



Engineering
made by ThyssenKrupp Fördertechnik

References Referenzen
Références Referencias

Portal Scraper
Semi-portal Scraper

Vollportalkratzer
Halbportalkratzer

Gratteurs portique
Gratteurs semi-portique

Rascadores de pórtico
Rascadores de semipórtico

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
Type designation:	Typ-Bezeichnung	Désignation du type:	Designación del tipo:
Example: VP2-600/40	Beispiel: VP2-600/40	Exemple: VP2-600/40	Ejemplo: VP2-600/40
VP2 = portal scraper with two chain scrapers	VP2 = Portalkratzer mit Haupt- u. Neben- kettenkratzer	VP2 = Grateur portique à chaines gratteuses des deux côtés	VP2 = Rascador de pórtico principal+secundario rascadore
600 = Reclaim. Rate t/h	600 = Ausstapelleistung t/h	600 = Débit de reprise t/h	600 = Capacidad t/h
40 = Rail gauge m	40 = Spurweite m	40 = Empattement m	40 = Ancho de la via m

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

Reclaiming scrapers / Abbaukratzer / Gratteurs de reprise

Bauart/Sinnbild
Type/Symbol
Type/Symbole

Bezeichnung
Notation
Désignation

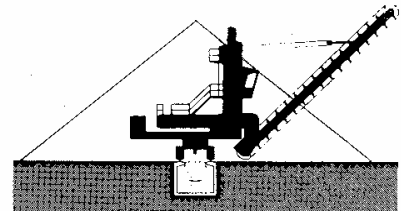
ZWD



Zweischienen-
Schwenkkratzer
mit 2 Schwenkwerken

Twinrail slewing scraper
with double slewing gear

Grateur-birail pivotant
à double orientation



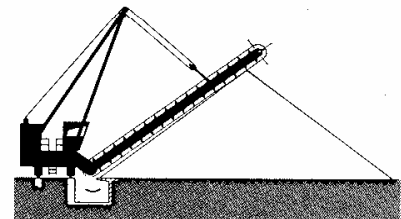
SK



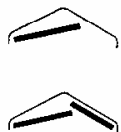
Seitenkratzer

Side scraper

Grateur latéral



VP



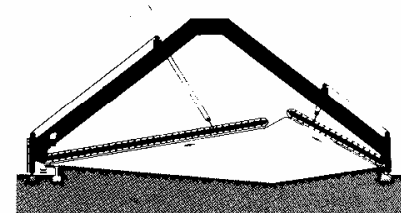
Vollportalkratzer

Portal scraper

Grateur portique

VP 1 mit Kratzerketten nur auf einer Seite
with scraper chains one side only
à chaînes gratteuses d'un côté

VP 2 mit Kratzerketten auf beiden Seiten
with scraper chains both sides
à chaînes gratteuses des deux côtés



Die Zahl hinter dem Querstrich gibt die Leistung in t/h wieder, die Zahl hinter dem Schrägstrich die Kratzerlänge (bei ZWD- und SK-Kratzern), die Spannweite (bei VP- und LHO-Kratzern) oder den Durchmesser des Kreislagere (bei KHO-Kratzern), jeweils in m.

The figure behind the dash shows the capacity in t/h, the figure behind the inclined stroke the length of scraper (with ZWD- and SK-type scrapers), the span (with VP- and LHO-type scrapers), or the circular store diameter (with KHO-type scrapers) in m.

Le chiffre après le trait d'union marque le débit en t/h, celui après la barre oblique la longueur du grateur (pour grateurs ZWD et SK), la portée (s'il s'agit de grateurs VP ou LHO), ou diamètre parc polaire (pour grateurs KHO) en m.

