

HiWearLIFE™
HEAVY DUTY RUBBER WEAR BAR



Head & Marketing Office

LINTECH DUTA PRATAMA, PT.

Mining WEAR Technology, Engineering, and Services

GRAHA LINTECH 3rd Floor - Wira Jatim Industrial Estate Complex

JL. Raya Mastrip No. 70 Karangpilang – Surabaya 60221 Indonesia

Phone : +62-31-7666-891

Fax : +62-31-7664-604

Web : Lintech.co.id, email: admin@lintech.co.id

HiWearLIFE™

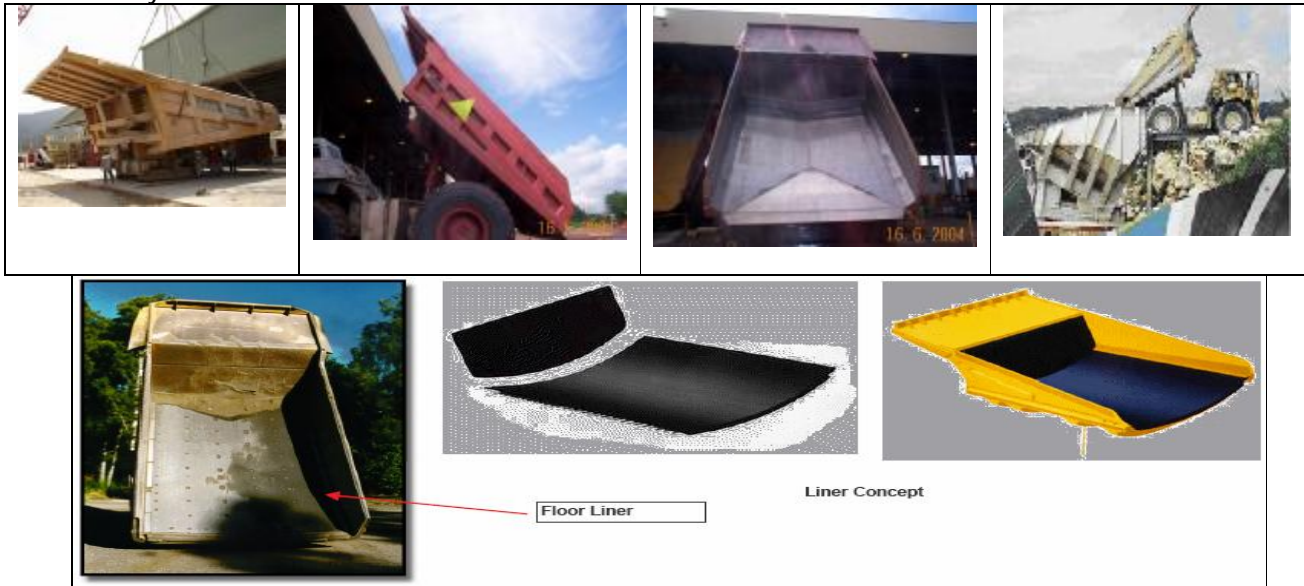
HEAVY DUTY RUBBER WEAR BAR

The Maximum Wear Protection

WEAR PROTECTION is rubber wear bar designed to handle aggressive abrasion and was originally developed for hard rock mining industry and in particular for combined very high impact and abrasive application. Hot pressed wear resistance rubber to base steel with stud bolt to protect dump body or simple Tee Bolted to body slotted Heavy Duty Aluminum Rail design.

Wide range of application in most abrasive area, a substitute to standard rubber lining limited thickness that increase equipment wear protection lifetime and minimize plant downtime for wear protection replacement.

WEAR PROTECTION proudly introduced to mining industry for long life equipment wear protection-minimum downtime requirements of slurry and tail box, launder, dump truck body, hopper, chute, etc, applicable to steel and concrete body.



