



Engineering
made by ThyssenKrupp Fördertechnik

References Referenzen
Références Referencias

Absetzer

Stacker

Jeteur de Stockage

Remblayeuse

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	Typ (Bauart)	Type de construction	Tipo de construcción
Material handled	Fördergut	Produits à manutentionne	Material a transportar
Bulk density t/m ³	Schüttgewicht t/m ³	Densité t/m ³	Densidad aparente t/m ³

Referenzen der Unternehmen Demag, Polysius, O & K, Krupp India, PWH, PHB, Krupp Industrietechnik sowie der heutigen ThyssenKrupp Fördertechnik und ihrer Auslandsgesellschaften.

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

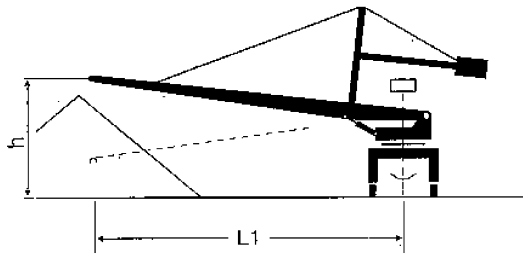
Um die Referenzliste übersichtlich zu halten, beginnt sie mit den Lieferungen aus dem Baujahr 1970.

In order to keep the reference list clear, it is starting with equipment , the year of construction of which was 1970.

Translation	Übersetzung	Traduction	Traducción
Material handled:	Fördergut:	Produit à manutentionner:	Material a transportar:
Alumina	Tonerde	Alumine	Alúmina
Amonium sulphate	Amoniumsulfat	Sulfate d'ammonium	Sulfato de amonio
Apatite	Apatit	Apatite	Apatita
Bauxite	Bauxit	Bauxite	Bauxita
Clay	Ton	Argile	Arcilla
Clinker	Klinker	Clinker	Clinker
Coal	Kole	Charbon	Carbón
Coking coal	Kokskohle	Charbon à coke	Hulla para coque
Coke	Koks	Coke	Coque
Coper concentrate	Kupferkonzentrat	Cuivre concentré	Concentrado de cobre
Crome ore	Chromerz	Minerai de chrome	Mineral de cromo
Dolerite	Dolerit	Dolérite	Dolerita
Fertilizer	Düngemittel	Engrais	Fertilizante
Fertilizer granulate	Düngemittel Granulat	Engrais granulé	Fertilizante granulados
Gold concentrate	Goldkonzentrat	Or concentré	Concentrado de oro
Grain	Getreide	Céréales	Cereales
Gypsum	Gips	Gypse	Yeso
Heavy soda	Schwer-Soda	Soude lourde	Sosa pesada
Iron ore	Eisenerz	Minerai de fer	Mineral de hierro
Iron ore concentrate	Eisenerzkonzentrat	Concentré de minerai de fer	Concent. De mineral de hierro
Kaolin	Kaolin	Kaolin	Caolín
Lime	Kalk	Chaux	Cal
Limestone	Kalkstein	Calcaire	Caliza
Limestone (high grade)	Kalkstein (hochgradig)	Calcaire (à haut degré)	Caliza (de alta concentración)
Limestone-clay-mixture	Kalkstein-Ton-Gemisch	Mélange calcaire / argile	Mezcla de caliza y arcilla
Limestone (marty)	Kalkstein (mergelig)	Calcaire marneux	Caliza margosa
Marl	Mergel	Marne	Marga
Pellets	Pellets	Boulettes	Pellets
Phosphate	Phosphat	Phosphate	Fosfato
Potash	Kalisalz	Potasse	Sales potásicas
Pyrite	Pyrit	Pyrite	Pirita
Quartz rock	Quartgestein	Minerai de quartz	Mineral de cuazo
Raw coal	Rohkohle	Charbon brut	Carbón en bruto
Raw wash coal	Rohwaschkohle	Charbon brut de lavage	Carbón en bruto
Rock salt	Steinsalz	Sel gemme	Sal gema
Rock phosphate	Steinphosphat	Phosphate pierreux	Piedra de fosfato
Run of mine coal	Förderkohle	Charbon tout-venant	Carbón todo uno
Salt	Salz	Sel	Sal
Sand (calcareous)	Sand (kalkhaltig)	Sable (calcaire)	Arena (calcáreo)
Shale	Tonschiefer	Argile schisteuse	Arcilla esquistosa
Sintermagnesite	Sintermagnesit	Magnésite frittée	Magnesita sinterizada
Soda ash	Soda-Asche	Cendre de soude	Ceniza de sosa
Slate	Schiefer	Schoste	Esquisto
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

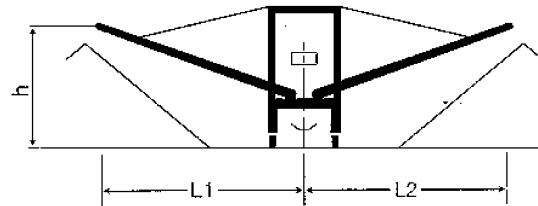
Absetzter / Stacker, Spreader / Jeteur de stockage / Remblayeuse

Typ/Type



$$Ab = \frac{B}{L_1} \cdot h$$

Absetzter
Stacker
Remblayeur



$$AF_{,F} = \frac{B}{L_1 + L_2} \cdot h$$

Flügelabsetzter
Wing-type stacker
Remblayeur a ailes

Abs B . h/L

Ab = Absetzter
L = Auslegerlänge (m)
von Mitte Gerät bis
Mitte Trommel
s = schwenkbar
h = Abwurfshöhe (m)
über Schiene