Reclaiming scrapers / Abbaukratzer / Gratteurs de reprise

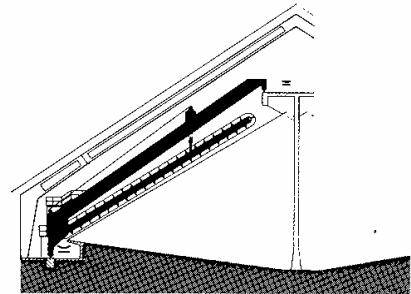
Bauart/Sinnbild
Type/Symbol
Type/Symbole

Bezeichnung
Notation
Désignation

HP



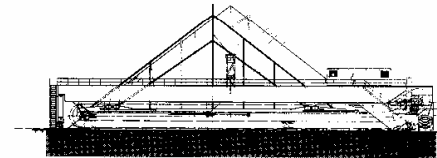
Halbportalkratzer
Semi-portal scraper
Gratteur semi-portique



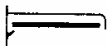
LHO



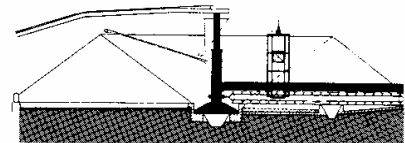
Brücken-(Homogenisierungs-)
Kratzer für Längslager
Bridge-type (homogenizing)
scraper for longitudinal store
Gratteur horizontal pour parc
longitudinal



KHO



Brücken-(Homogenisierungs-)
Kratzer für Kreislager
Bridge-type (homogenizing)
scraper for circular store
Gratteur horizontal pour parc
polaire



Beispiele:

SK-400/16

Seitenkratzer, 400 t/h Leistung, 16 m
Kratzerlänge

VP1-280/32

Vollportalkratzer mit einer oder mehreren
Hauptkratzerketten, 280 t/h Leistung,
32 m Spannweite

VP2-800/47

Vollportalkratzer mit Haupt- und Neben-
kratzerketten, 800 t/h Leistung, 47 m
Spannweite

LHO-400/42

Brückenkratzer für Längslager, 400 t/h
Leistung, 42 m Spannweite

KHO-750/86

Brückenkratzer für Kreislager mit 86 m
Durchmesser, 750 t/h Leistung

Examples:

SK-400/16

Side scraper, capacity 400 t/h, length
of scraper 16 m

VP1-280/32

Portal scraper capacity 280 t/h, span 32,
with scraper chain one side only

VP2-800/47

Portal scraper capacity 800 t/h, span 47 m,
with scraper chains both sides

LHO-400/42

Bridge-type scraper for longitudinal store,
capacity 400 t/h, span 42 m

KHO-750/86

Bridge-type scraper for circular store,
86 m Ø, capacity 750 t/h

Exemples:

SK-400/16

Gratteur latéral, débit 400 t/h, longueur du
gratteur 16 m

VP1-280/32

Gratteur portique débit 280 t/h, portée 32 m,
à chaîne gratteuse d'une côte

VP2-800/47

Gratteur portique débit 800 t/h, portée 47 m,
à chaînes gratteuses des deux côtes

LHO-400/42

Gratteur horizontal pour parc longitudinal,
débit 400 t/h, portée 42 m

KHO-750/86

Gratteur horizontal pour parc polaire
86 m Ø, débit 750 t/h



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
1 - 2	CSL Chemische Werke Saar-Lothringen GmbH, Besch	Besch, Germany	1967	VP2-300/43	Urea	0,75
3 - 4	CPC Compagnie des Potasses du Congo Paris / France	Pointe Noire, Kongo	1968	VP2-800/47	Potash	1,1 - 1,2
5	Salzgitter Chemie Werk Embesen	Embsen, Germany	1968	VP2-200/43	Fertilizer	1,0
6 - 7	AB Förenade Superfosfatfabriken Landskrona	Landskrona Sweden	1968	HP-350/20	Fertilizer	1,0
8 - 9	AB Förenade Superfosfatfabriken Landskrona	Landskrona Sweden	1969	HP-120/23	Potash	1,2 - 1,4
10	Wedag, Bochum for Cement Faktory Benghazi Libya	Benghazi, Libya	1970	HP-120/23	Limestone, Clay	1,6
11 - 12	Skodaexport, Prague for Cementarne a. Vapenky-Generalne Riaditelstvo Pionierska, Trecin / Czech. Republic	Turna, Czech. Republic	1970	VP2-230/33	Limestone, Clay, Gypsum	1,4
13	Skodaexport, Prague for Cementarne a. Vapenky-Generalne Riaditelstvo Pionierska, Trecin / Czech. Republic	Turna, Czech. Republic	1970	HP-5/10	Ore	1,8 - 2,3
14 - 15	Montecatini-Edison S.p. A Milan / Italy	Prto Marghera, Italy	1970	HP-200/23	Salt	1
16 - 17	Masino-Impex, Zagreb, for Tvornica Cementa 'Sloboda', Zagreb	Zagreb-Podsused, Yugoslavia	1971	HP-100/19	Limestone, Clay	1,5
18 - 19	S.N.M.C., Alger for Cimenterie de 'Meftha'	Meftha, Algeria	1971	HP-120/20	Marl, Sand	1,6
20	Rudolf Rohrbach KG Dotternhausen	PZW-Dottern- hausen, Germany	1971	VP1-150/23	Clay	1,4 - 1,5
21	ICI Agricultural Division Billingham Teeside England	Tees Dock, England	1972	VP2-1000/48	Potash	1,2



