



Engineering  
made by ThyssenKrupp Fördertechnik

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**Greifer Schiffsentlader**

**Grab Type Ship Unloader**

**Déchargeur bennes**

**Descargadores cuchara**

Translation	Übersetzung	Traduction	Traducción
Purchaser	Besteller	Client	Cliente
Location	Aufstellungsort	Lieu d'installation	Lugar de instalación
Year of construction	Baujahr	Année de construction	Año de construcción
Type of construction	Bauart	Type de construction	Tipo de construcción
Capacity t/h	Leistung t/h	Débit t/h	Capacidad t/h
Material handled	Fördergut	Produits à manutentionne	Material a transportar
Ships size	Schiffsgröße	Dimension de navire	Dimensión de buque
<b>Ships:</b>	<b>Schiffe:</b>	<b>Navires:</b>	<b>Buques:</b>
Seagoing vessels	Hochseeschiffe	Navires de haute mer	Buques de alta mar
Coastal vessels	Küstenschiffe	Caboteurs	Barcos costeros
River barges	Flußschiffe	Bateaux fluviaux	Barcos fluviales

Referenzen der Unternehmen Krupp India, PWH, PHB, Krupp Industrietechnik sowie der heutigen ThyssenKrupp Fördertechnik und ihrer Auslandsgesellschaften.

References of the companies Krupp India, PWH, PHB, Krupp Industrietechnik as well as the ThyssenKrupp Fördertechnik of today and its foreign subsidiaries.

Um die Referenzliste übersichtlich zu halten, beginnt sie mit den Lieferungen aus dem Baujahr 1972. Bis dahin waren bereits mehr als 12 Greiferentlader von diesem Typ gebaut worden.

In order to keep the reference list clear, it is starting with equipment , the year of construction of which was 1972. Up to 1972 more than 12 unloaders of this type had been built.

Translation	Übersetzung	Traduction	Traducción
<b>Material handled:</b>	<b>Fördergut:</b>	<b>Produit à manutentionner:</b>	<b>Material a transportar:</b>
Alumina	Tonerde	Alumine	Alúmina
Amonium sulphate	Amoniumsulfat	Sulfate d'ammonium	Sulfato de amonio
Apatite	Apatit	Apatite	Apatita
Bauxite	Bauxit	Bauxite	Bauxita
Cement	Zement	Ciment	Cemento
Clinker	Klinker	Clinker	Clinker
Coal	Kohle	Charbon	Carbón
Coke	Koks	Coke	Coque
Coper concentrate	Kupferkonzentrat	Cuivre concentré	Concentrado de cobre
Crome ore	Chromerz	Minerai de chrome	Mineral de cromo
Fertilizer	Düngemittel	Engrais	Fertilizante
Fertilizer granulate	Düngemittel Granulat	Engrais granulé	Fertilizante granulados
Gold concentrate	Goldkonzentrat	Or concentré	Concentrado de oro
Grain	Getreide	Céréales	Cereales
Heavy soda	Schwer-Soda	Soude lourde	Sosa pesada
Iron ore	Eisenerz	Minerai de fer	Mineral de hierro
Kaolin	Kaolin	Kaolin	Caolín
Limestone	Kalkstein	Calcaire	Piedra caliza
Pellets	Pellets	Boulettes	Pellets
Petroleum coke	Petrolkoks	Coke de pétrole	Coque de petróleo
Phosphate	Phosphat	Phosphate	Fosfato
Potash	Kalisalz	Potasse	Sales potásicas
Pyrite	Pyrit	Pyrite	Pirita
Rice	Reis	Riz	Arroz
Rock salt	Steinsalz	Sel gemme	Sal gema
Rock phosphate	Steinphosphat	Phosphate pierreux	Piedra de fosfato
Salt	Salz	Sel	Sal
Sand (calcareous)	Sand (kalkhaltig)	Sable (calcaire)	Arena (calcáreo)
Sintermagnesite	Sintermagnesit	Magnésite frittée	Magnesita sinterizada
Soda ash	Soda-Asche	Cendre de soude	Ceniza de sosa
Stone coal	Steinkohle	Charbon	Carbón de piedra
Sugar	Zucker	Sucre	Azúcar
Sulphur	Schwefel	Sulfure	Sulfuro
Urea	Harnstoff	Urée	Urea
KCL	KCL	KCL	KCL
DAP	DAP	DAP	DAP
MAP	MAP	MAP	MAP

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

No.	Purchaser	Location	Year of const.	Type	Lifting force t	Capacity t / h	Material handled	Span m	max. outreach m
25	Bremer Lagerhaus Gesellschaft	Bremen, Germany	1978	with rotating machine crab for grab and hook attachment	40		piece-goods	91,5	15/43,5
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

No.	Purchaser	Location	Year of const.	Type	Lifting force t	Capacity t / h	Material handled	Span m	max. outreach m
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
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

No.	Purchaser	Location	Year of const.	Type	Lifting force t	Capacity t / h	Material handled	Span m	max. outreach m
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
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	Jiaying, 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



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