Abs B . h/L

Ab = Stacker, spreader
L = Boom length (m)
from centre of machine
to centre of pulley
s = Slewable type
h = Discharge height (m)
above rail

Abs B . h/L

Ab = Jeteur de stockage,
remblayeuse
L = Longueur de la fleche (m)
s = Type tournant ,orientable
h = Hauteur de dechargement
(m) au- dessus rail

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
1	August-Thyssen-Hütte AG Duisburg, Germany	Schwelgern, Germany	29,2	13,1	Fine ore, Flux materials	1650 2950 Bridge	1970
2	August-Thyssen-Hütte AG Duisburg, Germany	Schwelgern, Germany	29,2	13,1	Fine ore, Flux materials	1650 2950 Bridge	1970
3	ARBED Division d'Esch-Belval Esch-sur-Alzette Luxembourg	Belval, Luxembourg	37	15	Iron ore, Flux materials	3000 STD-3000/28,2	1970
4	Office Chérifien des Phosphates Rabat, Morocco	Khouribga Morocco		(14)	Iron ore	800 STD-800/26,5	1970
5	ARBED Division de Mines Luxembourgoises Esch-sur-Alzette Luxembourg	Heinzenberg, Luxembourg	27,5	10,75	Iron ore	800 (500 m³) Tripper Car	1972
6	Puerto Autonomo de Huelva, Spain	Huelva, Spain	22	12	Pyrites, ores	1000 STD-1000/18	1972
7	Public Power Corp. Megalopolis, Greece	Megalopolis, Greece			Overburden	2000 STD-2000/15,4	1972
8	Larco, Greece	Euböa, Greece		(10)	Nickel ore	2600 STD-2600/20	1972
9	Public Power Corporation Athens, Greece	Megalopolis, Greece		(9)	Lignite	3250 STD-3250/30	1972
10	Public Power Corporation Athens, Greece	Megalopolis, Greece		(7,5)	Lignite	4350 STD-4350/15	1972
11	Public Power Corporation Athens, Greece	Megalopolis, Greece		(7)	Lignite	1000 STD-1000/15	1972

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
12	S.A. des Ciments Portland de Lorraine Heming, Moselle France	Heming, France	30	11,3	Limestone	500 ST-500/19,8	1973
13	Cia de Mineracao de Ferro e Carvao Rio de Janeiro, Brazil	Fabrica, Brazil	54	14	Iron ore	800 Bridge	1973
14	Cia de Mineracao de Ferro e Carvao Rio de Janeiro, Brazil	Fabrica, Brazil	35	14,7	Iron ore	2000 STD-2000/42,5	1973
15	Agrico Chemical Co Tulsa, Oklahoma USA	Tulsa, USA	36,5	12,8	Phosphate	3000 STD-3000/27,3	1973
16	Fosfatos de Bu-Craa S.A., Madrid, Spain	Puerto El Aaiun Sahara		(16)	Phosphate	2030 STD-2030/38	1973
17	Cimento Tupi S.A. Rio de Janeiro, Brazil	Pedra do Sino Brazil	37,25	15,4	Limestone	500 ST-500/28	1974
18	Technopromimport Moscow, UdSSR for Giprozement	Leningrad UdSSR	29	12	Limestone, Clay	1000 STD-1000/30	1974
19	Technopromimport Moscow, UdSSR for Giprozement	Leningrad UdSSR	38	15	Limestone, Clay	1000 STD-1000/30	1974
20	Centro Industrial de Aratu Cia. Brazil	Aratu-Salvador Brazil	32	10	Ore, Coal, Coke	1200 2400 STD-2400/27	1974
21	Iscor Iron and Steel Corp. Vanderbijl Park South Africa	Vanderbijl Park South Africa	30	10	Iron ore	530 ST-530/20	1974
22	Iscor Iron and Steel Corp. Vanderbijl Park South Africa	Vanderbijl Park South Africa	30	10	Iron ore	530 ST-530/20	1974
23	Iscor Iron and Steel Corp. Vanderbijl Park South Africa	Vanderbijl Park South Africa	High furnace bins		Iron ore	530 Tripper Car	1974

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
24	PPC Pretoria Portland Cement Cy Ltd. Johannesburg, South Africa	Slurry South Africa	38,5	14,8	Limestone	1250 ST-1250/25,4	1974
25	National Mineral Development Corp. Ltd. New Dehli, India	Kiriburu, India		(13)	Iron ore	1800 STD-1800/30	1974
26	National Mineral Development Corp. Ltd. New Dehli, India	Bailadila, India		(12)	Iron ore	2360 STD-2360/30	1974
27	Metallurgimport Moscow, CIS	Kriwoj Rog, CIS		(7,6)	Pellets	1200 ST-1200/18	1974
28	Cementos Uniland S.A., Spain	Villa Franca Spain		(14)	Limestone	2100 STD-2100/24	1974
29	Credito Mobiliario y Financiero BRACHT S.A., Buenos Aires, Argentina	Punta Colorada, Argentina		(12)	Coal	2100 STD-2100/18	1974
30	Technopromimport Moscow, UdSSR for Giprozement	Leningrad UdSSR	29	12	Limestone, Clay	1000 STD-1000/30	1975
31	ENCI Eerste Nederlandse Cement- Industrie N.V. Maastricht, Netherland	Lixhe, Belgium	40	15,6	Marl	600 ST-600/27	1975
32	Dyckerhoff ZW for Intermoselle , Luxembourg	Rumelange, Luxembourg	36,5	15,3	Limestone, Marl	1500 STD-1500/24	1975
33	Industria AG	Rhodesia RSR	26,7	11,6	Limestone	400 STD-400/27	1975
34	New Kerman Cement Kerman, Iran	Kerman Iran	29	11,3	Limestone, Clay	1000 ST-1000/18,4	1975
35	Metallurgimport Moscow, CIS	Kriwoj Rog, CIS		(7,6)	Phosphate	1200 ST-1200/18	1975