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
22	Smidth & Co., Croydon, for Caribbean Cement Co. Ltd., Jamaica	Kingston, Jamaica	1972	VP2-500/42	Limestone, Clay	1,4
23	Portland-Zementwerke, Heidelberg AG	Schelklingen, Germany	1972	VP2-400/24	Limestone, Marl	1,4
24 - 25	Wedag, Bochum for The Libyan Cement Co., Benghazi	Benghazi, Libya	1972	HP-120/23	Limestone, Clay	1,4 - 1,6
26 - 27	F. L. Smidth, Copenhagen for Pretoria Portland Cement Co. Johannesburg	Johannesburg, South Africa	1973	VP2-200/26	Limestone	1,3
28	Krupp, Rheinhausen for Aluminium Oxid Stade GmbH, Bützfleth	Bützfleth, Germany	1973	VP2-800/54	Bauxite	1,35
29	Agrico Chemical Co. Tulsa (Okla.), USA	Faustina Works Donaldsonville, (La.), USA	1973	VP2-1200/52	Fertilizer	0,8 - 0,96
30	Canada Cement Lafarge Ltd., Montreal / Canada	St. Constant (Quebec) Canada	1973	VP1-200/24	Clinker	1,5
31	LKAB-Luossavaara-Kiirunavaara Aktiebolaget Stockholm / Sweden	Lulea, Sweden	1973	HP-50/11	Bentonite	1,1
32	CIMENTAS Izmir Cimento Fabrikasi, Izmir	Izmir, Turkey	1973	VP1-320/27	Limestone	1,5
33 - 34	F. L. Smidth, Copenhagen over Japan for North Korea	North Korea	1973	VP2-150/32	Gypsum, Coal, Ore	1,2 - 1,8
35	Canada Cement Lafarge Ltd., Montreal / Canada	Exshaw (Alberta) Canada	1974	VP2-200/33	Clinker	1,5
36	KHD, Cologne, for Cementos Especiales S.A., Madrid / Spain	Arguineguin (Gran Canaria), Spain	1974	HP-250/29	Limestone, Clay	1,0 - 1,4



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
37 - 38	IVP-Instituto Venezolano de Petroquimica Caracas / Venezuela	Venezuela, YV	1974	HP-200/32	Fertilizer	0,85 - 1,4
39 - 40	Kellogg Continental B.V., Amsterdam for China	China, TJ	1974 1975 1976	VP2-240/48	Urea	0,75
41 - 42	Hidrogradnja, Sarajevo for Tvornica Cementa Kakanj / Yugoslavia	Kakany, Yugoslavia	1974	VP2-300/42	Marl, Slag, Gypsum	1,0 - 1,8
43	Fuller Company Catasauqua (Pa.) / USA for Chia Hsin Cmenet, Taiwan	Kaoshiung, Taiwan	1974	VP1-280/32	Limestone	1,4
44	Polysius Corporation Atlanta (Ga.) / USA for Florida Mining, Materials Corp. Brooksville, Fla.	Brooksville, Florida	1974	VP2-280/27	Limestone	1,5
45	UCC-Universal Cement Corp. Ltd., Taipei / Taiwan	Alien Plant, Kaoshiung, Taiwan	1974	VP2-500/42	Limestone, Clay	1,5
46	Polysius AG, Neubeckum for South-East Cement, Taiwan	Kaoshiung, Taiwan	1974	HP-250/22	Limestone	1,5 - 1,6
47 - 48	Polysius Ltd. Ascot / England for Yugoslavia	Beocin, Yugoslavia	1975	VP2-350/38	Limestone, Marl	1,5 - 0,85
49	Polysius, Madrid	Freiver, Spain	1975	VP2-200/26	Clay	1,5
50 - 51	Stone & Webster, London for Shahpur Chemical Company Teheran / Iran	Bandar-Shahpur, Iran	1975	VP2-400/42	Urea	0,75
52	Stone & Webster, London for Shahpur Chemical Company Teheran / Iran	Bandar-Shahpur, Iran	1975	VP2-135/30	Fertilizer DAP	0,89
53 - 54	Humboldt-Wedag, Cologne for National General Organization for Industrialization, Tripoli / Libya	Souk-el-Khamis, Libya	1975	VP2-300/42	Limestone, Clay, Sand	1,5



