Wn1/2 retroreflective Form R/L	for spring switches	Sw 82.0001	
120-2123-001	1326785	Point signal Wn 3-Wn 6, retro-reflective	for double crossing switches (DKW)	Sw 82.0004	
120-2138-001	1329033	Derailer signal Sh 0/Wn7	retroreflective	Sw 82.0005	
120-2406-001	1329052	Point signal, Wn1/Wn2-R, illuminated		Sw 82.0010	
120-2429-001	1329062	Electric point signal Light. Form L		Sw 82.0011	
120-2407-001	1329072	Point signal with elect. lighting, form Z		Sw 82.0012.	



2.3 Railway crossing signs



Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
120-2118-003		Railway crossing sign without foil		S800.03.7 Part 031.3 sim.	
120-2118-001	132394	Railway crossing sign (aluminium)	Alu DB 601 coated film of reflection class RA3/C.	S800.03.7 T031.3 and T040.3	
120-2118-004		Railway crossing sign (aluminium) with lightning arrow red	Alu DB 601 coated with 3M reflective film series 4090	S800.03.7 T031.3 and T040.3	

We also offer matching pedestrian protection bars on request!



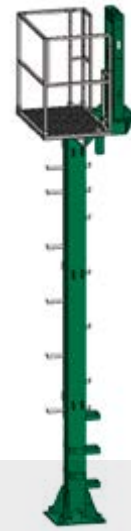
2.4 Barrier equipment

Material No. FH	Material No. DB	Designation	Comment	Drawing No.	Material No. DB old
120-0909-001		Mesh panel - end piece - aluminium L=1905mm		S 960.01.3 - Part 960 001 1	
upon request		Mesh panel - end piece - aluminium L=1565mm		S 960.01.3 - Part 960 008 1	
120-2194-001		Mesh panel - end piece - steel (galvanised)		S 772.04.1 - Part 772 021 1	
120-0911-001		Mesh panel - intermediate piece - aluminium L=1000mm		S 960.01.3 - Part 960 011 1	
120-2061-001		Mesh panel - intermediate piece - steel (galvanised)		S 772.04.1 - Part 772 022 1	
120-0912-001		Mesh panel - top piece - aluminium L=1565mm		S 960.01.3 - Part 960 014 1	
120-0913-001		Mesh panel - top piece - aluminium L=1365mm		S 960.01.3 - Part 960 017 1	
upon request		Mesh panel - top shot - steel (galvanised)		S 772.04.1 - Part 772 023 1	
120-2172-001		Mesh panel - top shot - steel (galvanised)		S 772.04.1 - Part 772 024 1	
120-2173-001		Mesh panel - top shot - steel (galvanised)		S 772.04.1 - Part 772 025 1	
upon request		Mesh panel - top shot - steel (galvanised)		S 772.04.1 - Part 772 026 1	
120-0887-001		Pendulum support		S 970.16	
120-0966-001		Band clamp		S 960.02.5 T.110.3	
upon request		Barrier boom (different designs)			



2.5 Signal masts and platforms

In addition to our standard range, we construct signal masts according to customer specifications.