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
36	Madras Port Trust, Madras, India	Madras Port, India		(14)	Ore, Pellets	2400 STD-2400/35,1	1975
37	Madras Port Trust, Madras, India	Madras Port, India		(14)	Ore, Pellets	2400 STD-2400/35,1	1975
38	Mormugao Port Trust, Mormugao, India	Mormugao Port, India		(14)	Iron ore, Pellets	2720 STD-2720/35,1	1975
39	Mormugao Port Trust, Mormugao, India	Mormugao Port, India		(14)	Iron ore, Pellets	2720 STD-2720/35,1	1975
40	Mormugao Port Trust, Mormugao, India	Mormugao Port, India		(14)	Iron ore, Pellets	2720 STD-2720/35,1	1975
41	Visakhapatnam Port Trust, Visakhapatnam, India	Visakhapatnam, India		(10)	Ore, Pellets	2700 STD-2700/37,1	1975
42	Visakhapatnam Port Trust, Visakhapatnam, India	Visakhapatnam, India		(10)	Ore, Pellets	2700 STD-2700/37,1	1975
43	ARBED Division d'Esch-Belval Esch-sur-Alzette Luxembourg	Belval, Luxembourg	37	15	Iron ore, Flux materials	3000 STD-3000/28,2	1976
44	SIDMAR Sidérurgie Maritime S.A. Gent, Belgium	Gent, Belgium	36	15	Iron ore, Flux materials	3000 STD-3000/27	1976
45	NIBRASCO Cia. Nipo-Brasileira de Pelotizacao Brazil	Tubarao, Brazil	28	13	Iron ore	8000 STD-8000/24	1976
46	NIBRASCO Cia. Nipo-Brasileira de Pelotizacao Brazil	Tubarao, Brazil	48	13,3	Pellets	1110 ST-1110/29	1976
47	Teheran Cement Co Teheran, Iran	Shemal, Iran	38,5	15	Limestone	1000 ST-1000/25,4	1976

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
48	Marubeni Düsseldorf for Kawasaki Tokyo, Japan	El Asnam, Algeria	40	15,7	Limestone	1500 ST-1500/24,8	1976
49	F. L. Smidth Copenhagen, Denmark	Dubai, UAE	28	11	Limestone	400 ST-400/15,7	1976
50	RAG Ruhrkohle Germany	Lohberg Germany		(15,5)	Coal	2000 ST-2000/45	1976
51	Collin & Co.	Port Waratah, Australia		(15,6)	Coal	2700 ST-2700/28	1976
52	Collin & Co.	Port Waratah, Australia		(15,6)	Coal	2700 ST-2700/28	1976
53	Collin & Co.	Port Waratah, Australia		(15,6)	Coal	2700 ST-2700/28	1976
54	Marubeni Düsseldorf for Kawasaki Tokyo, Japan	Saida, Algeria	24,5	10,7	Limestone	700 ST-700/15,4	1976
55	Marubeni Düsseldorf for Kawasaki Tokyo, Japan	Saida, Algeria	19	9	Clay with sand	260 ST-260/12,8	1976
56	Marubeni Düsseldorf for Kawasaki Tokyo, Japan	Saida, Algeria	15,5	6,9	Flux materials	260 ST-260/10,4	1976
57	Metallurgimport Moscow, CIS	Kriwoj Rog, CIS		(7,6)	Iron ore	1200 ST-1200/18	1976
58	Office Chérifien des Phosphates Rabat, Morocco	Oued Zem, Morocco		(13,5)	Phosphate	2520 STD-2520/24	1976

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
59	Office Chérifien des Phosphates Rabat, Morocco	Oued Zem, Morocco		(14,5)	Phosphate	3830 STD-3830/26	1976
60	Office Chérifien des Phosphates Rabat, Morocco	Oued Zem, Morocco		(14,5)	Phosphate	3830 STD-3830/26	1976
61	Canadian Bechtel Ltd., Edmonton, Canada	Forth Mc Murray Alberta, Canada		(18)	Oil sand	9930 STD-9930/65	1976
62	Canadian Bechtel Ltd., Edmonton, Canada	Forth Mc Murray Alberta, Canada		(18)	Oil sand	9930 STD-9930/65	1976
63	Canadian Bechtel Ltd., Edmonton, Canada	Forth Mc Murray Alberta, Canada		(18)	Oil sand	9930 STD-9930/65	1976
64	Canadian Bechtel Ltd., Edmonton, Canada	Forth Mc Murray Alberta, Canada		(18)	Oil sand	9930 STD-9930/65	1976
65	Duluth Missabe and Iron Range Railway Company, Pittsburgh, Pennsylvania, USA	Minnesota, USA		(20)	Coal	2930 STD-2930/56	1976
66	Polysius AG, Neubeckum, Germany	Yamaha Saudi-Arabia	40	15,7	Limestone, Clay	1100 STD-1100/29	1977
67	LKAB Luossavaara Kiirunavaara AB Stockholm, Sweden	Narvik, Norway	82	31	Ore, Pellets	5000 3250 STD-5000/60	1977
68	F. L. Smidth Copenhagen, Denmark	Sudan	20,4	8	Limestone, Clay	200 ST-200/13,8	1977
69	Canakkale Ciments Sanayii A.S. Turkey	Canakkale Turkey	27,8	11,7	Limestone, Clay	600 STD-600/19,3	1977
70	Metallurgimport, Moscow, CIS	Kriwoj Rog, Ukraine, CIS		(8,5)	Limestone	1500 ST-1500/17,5	1977
71	Metallurgimport Moscow, CIS	Kriwoj Rog, Ukraine, CIS		(8,75)	Pellets	1800 ST-1800/20,5	1977
72	South African Coal Mines	Sasol, South Africa	38	17,15	Coal	900 ST-900/26,4	