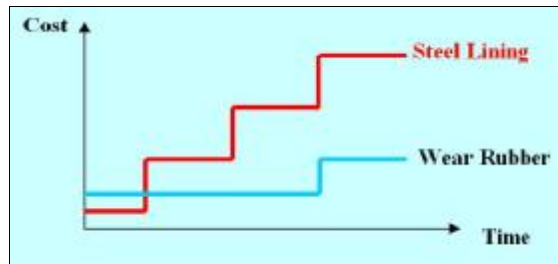
Control Cost with HiWearLIFE™

Mining activities unavoidably result in wear, and wear costs money. That is why it pays to tackle wear with wear resistant products that wear resistant products cuts cost in nearly every application. From discharge and storage chutes, to hoppers, skips, launders and Dump truck bodies.

Wear Protection concept of providing the right products for the right application has resulted in the most complete and Flexible range of products and wear resistant materials.



HiWearLIFE™ in Primary Feed hopper



Steel and Rubber Lining Cost Comparison

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Fewer and Shorter Stoppages

Equipment fitted with wear resistant polymers enjoys a longer life, which equates to reduced costs for maintenance and worn part replacements. Stoppages are few and production losses smaller, and with the simple and secure fastening systems, fitting work can be carried out faster.

Choosing a product has more than economical advantages. The polymer wears products helps create a more comfortable working environment by substantially reducing noise and vibrations generated in industrial environments. In most application, it is possible to reduce the auditable noise by 50% just by switching from steel to a polymer product.

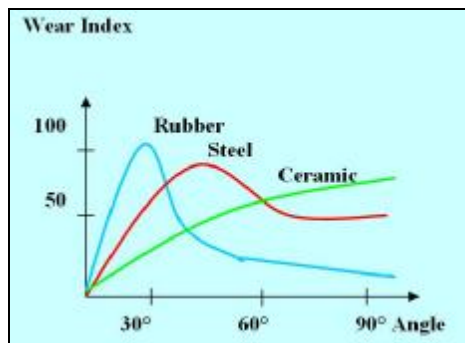
Control Wear with Wear Protection

Polymers have proven to be exceptional wear materials, more durable than even the hardest steels. The secret lies in our polymers unique characteristic- elasticity - which gives it a shock absorbing function. To achieve the most from a solution it is imperative to follow the golden rule: Always take into consideration of the operating conditions at your plant.



Along with particle size, drop height is the most important design criterion. In chutes and hoppers, drop height should not exceed 3-4 meters. Oversized thickness can be used to counter excessive drop heights. Practical and laboratory testing have revealed that special attention should be given to flow rates exceeding 7 m/s. By restricting high flow rates, the polymer has time to flex and absorb the energy leading to wear reduction.

Impact Angle



For optimal wear protection, material should strike the polymer surface at a minimal angle (0-5°) or as close to perpendicular as possible (90°). Polymer can best resist impact forces and wear when material strikes it at right angles.

For Heavy Duty Application

Transporting rocks and other heavy material can load down the lifetime of trucks and feed hoppers. At our wear, elements have been providing heavy-duty wear protection in the mineral processing industry for more than three decades. When introduced, wear elements set a new industry standard. These wear elements not only protect against wear but also serve as impact-dampers and prevent damage to trucks and hoppers.

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Maximizing the Benefits of Wear Rubber

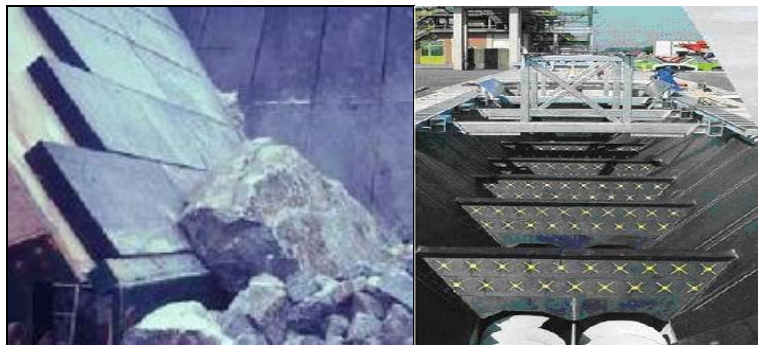
Truck boxes and feed hoppers are exposed to heavy stress daily – the constant crushing, cutting, abrasion and impact of rocks and other particles. The wear strength and elasticity of rubber generate valuable benefits during the entire working cycle.