Material No. FH	Designation	Comment	Wind load zone	Drawing No.
100-0073-001	Light signal mast with 400 mm boom	4.1 m		S 8110.8.1
100-0176-001	Light signal mast with 1000 mm boom	4.1 m		S 8110.8.10 T 160.1
100-0118-001	Light signal tubular mast 3.55 m	3.55 m		S 8270.01.4
100-0007-001	Light signal flat mast 5.2 m	5.2 m		S 8110.2.3
100-0022-001	Attachable mast 1.0 m	1.0 m		S 8115.1.8.T.0015
120-0167-001	Platform for main signal			S 8105.1.2 T.025.1
120-0170-001	Platform for signal mast			S 8117.2.7 T.040.5
310-2573-001	In-ground flat mast 10m LpH (L-11.10m) without surface finish	10 m	1 + 2	1 Ell 10.02.01 / SME-14-3206-1-02
310-2574-001	In-ground flat mast 10m LpH (L-11.10m) without surface finish	10 m	3 + 4	1 Ell 10.02.07 / SME-14-3208-1-02
310-2575-001	In-ground flat mast 12m LpH (L-13.90m) without surface finish	12 m	1 + 2	1 Ell 10.02.02 / SME-14-3210-1-02
310-2576-001	In-ground flat mast 12m LpH (L-13.90m) without surface finish	12 m	3 + 4	1 Ell 10.02.08 / SME-14-3212-1-02
310-2577-001	In-ground flat mast 14m LpH (L-15.90m) without surface finish	14 m	1 + 2	1 Ell 10.02.03 / SME-14-3214-1-02
310-2578-001	In-ground flat mast 14m LpH (L-15.90m) without surface finish	14 m	3 + 4	1 Ell 10.02.09 / SME-14-3216-1-02
310-2579-001	Top-mounted flat mast 10m LpH (9.50L-m) without surface finish	10 m	1 + 2	1 Ell 10.02.04 / SME-14-3205-1-02
310-2580-001	Top-mounted flat mast 10m LpH (Lm) without surface finish	10 m	3 + 4	1 Ell 10.02.10 / SME-14-3207-1-02
310-2581-001	Top-mounted flat mast 12m LpH (L-11.5m) without surface finish	12 m	1 + 2	1 Ell 10.02.05 / SME-14-3209-1-02
310-2582-001	Top-mounted flat mast 12m LpH (L-11.5m) without surface finish	12 m	3 + 4	1 Ell 10.02.11 / SME-14-3211-1-02
310-2583-001	Top-mounted flat mast 14m LpH (L-13.5m) without surface finish	14 m	1 + 2	1 Ell 10.02.06 / SME-14-3213-1-02
310-2584-001	Top-mounted flat mast 14m LpH (L-13.5m) without surface finish	14 m	3 + 4	1 Ell 10.02.12 / SME-14-3215-1-02



2.6 Ladders for signals

Material No. FH	Material No. DB	Designation	Comment	Drawing No.
100-0059-001	122654	Ladder for signal mast 3.5 m	hot-dip galvanised according to DIN EN ISO 1461	S.8116.15. T.007.1
100-0013-001	124351	Ladder for signal mast 4.1 m	hot-dip galvanised according to DIN EN ISO 1461	S.8116.15 T.005.2
100-0014-001	124350	Ladder for signal mast 4.8m	hot-dip galvanised according to DIN EN ISO 1461	S.8116.15 T.001.2

We offer ladders in all lengths and variations upon request.



3.0

Rolling stock / vehicle components



We are your partner for rail vehicle components.
You benefit from our high level of vertical integration
and development expertise.

We are available to you as a development partner and producer for new projects and conversions as well as a reliable supplier of high-quality spare parts. We offer a wide range of products – from simple welded components to complex constructions made of special materials, which we are also happy to offer as a fully functional complete assembly and deliver just-in-time.

You benefit from our high level of vertical integration and expertise, which is unique in its quality and structure.
Our vertical integration for your assemblies:

- Cutting
- Edging
- Machining
- Connection technology
 - Welding technology according to DIN EN 15085 CL1
 - Adhesive technology according to DIN EN 17460-A2
 - Riveting technology
- Surface technology: In-house wet painting system
- Complete electromechanical assembly with functional testing



Robot cabin

3.0 Rolling stock / vehicle components



Development example from container construction



Chassis technology
Spring seats for bolster
springs



Interior fittings for the passenger area

Your one-stop shop – from development to series production

Friedrich Hippe GmbH is your partner for developments in the field of railway technology. We are an approved developer of DIN EN 15085 CL1 welded assemblies for rail vehicles. (applied standards: DIN EN 15085 CL1, DIN EN 15016-1-2, DIN 6701-2, DIN 25201 1-7, DIN EN 61373, DIN EN 12663-1, EN 45545 ISO 5658-1-7 ISO 9239-1..)