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
73	South African Coal Mines	Sasol, South Africa	38	17,15	Coal	900 ST-900/26,4	1977
74	Anglo American South Africa	Kleinkopje South Africa		(12,0)	Coal	1150 STD-1150/22,5	1977
75	Türkiye Demir ve Celik Isletmeleri, Turkey	Karabük, Turkey		(15)	Iron ore	2100 STD-2100/40	1977
76	Türkiye Demir ve Celik Isletmeleri, Turkey	Karabük, Turkey		(15)	Iron ore	2100 STD-2100/40	1977
77	National Iranian Steel Industries Iran	Ahwaz, Iran		(16)	Iron ore	5550 STD-5550/26	1977
78	National Cement Co., NCC, Cairo, Egypt	Heluan, Egypt	36	14	Limestone, Clay	1750 ST-1750/23,4	1978
79	Cimansaz, Teheran, Iran	Loshan II, Iran	29	11,4	Limestone, Clay	800 ST-800/20,4	1978
80	Fuller Company for Suez Cement	Egypt	26	10,5	Clay	350 STD-350/29	1978
81	PHB-Sydney for Thies Brothers, Brisbane, Australia	Black-Water, Australia	39	16,7	Coal	1200 STD-1200/27,7	1978
82	Basse Sambre E.R.I. for SNS, Algeria	S.A. Annaba Algeria	40	12	Coke, Sand, Limestone, Coal	360 STD-360/28	1978
83	VEBA Kraftwerke Ruhr AG Gelsenkirchen-Buer Germany	Scholven, Germany	42	15	Fine coal	1600 STD-1600/35,5	1978
84	Ewald Kohle Germany	Recklinghausen, Germany		(13,0)	Coal	1600 STD-1600/29	1978

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
85	Zeche Auguste Victoria Germany	Marl, Germany		(15,5)	Coal	1800 ST-1800/27,5	1978
86	Office Chérifien des Phosphates Rabat, Morocco	Ben Guerir, Morocco		(16)	Phosphate	1960 ST-1960/31	1978
87	Office Chérifien des Phosphates Rabat, Morocco	Ben Guerir, Morocco		(16)	Phosphate	1960 ST-1960/31	1978
88	Empresa Nacional de Electricidad S.A., Madrid, Spain	Puentes de Garcia Rodriguez Spain			Lignite	10130 STD-10130/34	1978
89	Bechtel Corporation for Detroit Edison Detroit, USA	Monroe, Michigan USA		(10)	Coal	5580 STD-5580/39	1978
90	Bechtel Corporation for Detroit Edison Detroit, USA	Monroe, Michigan USA		(10)	Coal	5580 STD-5580/39	1978
91	Hyundai, Seoul, South Korea	Okke, South Korea	31,5	12,5	Limestone	1000 ST-1000/21	1979
92	Hyundai, Seoul, South Korea	Okke, South Korea	31,5	12,5	Limestone	1000 ST-1000/21	1979
93	Battle River	Canada	39	16,5	Coal	1480 STD-1480/31	1979
94	Ideal Cement, USA	Theodore, USA	40	20,3	Limestone	2000 STD-2000/28	1979
95	SIDOR Siderurgica del Orinoco Matanzas Venezuela	Venezuela		16	Iron ore	4600 STD-4600/29	1979
96	SIDOR Siderurgica del Orinoco Matanzas Venezuela	Venezuela		13,2	Pellets	1400 STD-1400/28,3	1979

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
97	Pacific Power and Light Company, USA	USA		17,7	Coal	2800 ST-2800/29,5	1979
98	N.U. Frans Swarttouw Rotterdam, Netherlands	Rotterdam Netherlands		13,9	Coal	1500 ST-1500/25	1979
99	Ideal Cement, USA	Gaillard, USA	40	20,3	Limestone	2000 STD-2000/28	1980
100	ORBA Lakefront Pellet Terminal Port of Toledo Ohio, USA	Toledo USA	52,2	10,3	Teconite Pellets	3630 STD-3630/54	1980
101	SASOL South Africa			(17)	Coal	1500 ST-1500/27	1980
102	SASOL South Africa			(17)	Coal	1500 ST-1500/27	1980
103	General Mines Soth Africa	Hlobane, South Africa			Coal	300 ST-300/24	1981
104	General Mines Soth Africa	Hlobane, South Africa			Coal	300 ST-300/24	1981
105	Rand Mines, Johannesburg, South Africa	Crown Mines, South Africa			Sand	1000 ST-1000/15,5	1981
106	Northern Lime PWH SA South Africa	South Africa		(15)	Limestone	3300 ST-3300/28,7	1981
107	Batemann S.A. ELB	Asia	44	22	Carnallite	1740 STD-1740/52	1981
108	Marubeni, Düsseldorf for Kawasaki, Tokyo, Japan	Zliten Cement, Libya	30	11,7	Limestone, Clay	1600 ST-1600/20,6	1981