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
55 - 56	Humboldt-Wedag, Cologne for The Libyan Cement Co. Benghazi	Benghasi, Libya	1975	HP-170/23	Limestone	1,4 - 1,6
57	F. L. Smidth & Cie France, Paris for Nusantara Cilacap	Nusantara (Java) Indonesia	1975	VP2-150/32	Lime	1,4
58 - 59	Heurtey Industries	H.P. China, TJ	1975	VP2-250/42	Urea	0,75
60 - 61	V / O Techmashimport Moscow / Russia	Odessa / Russia	1976	VP2-500/42	Urea	0,75
62	Citadel Cement Corp. Demopolis, Ala / USA	Demopolis / Alabama	1976	VP2-200/32	Clinker	1,5
63	Humboldt-Wedag, Cologne for Zementwerk Ain-El-Kébira, Setif	Setif, Algeria	1976	VP1-60/33	Marl	1,5
64 - 65	V / O Techmashimport Moscow / Russia	Ventspils / Russia	1976	VP2-1500/48	Potash	1,5 - 1,3
66	Anglo-American Corp. Johannesburg / South -Africa	Landau, South Africa	1976	VP1 1000/25	Coal	1,15 - 1,3
67	F.L. Smidth, Paris for Anglo Alpha Cement	South Afrika, ZA	1976	VP2-300/28	Clay, Shale	1,2
68 - 69	Humboldt-Wedag, Köln for National General Organization for Industrialization, Tripoli / Libya	Havari, Libya	1976	VP2-300/42	Limestone, Clay, Sand	1,5
70	M. W. Kellog Company Houston (Texas) / USA	Pusri (Sumatra) Indonesia	1976	VP2-600/50	Urea	0,75
71	M. W. Kellog Company Toronto / Canada for Cominco Ltd. Trail B. C. Canada	Carseland, Alberta, Canada	1976	VP2-500/48	Urea	0,77
72	Uzin Export-Import Bucharest / Romania	Nasice, Yugoslavia	1976	VP2-200/42	Limestone, Clay, Gypsum	1,6 - 1,8
73	Cimento Atol Alagoas / Brazil	Alagoas / Brazil	1976	VP2-300/29	Limestone, Clay, Clinker	1,4 - 1,8
74	KHD, Cologne	Neka / Iran	1976	VP1-100/23	Clay	1,6