Take advantage of our manufacturing experience when designing your products. We offer:

- Development and construction of containers for power electronics, cooling systems, fire extinguishing systems, tank support systems, etc.
- Re-engineering of obsolete assemblies
- Prototype construction with full series qualification with our network of accredited constructions



IP 65 container DIN EN 15085 CL1

Suspension technology, chassis, damping, coupling elements

We implement your drawing specifications or, based on requirement specifications or sample parts, develop alternative components - entirely according to your needs; from formed or machined small parts to large forged components. We also design and manufacture complex welded assemblies with component weights of several tons, such as bogie cradles for subways. We implement your drawing specifications or develop alternative components based on specifications or sample parts - entirely according to your wishes. With our rail vehicle construction program, we offer you a comprehensive range of diverse components. Whether it is individual

parts such as brake levers, stanchions, and side wall flaps, or the design and manufacture of a completely welded driver's cab. In addition, we have particular expertise in the field of special container construction. We ensure that the high demands on strength and tightness (IP55; IP65) are met, while materials and coatings comply with the latest fire protection and emission regulations. From GRP covers to interior fittings, to consoles and telescopic slides - in the field of carriage construction and for passenger areas, we offer a broad product portfolio.

4.0

Production



Certified production for railway technology since 1954

With a maximum of our own, certified vertical integration, we have maximum control over product quality and guarantee the highest degree of flexibility. We offer everything from a single source for the highest demands and short delivery times. In addition to our main plant in Hagen am Teutoburger Wald, near Osnabrück, we have additional production capacities in Poland, which we use to your benefit.

We are your partner for:

- modular sourcing
- system delivery
- obsolescence, after-sales and life cycle management

4.0 Manufacturing

120

highly qualified
and motivated
employees ensure
your success



Our manufacturing capabilities

SHEET METAL PROCESSING MACHINING

- Cutting
- Forming
- Punching technology
- Toolmaking
- CNC machining centres
- CNC turning
- Milling
- Drilling

SURFACE TECHNOLOGY

- Coil coating system for wet painting
- Large cabin painting
- Drying chamber

ELECTROMECHANICS

- Coil winding
- Electromechanical assembly
- Cable production
- Electric motor production

CONNECTION TECHNOLOGY

- Certified bonding
- Gas shielded arc welding
MIG, MAG, TIG (Al, CrNi, St)
- Flash butt welding
- Spot welding

5.0

Service & repair



Component repair

First-hand service: We offer customised repair services for rolling stock and railway infrastructure components. The basis of our comprehensive service is our SAP-supported repair process. This enables us to provide a qualified assessment, which we use to prepare a maintenance and repair quotation. The repaired components are tested and delivered in working order or, upon request, installed and commissioned on-site by our service personnel. We will keep you updated on the current status and condition of your assembly throughout the entire process. Recording production progress using scanning ensures maximum transparency and efficiency.

We offer the following maintenance and repair services:

- Electromechanical assemblies
- Point machines of various designs
- Mechanical assemblies

5.0 Service & repair

Choosing the right spare parts or repairing your route network: Do you need technical support or services? Then please contact our expert team!



Further information:
friedrich-hippe.de/en

Spare parts

At the right time, in the right place. This is our goal as your maintenance partner. With over 6,500 railway infrastructure items in production, we ensure that you get the part you need quickly and reliably. In addition, with our internal design and production capacity, we can provide rapid solutions even in the event of acute bottlenecks or obsolete components. Benefit from our expertise, our warehouse, and our manufacturing – we are your partner when it comes to spare parts.

Re-engineering

When procuring parts in railway operations, bottlenecks and problems with outdated components are not uncommon. We have specifically addressed this issue. With our Design department, appropriately trained specialists and, most of all, our own production capacity, we are able to design and manufacture your desired component.



6.0

Development



6.0

Development



Our many years of experience and in-house production make us your go-to partner when **it comes to development**. Our development team ensures that your desired product is not only deployed flawlessly and quickly, but that its production is efficient and cost-effective.

We combine our extensive manufacturing expertise with advanced design and simulation techniques. In a coordinated project planning process, we define milestones together and thus ensure successful project implementation. We are your development partner for all product areas of railway technology.

Call us or send us an email, we will be happy to answer your questions.