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
109	Marubeni, Düsseldorf for Kawasaki, Tokyo, Japan	Zliten Cement, Libya	22,8	9,9	Limestone, Ore	800 ST-800/15,5	1981
110	BAG Westfalen, Dortmund. Germany	Neumonopol Bergkamen Germany	45,5	18,75	Coal	1850 STD-1850/33,6	1981
111	The Hashemite Kingdom of Jordan The Ports Corp. Aqaba, Jordan	Aqaba Potash Terminal Jordan	38,75	15,5	Potash	500 STD-500/24	1981
112	Mitsubishi Heavy Industry Hiroshima, Japan	Nanking China	34	12,4	Limestone	600 ST-600/23	1981
113	Technopromimport Moscow, UdSSR	Ukraine GUS	29,5	12,7	Limestone	1000 ST-1000/21	1981
114	Technopromimport Moscow, UdSSR	Usbekistan GUS	28	12,7	Shale	1000 ST-1000/21	1981
115	CSR Energy Div. Brisbane, Australia	Drayton Australia		(16,5)	Coal	2000 STD-2000/32,5	1981
116	CSR Energy Div. Brisbane, Australia	Drayton Australia		(16,5)	Coal	2000 STD-2000/32,5	1981
117	Neckarwerke Elektrizitätsver- sorgungs AG, Esslingen, Germany	Altabach Germany		(15)	Coal	1130 STD-1130/36	1981
118	RAG, Essen, Germany	Schachtanlage Pattberg, Moers Germany		(15)	Run of mine coal	2300 ST-2300/26	1981
119	General Mines South Africa	Hlobane, South Africa		(15)	Coal	3000 ST-3000/28,7	1982
120	Anglo American South Africa	Goedehoop South Africa			Coal	1500 ST-1500/28,7	1982

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
121	Anglo American South Africa	Goedehoop South Africa			Coal	1000 ST-1000/24,6	1982
122	Anglo American South Africa	Goedehoop South Africa			Coal	1000 ST-1000/24,6	1982
123	Collin & Co.	Port Waratah, Australia		(15,6)	Coal	2500 ST-2500/45	1982
124	Sappi Ltd. Ngodwana	Ngodwana South Africa		(16)	Wood chips	350 ST-350/25,5	1982
125	Sappi Ltd. Ngodwana	Ngodwana South Africa		(14)	Coal	350 ST-350/25,5	1982
126	ZKS Zentralkokerei Saar, Dillingen, Germany	Dillingen, Germany	33	15	Fine ore	3200 STD-3200/27	1982
127	SNIM, Mauretania,	El Rhein,		(7)	Phosphate	3780 ST-3780/11,2	1982
128	RAG, Essen, Germany	Schachtanlage Friedrich Heinrich, Kamp-Lintfort Germany		(9,5)	Run of mine coal	1600 STD-1600/14 Stationary	1982
129	ZKS Zentralkokerei Saar, Dillingen, Germany	Dillingen, Germany	52,5	22,8	Coal	1200 STD-1200/47	1983
130	Anglo Alpha Union Lime South Africa	Simuma South Africa		(8,1)	Shale	100/200 ST-200/12,5	1983
131	Anglo Alpha Union Lime Ouplass South Africa	Ouplass South Africa		(10,2)	Limestone	500 ST-500/17,5	1983
132	Anglo Alpha Union Lime Ouplass South Africa	Ouplass South Africa		(10)	Limestone	300/500 ST-500/18	1983

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
133	PPC Aghios Dimitrios Greece	Greece		5	Ash	800 ST-800/12	1983
134	EBASCO SERVICES, INC., for NY State Electric & Gas Corp., Jericho, N.Y., USA	Somerset Power Plant Lockport, N.Y. USA		(18)	Coal	2660 STD-2660/47,2	1983
135	RAG, Essen, Germany	Kokerei Prosper, Bottrop Germany		(18)	Coal	1400 ST-1400/28	1983
136	Preußen Elektra Germany	KW Heyden Germany		(15)	Coal	1000 ST-1000/28,5	1984
137	Metallurgimport, Moscow, UdSSR	Vostochnoj, UdSSR		(18)	Coal	6000 ST-6000/30	1984
138	Metallurgimport, Moscow, UdSSR	Vostochnoj, UdSSR		(18)	Coal	6000 ST-6000/30	1984
139	NCC National Cement Company Cairo, Egypt	Tabbin, Egypt	36	14	Limestone, Clay	2500 STD-2500/23,8	1985
140	NCC National Cement Company Cairo, Egypt	Tabbin, Egypt	36	14	Limestone, Clay	2500 STD-2500/23,8	1985
141	Fuller Company Bethlehem, USA	Sangjani, Pakistan	27	10	Limestone	585 ST-585/18,3	1985
142	Gold Bond Building Products, (National Gypsum), USA	Dartmouth, Nova Scotia, Canada		(31,5)	Gypsum	1690 STD-1690/61	1985
143	Neyveli Lignite Corporation Ltd., Neyveli, India	Neyveli, India		(13)	Lignite	2520 STD-2520/19,5	1985
144	Preussag AG, Ibbenbüren, Germany	KW Ibbenbüren, Germany		(17,2)	Raw coal	1100 ST-1100/29,8	1986