Rubber Absorbs the Load

Elasticity is one of the most outstanding properties of rubber. As the load is absorbed, the rubber gives way and then regains its original form when the load disappears. A non-elastic surface becomes deformed or cracked.

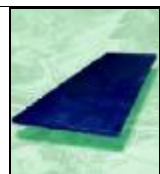
Steel Back Extends Life

Steel backed rubber elements, such as PP and VM elements, have a metal backing that holds the elements together if the rubber is cut by extremely jagged and sharp edged particles. The metal backing can also prevent fine material from working its way into the joints and cavities causing the lining to Loosen.



Wear Plate and Bars

Industrial activities unavoidably result in wear and wear costs money. Often lots of money. That is why it pays to tackle wear with wear resistant rubber cuts costs in nearly every application. From discharge and storage chutes, to hoppers, skips, launders and dump truck body.

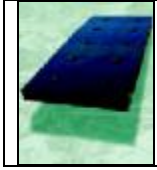


PP Wear Plates

PP, plain steel backed wear rubber plate. PP Wear Plates are excellent wear lining for; Truck boxes, feeders, chutes, hoppers, bins, and other applications subjected to wear and noise. Can easily to be installed with a wide range of secure and reliable fastening methods.

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PR Wear Plates

PR, plain wear rubber plate with in vulcanized steel washers. PR Wear Plates are excellent wear lining to; Feeders, chutes, hoppers, Transfer points, bins, and other applications subjected to wear and noise. Simple installation by used a wide range of secure and reliable fastening methods.



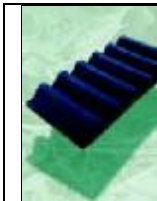
PT Wear Plates

PT, plain wear rubber plate with in vulcanized aluminums tracks. PT Wear Plates are excellent wear lining to; Feeders, chutes, hoppers, bins, and other applications subjected to wear and noise. Secure and quick T-bolt fastening System.



Wear Bars

Wear bar with in vulcanized aluminums track. Wear Bars are excellent wear lining to; Washing drums, rock, boxes, feed cones-crushers and other applications subjected to wear and noise. Wear Bars can be installed in applications by using the secure and quick T-bolt fastening system.



SP Wear Plates

SP, serrated steel backed wear rubber plate. Excellent wear lining for transfer points, chutes, hoppers, bins, and other applications subjected to wear and noise. Also possible to use for creating material pockets. SP Wear Plates can easily be installed in applications by using a wide range of secure and reliable fastening methods.

In for dump body, the wear plate of steel floor are replaced with a rubber which Tee bolt connection to body supplied with neoprene seal and steel cup washer. The ability of the rubber mat to flex means that material simply cannot stick to the floor. Hang up of material is virtually eliminated. The thickness and abrasive rubber mat provides a wear life two to three times that of a lined steel body, while delivering up to a 20% weight saving/payload increase.

Furthermore, the ability to absorb loading shocks means greatly improved operator safety and comfort and reduced and damage to the truck's chassis and instrumentation.

Rubber Wear Bar Properties – DUMP BODIES APPLICATION



For dry application requires harder and tougher rubber to fight the impact chunking and tear. HiWearLIFE™ has invented and applied hard rubber – HARR with special compound S80 for this duty.

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It has DURO 80 hardness and its promised capability to stand for the impact and tear given by dump and tipping/loading activity. In dry application, rubber instead of conventional wear plate has been used in several big mines in the world.

Rubber Assigned Specification:

Description	Wet – Slurry Application	Dry – Ore Application
Rubber Lining Type	LDP SAR 10A	LDP HAR S80
Grade of Lining	SMR5	SMR5
Color	Black	Black
Specific Gravity	1.041	1.162
Hardness Shore	A40 ± 5	A80 ± 5
Abrasion Resistance (DIN)	110 mm3	96.7 mm3
Tensile	25.6 N/mm2	22.9 N/mm2
Elongation	740 %	510 %
Rubber	91 %	91 %
Mineral Filler	Nil	Nil
Reinforcing	5 %	5 %
Vulcanized / Accelerator	1.20 %	1.20 %
Other	2.80 %	2.80 %
Curing Method	Hot Curing / Pressed	Hot Curing / Pressed

Longer Wear Life

HiWearLIFE™ originally developed for hard rock mining, the rubber wear mat (Floor) has proven to last over 20,000 hrs of operation (wear can be further extended under more moderate conditions)



Maintenance Free

Rubber wear protection is virtually free of maintenance. As well, replacing the rubber wear mat takes a fraction of the time when compared to relining plates on traditional Steel Dump Bodies. In many cases, steel liner body experience fracture – regular repair is required.