6.0 Development

Railway infrastructure and rail vehicle technology development

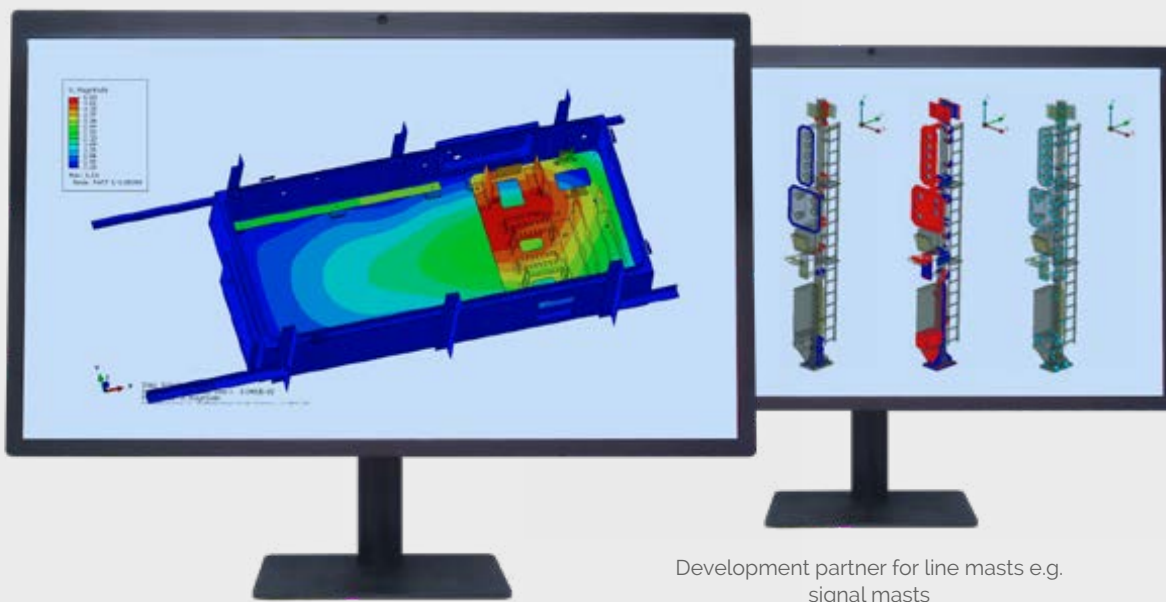
Lean processes, low costs and adherence to deadlines with high quality standards.

We can provide a comprehensive development service for your products according to the specifications. From 3D design support to a complete development contract with final prototype creation and initial sampling with specified component testing up to series production readiness.

Depending on the task, you will receive a FEM calculation proof according to the specified standards and requirements. We can supervise, carry out and document component tests for complete qualification – e.g. fire protection tests, fire resistance tests or leak tests according to IP specifications.

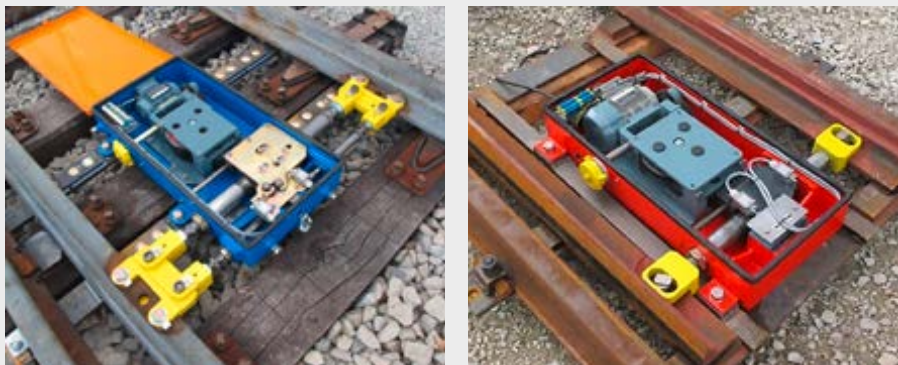


6.0 Development



Design, layout and manufacturing
of rolling stock components

Development partner for line masts e.g.
signal masts



Switch drive technology system and component design
including vulnerability analysis and system optimisation



Contact

We would be happy to connect you with our experts from the relevant fields. Simply contact us by email, phone or via our contact form.

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