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
145	Maschinoimport, Moscow, GUS	Juschnyj I, GUS	37,5	15	Phosphate	1200 max. 1570 ST-1200/26,6	1986
146	China National Technical Import Corporation, China	Qinhuangdao, China	52	20,4	Coal	4860 STD-4860/39,4	1986
147	National Aluminium Comp. Ltd., Damnjodi, India	Orissa, India		(19)	Bauxite	4200 STD-4200/37	1986
148	Minenco Pty. Ltd., Brisbane, Australia	Nanango, Australia		(22)	Coal	2600 STD-2600/50	1986
149	McNally Australia Pty. Ltd., North Ryde, NSW, Australia	Howick Mine, Hunter Valley, Australia		(14,4)	Raw coal	1250 STD-1250/18,7 Stationary	1986
150	McNally Australia Pty. Ltd., North Ryde, NSW, Australia	Howick Mine, Hunter Valley, Australia		(17)	Clean coal	900 STD-900/24,8 Stationary	1986
151	PWH, Madrid, Spain	Endesa-Teruel, Spain	40	15,6	Brown coal	2250 STD-2250/30	1987
152	Zurn-Nepco	Atlantic Gulf, California, USA	30,5	13,7	Wood chips	500 STD-500/32	1987
153	Maschinoimport, Moscow, GUS	Juschnyj II, GUS	37,5	15	Phosphate	1200 max. 1570 ST-1200/26,6	1987
154	Maschinoimport, Moscow, GUS	Juschnyj II, GUS	37,5	15	Phosphate	1200 max. 1570 ST-1200/26,6	1987
155	STEAG AG Essen, Germany	Walsum, Germany		(16,5)	Coal	1600 STD-1600/23,6 Stationary	1987

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
156	ISCOR Steelworks, Pretoria, South Africa	Vandebijlpark, South Africa		(15,2)	Ore, dolomite limestone, slag, scrap	1600 STD-1600/27,7	1987
157	Kick	Schnaittenbach, Germany	45	14	Kaolin, Quartz	900 STD-900/30,8	1989
158	Taiwan Power Co. Taipei, Taiwan	Taichung Fossil Power Plant, Taiwan		(15)	Coal	4400 STD-4400/50	1989
159	Alcan, Quebec, Canada	Port Alfred, Quebec, Canada		(17,5)	Coke	1365 STD-1365/38	1989
160	Alcan, Quebec, Canada	Port Alfred, Quebec, Canada		(17,5)	Coke	1365 STD-1365/38	1989
161	Kobe Steel Ltd. Japan	Hoze Mahi, Iran	37	14,5	Limestone	200 ST-200/24,5	1990
162	Kobe Steel Ltd. Japan	Hoze Mahi, Iran	37	14,5	Limestone	280 ST-280/24,5	1990
163	Kawasaki Heavy Ind. Ltd. Japan	Beni Suef, Egypt	23	10,5	Clay	700 ST-700/15,6	1990
164	Marubeni, Düsseldorf, Germany	Vostochnoj, UdSSR	45	12	Coal	3000 STD-3000/35	1990
165	Marubeni, Düsseldorf, Germany	Vostochnoj, UdSSR	45	12	Coal	3000 STD-3000/35	1990
166	Kawasaki Heavy Ind. Ltd. Kobe, Japan	Beni Suef, Egypt	32	12,2	Limestone	1800 ST-1800/20,7	1990
167	Port of Quebec Corp., Quebec, Canada	Quebec City, Canada		(17)	Coal, Iron ore, Pellets	2500 STD-2500/37	1990
168	BAG Westfalen, Dortmund, Germany	Kokerei Kaiserstuhl Dortmund, Germany	56	23,5	Coal	1200 ST-1200/40	1991

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
169	Ilam Cement Co., Iran	Ilam, Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1991
170	Khorasan Cement Co., Iran	Khorasan, Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1991
171	Stadtwerke Düsseldorf Germany	KW-Lausward, Düsseldorf Germany	40,8	16	Coal	800 STD-800/32	1991
172	The New Brunswick Electric Power Commission, Fredericton, NB, Canada	Belledune Generating station, Belledune, NB Canada		(30,5)	Coal	2500 STD-2500/34 stationary	1991
173	Gordonstone Coal Management Pty. Ltd., Brisbane, Qld., Australia	Emerald, Qld. Australia		(17)	Raw coal	3300 ST-3300/26,5	1991
174	Gordonstone Coal Management Pty. Ltd., Brisbane, Qld., Australia	Emerald, Qld. Australia		(19)	Coal	800 STD-800/30	1991
175	Gordonstone Coal Management Pty. Ltd., Brisbane, Qld., Australia	Emerald, Qld. Australia		(19)	Coal	800 STD-800/30	1991
176	Amcoal	Landau	45	18,8	Raw coal	2075 ST-2075/32,5	1991
177	Amcoal	Landau	45	18,8	Coal	1166 ST-1166/34	1991
178	Koryo Cement Co. Hong Song Industrial South Korea	Koryo Cement South Korea	30,2	12	Limestone	1200 ST-1200/19,5	1992
179	Kobe Steel Ltd. Kobe, Japan	FMO, Venezuela	30	10,9	Iron ore	1500 STD-1500/22,7	1992
180	Kobe Steel Ltd. Kobe, Japan	FMO, Venezuela	50	15	Pellets	420 ST-420/32,6	1992

