

No.	Purchaser	Location	Year of const.	Type	Lifting force t	Capacity t / h	Material handled	Span m	max. outreach m
12	Hugo Stinnes	Hamburg, Germany	1972	with slewing crab	12.5	300	Ore, coal	28	40 32
13	Asbestos Corp.	Nordenham, Germany	1972	with rope driven crab and slewable grab	16	350	Raw asbestos	20	32
14 - 15	TERMISA	Rio de Janeiro, Brazil	1972	with machine crab	13	350	Rock-salt	10	13 16
16	Port Gabès, Tunisia	Tunis, Tunisia	1972	with machine crab	20	500	Sulphur	10	22 14
17	ENCI	Rotterdam, The Netherlands	1972	with rope driven crab	12	450	Clinker	17.5	13
18	Gemeinschaftsbetriebe Eisenbahn und Hafen	Duisburg, Germany	1972	with machine crab	16	400	Ore, coal	59.5	45,3 4,2
19	Norddeutsche Affinerie	Hamburg, Germany	1972	Circular travelling crane with crab for grab and hook	8	220	copper concentrate	D=40	
20 - 21	E.M.O.	Maasvlakte, The Netherlands	1973	with rope driven slewable machine crab	50	330	Ore, coal	70	50
22	DSAG Midgard	Nordenham, Germany	1973	with machine crab for grab and hook attachment	22 22	900	Ore, coal, piece-goods	55.4	38,5 38
23	Det Norske Zinkkompani	Odda, Norway	1974	with rope driven crab	12	620	Zinc concentrate	29	18
24	CIA Salvador / Brazil	Aratu, Brazil	1974	with rope driven crab and slewable grab	25	940	Ore, coal, other bulk materials	16	30
25	Bremer Lagerhaus Gesellschaft	Bremen, Germany	1978	with rotating machine crab for grab and hook attachment	40		piece-goods	91.5	15/43,5

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26	EKOM	Rotterdam	1980	with rope driven slewable machine crab	85	5100	Ore, coal	70	50
27	Bayer	Uerdingen, Germany	1979	with rotating machine crab for grab and hook attachment	12	320	Rock-salt, piece-goods, other bulk materials	17.25	12,5 / 10,5
28	Gemeinschaftsbetriebe Eisenbahn und Hafen	Duisburg, Germany	1980	with machine crab	16	400	Ore, coal	59.5	45,3 / 4,2
29	Kaiser Intern. Oakland / USA	Hongkong	1981	with rope driven machine crab	36	1350	Limestone, ore, coal	12.2	25,4 / 18
30 - 31	PLEM, Maastricht	Buggenum The Netherlands	1981	with rope driven crab	10	400	Coal	D=10	25
32 - 33	Board E.S.B., Dublin	Moneypoint, Ireland	1982	with rope driven crab and slewable grab	40	1550	Coal	21	40/15
34	PAD Port Autonome	Dünkirchen, France	1982	with rope driven crab	50	2800	Ore, coal	16.1	39,7 / 21
35	Preussag-Boliden, Goslar	Nordenham, Germany	1982	with machine crab for grab and hook attachment	10/12,5	400	Lead and zinc concentrate	61	38 / 12
36 - 37	Energieversorgung Schwaben	EVS-Heilbronn, Germany	1985	with machine crab	16	850	Coal	7.5	12/3
38 - 39	BEWAG	Berlin, Germany	1987	with machine crab	12.5	550	Coal	7.95	10/3
40 - 41	CSC	Kaoshung, Taiwan	1987	with rope driven crab	43	2500	Ore, coal	20	37/5
42	BASF	Ludwigshafen, Germany	1987	with rope driven crab	12	400	Phosphate	14	24
43	ROGESA	Dillingen, Germany	1987	Loading bridge with machine crab	40/20 / 16		plates, pipes, cargo	63	26

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44	Preussen Elektra	KW Heyden, Petershagen/Wesel, Germany	1987	with machine crab	12.5	500	Coal	8.475	10,5/3,5
45 - 46	Musel	Gijon, Spain	1988	with rope driven crab	50	2300	Ore, coal	22	42/18
47 - 48	Guanghua Industries, Guangzhou	Sha Jiao, China	1990	with machine crab	25	1000	Coal	14	27
49	EMO	Rotterdam, The Netherlands	1991	with slewable rope driven machine crab	85	5100	Ore, coal	70	50
50	VEW AG Dortmund, Germany	KW Westfalen, Germany	1992	with machine crab	12.5	500	Coal	10	13
51	Howe Sund	Vancouver, Canada	1991	with machine crab and grab	16	1200	Hog fuel	11	16,5
52 - 53	ZHU JIANG	Guangdong, China	1992	with machine crab	32	1250	Coal	22	28
54	Nationalna Kompania AG	KW Varna, Bulgaria	1993	portal crane with machine crab	25	766	Coal	76.2	23/17
55 - 56	NISCO	Bandar Abbas, Iran	1994	with rope driven crab	22	1000	Iron ore	20	35
57	NISCO	Bikiot, Iran	1996	with rope driven crab	22	1000	Iron ore	20	35
58 - 59	Beilungang	China	1997	with rope driven crab	40	1650	Coal	24	32
60	Sollac	Marseille, France	1999	with rope driven crab and slewable grab	55	2782	Coal, iron ore	21.5	42,5
61	Pukarsa	Spain	1999	with rope driven crab and slewable grab	50	2200	Coal	18	44
62	Ultrafertil	Brazil	2000	with rope driven trolley	30	1200	Fertiliser	18	28

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63	Sollac II	Marseille, France	2001	with rope driven crab and slewable grab	55	2782	Coal, iron ore	21.5	42,5
64 65	Waigaoqiao PP	Shanghai, China	2002	with rope driven trolley	42	1400	Coal	22	30
66 67	China Huadian Eng. Corp. Beijing, China	Jiaxing, Zhejiang China	2003	with rope driven trolley	40	1500	Coal	22	32
68 69	China Huadian Eng. Corp. Beijing, China	Ligang, Jiangsu China	2004	with rope driven trolley	44	1800	Coal	22	32
70	CSN Cia. Siderurgica Nacional	Sepetiba - RJ Brazil	2004/ 2005	with rope driven crab and slewable grab	47	1800	coal	22.5	50
71	China Huadian Eng. Corp. Beijing, China	Zhujiang Power Plant, Guangdong, China	2006	with machine crab	32	1250	Coal	22	28
72 73	Shanghai Power Equipment & Materials Co. Ltd.	Waigaoqiao Power Plant III	2006	with rope driven trolley	42	1500	Coal	22	30