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
75	Petrofertil, Salvador (Bahia), Brazil	Aratu / Brazil	1977	VP2-750/48	Urea	0,77
76	Petrofertil, Salvador (Bahia), Brazil	Camacari, Brazil	1977	VP2-300/48	Urea	0,77
77 - 78	The Hashemite Kingdom of Jordan The Ports Corporation Aqaba	Aqaba, Jordan	1977	VP2-2100/42	Phosphate	1,43
79	Zementwerk Canakkale	Canakkale, Turkey	1977	VP1-500/30	Limestone, Clay	1,5
80	Marubeni / Kawasaki, Düsseldorf	El Asnam, Algeria	1977	VP2-250/42	Limestone	1,6
81 - 82	Davy Power Gas Ltd., U.K.	Shiraz, Iran	1977	VP2-350/42	Urea	0,7
83	Davy Power Gas Ltd., U.K.	Shiraz, Iran	1977	VP2-180/42	Ammonium nitrate	1
84	Uzinimport-export Romania	Sheik Said, Syria	1977	VP2-400/34,5	Limestone	1,5
85	Anglo-American Corp. Johannesburg / South -Africa	Landau II, South Africa	1977	VP1-2000/25	Coal	0,8
86	Anglo-American Corp. Johannesburg / South -Africa	Landau III, South Africa	1977	VP1-1000/25	Coal	0,8
87	F.L. Smidth, Paris	Novi Popovac Yugoslavia	1977	VP2-150/32	Sand, Slag, Gypsum	1,4
88	Toyo Eng. Corp.	Russia	1977	VP2-70/32	Potash	1,1
89	Toyo Eng. Corp.	Russia	1977	VP2-70/32	Potash	1,1
90	Toyo Eng. Corp.	Russia	1977	VP2-35/32	Potash	1,1
91	Creusot Loire-Paris for General Fertilizer Cy.	Homs, Syria	1977	VP2-150/48	Urea	0,75
92	Centunion Madrid for Hornos Ibericos	Spain	1977	VP2-350/32,5	Puzzolan, Gypsum, Limestone	1,2 - 1,5



Portal scraper reclaimer
Semi-portal scraper reclaimer

No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
93	Serete Paris for Glacerie de Boussois	Boussois, France	1977	VP2-100/39	Sand, Dolomite, Limestone	1,65 - 1,89
94 - 95	APC Alexandria Portland Cement Alexandria, Egypt	Alexandria, Egypt	1977	VP2-360/36	Limestone, Marl	1,25 - 1,6
96 - 97	Sybeta, Belgium	Alkahim, Iraq	1977	VP2-300/41	TSP, NPK, MAP	0,75 - 1,1
98	Tebodin, Netherlands for N.E.T. Ireland	Marino Point, Ireland	1977	VP2-400/48	Urea	0,7
99 - 100	Creusot Loire-Paris for Police Fertilizer Complex	Poland	1978	VP2-250/38	NPK	1
101	Creusot Loire-Paris for Police Fertilizer Complex	Poland	1978	VP2-50/38	KCL	1,15
102	Creusot Loire-Paris for Police Fertilizer Complex	Poland	1978	VP2-270/38	Urea	0,75
103 - 104	OCP-Maroc	Safi, Morocco	1978	HP-600/21	Fertilizer	0,8
105 - 106	Südbayerische Portland Zementwerke Gebr. Wiesböck	Rohrdorf, Germany	1978	VP2-200/26	Limestone, Clay	1,5
107 - 108	PHB, Australia for Thiess Brothers, Brisbane	Black-Water Australia	1978	VP2-800/42	Coal	0,96
109	Polysius Corporation Atlanta (Ga.) / USA for General Portland Inc.	New Braunfels Texas / USA	1978	VP1-300/33,5	Coal	0,8
110	Polysius Corporation Atlanta (Ga.) / USA for General Portland Inc.	New Braunfels Texas / USA	1978	VP1-400/36	Limestone	1,44
111	Alberto Power Ltd., Calgary, Alta Canada	Battle River Alberta, Canada	1978	VP1-455/43	Coal	0,67
112	Fives-Cail-Babcock, Paris France	Asia	1978	VP2-1500/50	Phosphate	1,45