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
181	SNIM Société Nationale Industrielle et Minière Mauretania	M'Haoudat, Mauretania	41	15	Iron ore	3000 STD-3000/41,5	1992
182	Ardebil Cement Co.	Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1992
183	SAIL, Steel Authority of India, New Delhi, India	Durgapur Steel Plant, Durgapur, West Bengal, India		(13,5)	Mixed sinter	900 STD-900/25,7	1992
184	SAIL, Steel Authority of India, New Delhi, India	Durgapur Steel Plant, Durgapur, West Bengal, India		(7,7)	Coal	720 Double boom Wing type	1992
185	SAIL, Steel Authority of India, New Delhi, India	Durgapur Steel Plant, Durgapur, West Bengal, India		(7,7)	Coal	720 Double boom Wing type	1992
186	BHP Iron Ore	Nelson Point, Australia	67	18	Iron Ore	5950 TPH ST-1500/60	1992
187	Industrias Mecanicas del Noroeste S.A. IMENOSA, Madrid, Spain	Office Chérifien des Phospates, El Wafi, Morocco		(16)	Phosphate	2980 ST-2980/38	1992/93
188	Industrias Mecanicas del Noroeste S.A. IMENOSA, Madrid, Spain	Office Chérifien des Phospates, El Wafi, Morocco		(16)	Phosphate	2980 ST-2980/33	1992/93
189	Industrias Mecanicas del Noroeste S.A. IMENOSA, Madrid, Spain	Office Chérifien des Phospates, El Wafi, Morocco		(16)	Phosphate	1330 ST-1330/33	1992/93
190	Industrias Mecanicas del Noroeste S.A. IMENOSA, Madrid, Spain	Office Chérifien des Phospates, El Wafi, Morocco		(16)	Phosphate	2980 STD-2980/38	1992/93
191	Khuzestan Cement Co. Iran	Iran	32	12,5	Limestone	1000 ST-1000/21,7	1993

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
192	Khuzestan Cement Co. Iran	Iran	32	12,5	Limestone	1000 ST-1000/21,7	1993
193	Hegmatan-Hamadan Cement Co. Iran	Iran	32	12,5	Limestone, shale	1000 ST-1000/21,7	1993
194	Bojnurd Cement Co. Iran	Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1993
195	Hormozgan Cement Co., Iran	Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1993
196	Hormozgan Cement Co., Iran	Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1993
197	Kordestan Cement Co., Iran	Iran	32	12,5	Limestone	1000 ST-1000/21,7	1993
198	Powergen Great Britain	Liverpool, Great Britain	65,5	20	Coal	3000 ST-3000/48	1993
199	RE & C, Denver USA	Lagoven, Venezuela	38,1	16	Petrol coke	400 ST-400/27,6	1993
200	Sharoud Cement Co., Iran	Iran	32	12,5	Limestone, Marl	1000 ST-1000/21,7	1993
201	Asquarabad Cement Co., Iran	Iran	20	7,8	Limestone	270 ST-270/14	1993
202	Ben Vid Cement Co., Iran	Iran	20	7,8	Limestone	270 ST-270/14	1993
203	National Thermal Power Corporation Ltd.	Dadri, India	35.0	12.0	Ash	2000 TPH ST-2000/26.5	1993
204	Ferrostaal AG, Essen, Germany	Chador Malu Iron Ore Project, Iran	35	14,7	Iron ore	2300 STD-2300/42	1994

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
205	Poltava Erzkombinat Poltavskij GOK	Ukraine GUS	45	19,5	Iron ore, Quartz	3000 ST-3000/39	1994
206	National Iranian Steel Company NISCO, Iran	Bandar Abbas Iran		(13)	Iron ore, coal, coke	2650 STD-2650/38	1994
207	National Iranian Steel Company NISCO / Iran	Bandar Abbas Iran		(13)	Iron ore, coal, coke	2650 STD-2650/38	1994
208	Unicem Zimbabwe	Colleen Bawn, Zimbabwe	34	12,4	Limestone	500 ST-500/23	1994
209	Cementos Nacionales Dominican Republic	Dominican Republic	25	9,76	Limestone, Clay	1100 ST-1100/17,6	1995
210	Société des Ciments Libanais Lebanon	Chekka, Lebanon	35	13,67	Limestone, Marl, Clay	1500 ST-1500/26,6	1995
211	Summit Cement Philippines	Cebu, Philippines	30	11,72	Coal	400 ST-400/20,6	1995
212	Iscor South Africa	Thabazimbi South Africa	25	10	Iron ore	1000 ST-1000/18	1995
213	SASOL South Africa	Twistdraai South Africa	46	18	Raw coal	2620 STD-2620/33,6	1995
214	SASOL South Africa	Twistdraai South Africa	46	18	Coal	1136 STD-1136/33,6	1995
215	Juan Minetti S.A. Argentina	Argentina	37	12,95	Limestone	1000 ST-1000/24,5	1996
216	Hanjung South Korea	South Korea	43,6	15,7	Coal	600 ST-600/26	1996
217	Egyptian Cement Co., Egypt	Egypt	18	8	Flux materials	1200 ST-1200/13,2	1996