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Elimination of Carry Back

Wear protection is the only solution for transporting sticky material. Dirt or clay will not stick (or in cold climates freeze) to a surface that continually stretches and flexes during loading and unloading, thus preventing any material from building up. Hang up or carry back is practically eliminated.



STEEL BODY LINER



RUBBER WEAR PROTECTION

HiWarLIFE™ Reduction of Loading Shock

The rubber wear mat and electrometric suspension ropes provide damping and energy dissipating properties that almost totally absorb all loading impacts. This prevents impact shocks from transferring through the truck's chassis and instrumentation, and more importantly, the operator.



Reduction of Loading Noise

Loading noise is greatly reduced due to the shock absorbing properties of the Rubber. Operator health and safety issues involving noise exposure at quarry and mine sites continue to receive increased attention. In some cases where mines are located near towns, the ability to reduce ambient noise below a specified level has been the main reason for investing in Rubber wear protection.

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Rubber Wear Bar VS Steel Wear Plate

Description	RUBBER WEAR BAR	STEEL WEAR PLATE
Specification	Rubber Lining Type: LDP HAR S80	Specific Gravity: 7.85
	Color: Black	Hardness BHN:360/400/500
	Specific Gravity: 1.162	Abrasion Resistance: NA
	Hardness Shore: A70 ± 5	Tensile Strength: 1190 N/mm2
	Abrasion Resistance: 96.7 mm3	Elongation 50 mm GL:13%
	Tensile: 22.9 N/mm2	Fe (besi): 96.43 max
	Elongation: 510 %	C (Carbon): 0.2 max
	Rubber: 91 %	P (Phospor): 0.025 max
	Mineral Filter: Nil	Mn (Mangan): 1.5 max
	Reinforcing: 5 %	Other (Cr,Ni,Ti,etc): 2.232 max
	Vulcanized / Accelerator: 1.20 %	
	Other: 2.80 %	
Curing Method: Hot Curing / Pressed		
Weight 100mm Thick/m2	102 kg	798 kg
Installation Method	-Flexible, cut with Shaw circle	Very Flexible, Cut and weld or bolted
	-Bolted to body or Welded	
Wear Life Expected	2-3 times of Steel Wear Plate	5,000 hrs operation
Benefit	No maintenance required between worn replacement cycle Short time replacement Manufactured to size – no cut waste	Storage at wide plate, easy cut and weld, any time.
Weakness	No significant have been found	Resulting Frame fracture almost every 4,000 Hours Minor weld repair on cracked plates have been experienced Longtime replacement Cut waste (10%)

HiWearLIFE™ Size

Standard size Reference	DIMENSION			SLOTTED ALUMINIUM	
	Width	Length	Thick	QTY	Distance
RB401495-387	15-1/4"	58-7/8"	4"	2	12'-0"
RB401495-502	19-3/4"	58-7/8"	4"	2	12'-0"
RB401495-616	24-1/4"	58-7/8"	4"	2	12'-0"
RB401495-298	11-3/4"	58-7/8"	4"	1	0
RB401495-450	17-3/4"	58-7/8"	4"	2	12'-0"
RB401495-603	23-3/4"	58-7/8"	4"	2	12'-0"
RB401495-100	4"	58-7/8"	4"	1	0
*Other dimension and surface/ body application, Custom arrangements are available.					

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HEAVY DUTY RUBBER WEAR BAR

References

Following are mining which utilize rubber bar lining to protect their Dump Bodies.