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
113	Polysius Corporation Atlanta (Ga.) / USA for General Portland Inc.	New Braunfels Texas / USA	1979	VP2-200/23	Clay	1,6
114 - 115	Aluminium Company of Canada Ltd. Montreal, Queb. Canada	Aughinsh Ireland	1979	VP2-800/60	Bauxite	1,28
116	Ideal Basic Industries Cement Div. Denver, Col. / USA	Theodore-Plant, Alabama	1979	VP1-1000/43	Limestone	1,2
117	Ideal Basic Industries Cement Div. Denver, Col. / USA	Gailard-Quarry, Alabama	1979	VP1-2000/43	Limestone	1,2
118	TEC Tojo Eng. Comp. Chiba, Japan over IPS, Luxembourg	China, TJ / VRC	1979	VP2-250/42	Fertilizer	1,04
119	Titan Cement Co. S.A.	Werk Patras / Greece	1979	VP1-280/33	Clinker, Gypsum, Santurin-Erde	1,3 1,4 1
120	Manufacture de Cemento Portland La Cruz Azul, Mexico D.F.	Lagunas, Mexico	1980	VP1-200/29	Clay	1,5
121	Manufacture de Cemento Portland La Cruz Azul, Mexico D.F.	Hidalgo, Mexico	1980	VP2-200/33	Clay	1,5
122	Manufacture de Cemento Portland La Cruz Azul, Mexico D.F.	Lagunas, Mexico	1980	HP-250/68	Clinker	1,6
123	Ferimport, Yugoslavia	Sibenik, Yugoslavia	1980	HP-250/29	Phosphate	1,35
124 - 125	Jugotekna Belgrad / Yugoslavia for RTB BOR RO HI ZORKA	Subotica, Yugoslavia	1980	VP2-250/37,5	Fertilizer	0,7
126 - 127	INA Commerce Zagreb / Yugoslavia for INA Petrokemija	Kutina, Yugoslavia	1980	HP-180/23	NPK, MAP	0,85 - 1,2
128	INA Commerce Zagreb / Yugoslavia for INA Petrokemija	Kutina, Yugoslavia	1980	VP2-345/48	Urea	0,7
129 - 130	Fertimex, Mexico	Lazaro Cardenas, Mexico	1980	VP2-800/50	DAP, NPK, Urea	0,7



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
131 - 132	Interalumina, Caracas Venezuela	Puerto Ordaz Venezuela	1980	VP2-800/55	Bauxite	1,2
133	Jordan Fertilizy Industries Amman / Jordan	Aqaba, Jordan	1980	VP2-1500/45	MAP, DAP	0,95
134	International Minerals & Chemicals Corporation Nichols, Fla. / USA	Nichols / Florida	1980	VP2-250/52	DAP	0,88
135	Kellogg , Houston for Sabic-Taifer	Al Jubail, Saudi-Arabia	1980	VP2-225/50	Urea	0,7
136	Bateman S.A., ELB	Asia	1981	VP1-1000/50	Carnallite	1 - 1,45
137 - 138	The Hashemite Kingdom of Jordan The Ports Corporation Aqaba	Aqaba, Jordan	1981	VP2-2000/42	Potash	1,06 - 1,15
139	Al Jubail, Pepper	Al Jubail, Saudi-Arabia	1981	VP2-700/45	Urea	0,7
140	Esso Chemical, Canada	Redwater, Alberta, Canada	1981	VP2-300/52	DAP	0,88
141	W.R. Grace, Bartow, Florida / USA	Bartow, Florida	1981	VP2-360/52	DAP	1
142	Manufacture de Cemento Portland La Cruz Azul, Mexico D.F.	Lagunas, Mexico	1981	VP1-100/15,5	Silica, Hermatite	1,3 - 2
143	Anglo-American Corp. South -Africa	Goedehoop, South Africa	1981	VP1-2500/38	Coal	0,85
144	Sappi Ltd. NGODWANA South Africa	NGODWANA South Africa	1981	VP1-300/33	Wood Chips	0,29
145	Sappi Ltd. NGODWANA South Africa	NGODWANA South Africa	1981	VP1-300/33	Coal	0,8
146	F.L. Smidth	Bouria, Algeria	1981	VP2-120/23	Clay	1,4
147	Polysius	Bonzem, Cameroon	1981	VP2-200/42	Clinker	1,3
148	Mittel-Ost		1981	VP1-175/21	Gypsum	1,4