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
218	Egyptian Cement Co., Egypt	Egypt	18	8	Flux materials	150 ST-150/13,2	1996
219	Iscor, South Africa	Leeuwpn South Africa	37	14,5	Coal	250 ST-250/24,8	1996
220	Iscor, South Africa	Leeuwpn South Africa	37	14,5	Coal	250 ST-250/24,8	1996
221	Iscor, South Africa	Leeuwpn South Africa	37	14,5	Coal	250 ST-250/24,8	1996
222	Iscor South Africa	Leeuwpn South Africa	37,4	12,9	Coal	250 STD-250/24,9	1996
223	Tamil Nadu Electricity Board	Tuticorin, India	25	8.75	Coal	2000 TPH ST-2000/20.0	1996
224	Minera Loma de Niquel S.A. Venezuela	Tiara Venezuela	44	15,4	Serpentinized Periodit	554 STD-554/49	1997
225	BHP HBI	Port Hedland, Australia	40	15.5	Iron Ore Concentrate	750 TPH ST-800/33	1997
226	BHP HBI	Port Hedland, Australia	38	15	HBI Briquettes	1000TPH ST-800/46.5	1997
227	Hitachi for Enersur Japan	Ilo Peru	33,3	14	Coal	1800 STD-1800/22,1	1998
228	CVRD, Mine Carajás	Pará, Brazil	26.7	13	Iron Ore	4.500 tph ST-1200/26	1998
229	MBR, Mine Águas Claras	Nova Lima-MG, Brazil	15,4	12	Iron Ore	3.500 tph ST-1200/48.3	1999
230	MBR, Mine Águas Claras	Nova Lima-MG, Brazil	15,4	12	Iron Ore	1480 tph ST-1000/23.5	1999
231	Ingwe Middelburg Mine Services	Middelburg, Mpumalanga, South Africa	38	16	Coal	1500 TPH ST-1500/24	1999
232	Alcoa	Pinjara, Australia	42	18	Bauxite	2400 TPH ST-1400/34	1999
233	Rio Tinto / Hamersley Iron	Yandi, Australia	36	15	Iron Ore	3500 TPH ST-1200/23	2000
234	Babcock Borsig Power	Elbistan "B" Turkey	34,7	14	Lignite	6000 STD-6000/36,5	2000

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
235	Egyptian Cement Co., Egypt	Egypt	18	8	Flux material	1200 ST-1200/13,2	2000
236	BHPBilliton Iron Ore	Yandi, Australia	94	42	Iron Ore		2001
237	CVRD, Mine Carajás	Pará, Brazil	39	19,1	Iron Ore	4.770 tph ST-1600/47.5	2001 / 2002
238	CVRD, Pellet Plant	São Luiz-Ma, Brazil	12	9,5	Pellets	1500 tph ST-1200/21.1	2001 / 2002
239	MBR	Tamanduá-MG, Brazil	18.2	14.2	Iron Ore	3.600 tph ST-1200/30.3	2001 / 2002
240	CMM	Vazante-MG, Brazil	9,5	7.25	Willemita	194 tph ST-610/13	2001 / 2002
241	Vizag Port Trust	Vishakapatnam, India	36	10	Ore Pellets	2700 TPH ST-2700/37.125	2002
242 / 243	BHPBilliton Iron Ore	Finucan Island, Australia	45	16	Iron Ore	10,000 TPH ST-1800/45	2003
244	Petrolera Zuata C.A. Jose, Venezuela	Jose, Venezuela	43	10,9	Sulphur	200 ST-200/27,2	2003
245	Coal Terminal A.S. Port of Muuga Tallinn, Estonia	Tallinn, Estonia	48	18	Coal	2000 ST-2000/41.5	2004
246	Cimenterie de Ain El Kebira	Ain El Kebira Algeria	22,8	14,1	Additives	500 ST-500/15.5	2004
247	Tehran Cement Co.	Tehran, Iran	34	13.28	Limestone/Clay	900 ST-900/23.3	2004
248	Hegmatan Cement Co.	Hegmatan, Iran	34	13.28	Limestone/Clay	1000 ST-1000/23.3	2004
249	Société des Ciments de Sour El Ghozlane	Sour El Ghozlane Algeria	34	14	Limestone	1200 ST-1200/23.5	2004
250	Firuzkuh Cement Co.	Firuzkuh Iran	32	12.5	Limestone/Clay	1250 ST-1250/21	2004
251	Hismelt	Kwinana, Australia	36	15	Iron Ore, Dolomite, Coal	2150 TPH ST-1200/23	2004
252	Comalco Alumina	Weipa, Australia	50	16	Bauxite	3600 TPH ST-1500/43	2004
253	Omran Anarak Cement Co.	Delijan Plant, Iran	32	12.5	Limestone/Clay	1250 ST-1250/21	2004

Stacker

No.	Purchaser	Location	Stockyard		Material handled	Capacity t / h Type	Year of const.
			Pile Width m	Pile Height m			
254	Ilam Cement Co.	Ilam, Iran	32	12.5	Limestone/Marl	1300 ST-1300/21	2004
255	Mazandaran Cement Co.	Mazandaran, Iran	32	12.5	Limestone/Clay	1800 ST-1800/21	2004
256	Gilan Sabz Cement Co.	Gilan Sabz, Iran	34	13.28	Limestone/Clay	1000 ST-1000/23	2005
257	Shargh Cement Co.	Mashad, Iran	34	13.28	Limestone/Marl	1300 ST-1300/23	2005
258	Nahavand Cement Co.	Nahavand, Iran	32	12.50	Limestone/Clay	1000 ST-1000/21	2005
259	Lamerd Cement Co.	Lamerd, Iran	32	12.50	Limestone/Clay/ Marl	1250 ST-1250/21	2005
260	Sardar Cement Co.	Sardar, Iran	32	12.50	Limestone/Marl	1300 ST-1300/21	2005
261	Khuzestan Cement Co.	Khuzestan, Iran	34	13.28	Limestone/Clay	1900 ST-1900/23	2005
262	Jovein Cement Co.	Jovein, Iran	34	13.28	Limestone/Marl	1300 ST-1300/23	2005



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