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
149	Mittel-Ost		1981	VP1-175/21	Gypsum	1,4
150	Continho Caro, Hamburg	Tanasa, Indonesia	1982	VP2-300/33	Limestone	1,5
151	Zentralkokerei Saar	Dillingen, Germany	1983	VP1-800/57,5	Coal	0,7
152	Kobe Steel Ltd.	Bintulu, Malaysia	1984	VP2-400/48	Urea	0,7
153	Tractionel Elektrobél Eng., Bruxelles / Belgium		1984	VP1-1200/54	Coal	0,8
154	Tractionel Elektrobél Eng., Bruxelles / Belgium		1984	VP1-1200/54	Coal	0,8
155	Preußische Elektrizitäts-AG	Heyden, Germany	1985	VP1-1000/42	Coal	0,8
156	PPC-Dwaalboom, South Africa	Dwaalboom, South Africa	1985	VP1-300/33	Coal	0,8
157	Texasgulf Chemicals Morehead City	Morehead City USA	1985	VP2-1500/48	Phosphate	1,3
158	Florida Crushed Stone, Brooksville, Florida / USA		1985	HP-400/17	'feiner' Limestone Limestone	1,36 1,12
159	Champion International, Pensacola, Florida / USA		1985	VP1-200/46	Wood Chips	0,35
160	Continental Conveyor	Houston, Texas	1986	VP2-280/46	Limestone	1,28
161	Maschinoimport, Moscow	Juschnyj, Russia	1986	VP2-1200/42	Phosphate	1,24 - 1,57
162	Gemeinschaftskraftwerk Weser GmbH	Veltheim, Germany	1986	HP-180/14	REA-Gypsum	1,1
163	Chittagong Toyo Eng.	Bangladesh, India	1986	VP2-220/50	Urea	0,75
164	Cruz Azul	Hidalgo, Mexico	1987	VP2-200/33	Clay	1,5



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
165 - 166	Maschinoimport, Moscow	Juschnyj II, Russia	1987	VP2-1200/42	Phosphate	1,24 - 1,5
167	Port Waratah Coal Service, Carrington, Newcastle, Australia	Port Waratah		VP2-2750/35	Coal	0,8
168	Babcock, Krefeld	Preussag Electra Staudinger	1988	1 HP-150/17,5	FGD-Gypsum	0,96 - 1,12
169	Anglo American Corp., Johannesburg for de Beers	Finsch Mine, ZA	1988	VP2-1300/43	Kimberlite ore	1,6
170 - 171	Märker Zementwerke GmbH Harburg / Schwaben	Harburg, Germany	1988	HP-150/17,3	Additives	0,7 - 1,6
172	Texas Newmexico Power Company, Calvert, Texas / USA		1988	VP2-1452/40	Lignite	0,88
173	BASF Antwerpen	Antwerpen, Belgium	1989	VP2-420/45,2	Fertilizer	1,2
174	Knauf Engineering, Iphofen	Immingham / England	1990	VP1-90/22	Gypsum	0,9
175	National Petrochemical Company, Teheran	Iran	1990	VP2-135/28	DAP	0,89
176	Nisco Cogeneration Proj., Westlake, Louisiana / USA		1990	VP2-454/27	Petrolkoks	0,76
177- 178	Birtley Engineering Ltd. Chesterfield	Drax Power Station	1991	VP2-1000/39,5	FGD-Gypsum	0,9 - 1,1
179 - 180	Birtley Engineering Ltd. Chesterfield	Drax Power Station	1991	VP2-300/43,6	Limestone	1,2 - 1,8
181	Stadtwerke, Düsseldorf	KW-Lausward, Düsseldorf	1991	VP1-360/44,8	Coal	0,8
182	P.T. Pipil Sriwidjaja, PUSRI	Palembang, Indonesia	1991	VP2-600/50	Urea-Prills	0,75
183	PORTNET, South Africa	Richards Bay, South Africa	1991	VP2-1250/32	Phosphate, Fertilizer, Potash	0,95 - 1,9



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
184 - 185	PORTNET, South Africa	Richards Bay, South Africa	1991 1992	VP2-2500/41,5	Phosphate, Fertilizer, Potash	0,95 - 1,9
186	Gordonstone Coal Management Pty. Ltd., Brisbane, Qld., Australia	Emerald, Qld, Australia	1991	VP1-2750/51	Coal	0,85
187	Gordonstone Coal Management Pty. Ltd., Brisbane, Qld., Australia	Emerald, Qld, Australia	1991	VP1-2750/51	Coal	0,85
188	White Industries	Australia	1991	VP2-2500/50	Coal	0,9
189	Elsamprojekt, Denmark	Esbergbjerg	1992	HP-200/19,8	Gypsum	0,8
190	Anglo American, South Africa	Landau, South Africa	1992	VP2-1500/52,8	Coal	0,85
191	Birtley Engineering Ltd., Chesterfield	Ratcliffe, Power Station	1992	VP2-160/43,6	Limestone	1,4 - 1,6
192	Birtley Engineering Ltd., Chesterfield	Ratcliffe, Power Station	1992	VP2-1000/39,5	FGD-Gypsum	1
193	LCN	Ecuador	1992	VP2-350/33	Gypsum, Lignite	1 - 1,44
194	Vereinigte Kreidewerke	Söhlde, Germany	1993	HP-100/22,4	Chalk	1,4
195	Keystone Energy Services Co., Logan Township, N.J. / USA		1992	VP2-363/32	Coal	0,8
196	Gordonstone Coal, Australia	Emerald, Qld.	1992	VP2-2500/51	Coal	0,8
197	Gordonstone Coal, Australia	Emerald, Qld.	1992	VP2-2500/51	Coal	0,8
198	Kedah Cement Sdn. Bhd.	Werk Langkawi Kuala Lumpur / Malaysia	1993	VP1-125/33	Coal	0,8
199	Neckarwerke Elektrizitätsversorgungs AG, Esslingen	Kraftwerk Altbach, Germany	1993	VP1-500/51,5	Coal	0,85
200	SASOL Johannesburg, South Africa	Twistdraai (Secunda) South Africa	1995	VP2-1500/53	Coal	0,85



No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
201	Uhde for Abu Qir	Egypt	1996	VP2-300/48,5	Urea	0,72
202	Madras Cements Ltd.	Alaytriyur	1996	VP1-100/24	Additive	1 - 2,5
203	OCI	Wyoming, USA	1997	VP2-907/62	Trona ore	0,65
204	Bechtel / Davy Collahuasi	Chile	1997	VP2-1500/39,5	Copper Concentr.	2,7
205-206	La Cruz Azul Mexico	Mexico	1997	VP2-250/21,8	Limestone Bausite Hematite	1,4
207-208	Hitachi for Enersur	ILO, Peru	1998	VP1-225/37,3	Coal	0,8
209	SPIC Fertilizer and Chemicals FZE	Jebel Ali Dubai	1998	VP2-500/54	Urea (Prills)	0,74
210-211	Snampro Techint for Protertil S.A.	Bahia Blanca, Argentina	1998	VP2-1500/43	Urea (Granules)	0,75
212	Uhde for Suez	Egypt	1998	VP2-300/48.5	Urea	0,72
213	Coastal	Aruba	1999	VP2-2000/67	Petroleum Coke	0,8
214	Ingwe Middelburg Mine Services Hartebeesfontein	Middelburg, Mpumalanga, South Africa	1999	VP2-5000/38	Coal	0,85
215	CVG Bauxilum	Puerto Ordaz Venezuela	2001	VP2-800/54.6	Bauxite	1,2-1,44
216	Mitsubishi Heavy Ind. for PT Pupuk Kalimantan Timur	Bontang Indonesia	2001	VP2-1100/42.4+E	Urea	0.73
217	Kawasaki Heavy Ind. for CNOOC China	Hainan Island	2001	VP2-350/50	Urea	0.75
218	QAFCO, Qatar via Uhde GmbH, Germany	Qatar	2002	VP2-1000/50	Urea	0.75
219	CVRD, Pellet Plant	São Luiz-MA, Brazil	2002	VP-300/54	Lime, Dolomite, Antazit coal, Betonit, Silica	0,64
220	Petrolera Zuata C.A. Jose, Venezuela	Jose, Venezuela	2003	VP1-1500/49	Sulphur	1.0

No.	Purchaser	Location	Year	Type	Material handled	Bulk density t/m ³
221	Snampro Techint for Profertil S.A.	Omifco, Oman	2004	VP2-1500/43	Urea (Granules)	0,75
222	PT Pupuk Iskandar Muda	Lhokseumawe North Aceh, Indonesia	2004	VP2-600/50	Urea (Prills, Granules)	0.75
223	Truba Jurong for PT Pupuk Kalimantan Timur	Bontang, Indonesia	2005	VP2-1100/42,4	Urea	0.73
224	Qatar Liquefied Gas Co. Ltd. (II)	Ras Laffan, Qatar	2007	VP-HP-1500/45,2	Sulfur Prills	1,121



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