Customer	Mine/Client	Country	Model	Fleet Capacity (Tons)
ANGLO AMERICAN	Los Bronces	CHILE	KOM 930E	360 T
CODELCO	Codelco Chuquicamata	CHILE	KOM 930E	360 T
NORTH AMERICAN PALLADIUM	Lac Des Iles Mine, Thunder Bay	CANADA	KOM730E	190 T
INCO	Voisey's Bay	CANADA	CAT 777D	75 T
BMA	Norwich Park,QLD	AUSTRALIA	CAT 785C	150 T
VOLVO BILIA MASKIN	Oslo	NORWAY	PERLINI DP705	65 T
ROCHE BROS	Coppabella,QLD	AUSTRALIA	CAT 789	190 T
ALCAN	Alcan,Gove	AUSTRALIA	KOM HD985	100 T
HENRY WALKER ELTIN	H.W.E	JAMAICA	CAT 777D	100 T
RIO TINTO - DIAVIK	Diavik,NT	CANADA	KOM 830E	240 T
ANGLO AMERICAN	El Soldado	CHILE	CAT 785C	150 T
ANGLO AMERICAN/ MANTOS BLANCOS	Emablos	CHILE	CAT 789	240 T
ANGLO AMERICAN/ MANTOS BLANCOS	Emablos	CHILE	KOM 830E	240 T
ANGLO AMERICAN-FALCONBRIDGE	Collahuasi	CHILE	KOM 830E	240 T
CVRD	CVRD	BRAZIL	CAT793C	240 T
BHP DIAMONDS INC	Ekati,NT	CANADA	CAT793C	240 T
FOSFERTIL	Fosfertil	BRAZIL	KOM 630E	220 T
KAUFMAN-CHILE	Kaufmann	CHILE	M. Benz 3335	30 T
RIO TINTO - DIAVIK	Diavik,NT	CANADA	KOM 830E	240 T
NORTH AMERICAN PALLADIUM	Lac Des Iles Mine, Thunder Bay	CANADA	KOM730E	190 T
ANGLO AMERICAN-FALCONBRIDGE	Collahuasi	CHILE	KOM 830E	240 T
BHP-GEMCO	Groote Eylandt,NT	AUSTRALIA	KOM HD985	100 T
HENRY WALKER ELTIN	H.W.E	JAMAICA	CAT 777D	100 T
ANGLO AMERICAN-FALCONBRIDGE	Collahuasi	CHILE	CAT793C	240 T
ROCHE BROS	Coppabella,QLD	AUSTRALIA	CAT793C	240 T
ROCHE BROS	Commodore Coal Mine,QLD	AUSTRALIA	CAT 777D	90 T
BHP DIAMONDS INC	Ekati,NT	CANADA	CAT 789	190 T
BHP DIAMONDS INC	Ekati,NT	CANADA	CAT793C	240 T
BHP DIAMONDS INC	Ekati,NT	CANADA	CAT 777D	100 T
RIO TINTO - DIAVIK	Diavik,NT	CANADA	KOM 830E	240 T
LIHIR MINING COMPANY	Lihir,NT	PAPUA NEW GUINEA	CAT 785B	140 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT 777D	100 T
BILIA MASKIN (VOLVO)	Oslo	NORWAY	EUCLID R65	65 T
ALCOA	Alcoa, WA	AUSTRALIA	KOM HD985	100 T
NABALCO PTY LTD	Nabalco, Gove, NT	AUSTRALIA	CAT 777D	100 T
ANGLO AMERICAN	Loma De Niquel	VENEZUELA	KOM HD465	60 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT 777D	100 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT793C	240 T
ALBIAN OIL SANDS	Muskeg	CANADA	CAT793C	240 T

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HENRY WALKER ELTIN	KJBC	JAMAICA	CAT 777D	100 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT777D	100 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT 793C	240 T
ALCOA	Alcoa, WA	AUSTRALIA	KOM HD985	100 T
VEIDEKKE A/S	NORWAY	NORWAY	KOM HD605	60 T
WORSLEY ALUMINA	Worsley, WA	AUSTRALIA	KOM HD985	100 T
NABALCO PTY LTD	Nabalco, Gove, NT	AUSTRALIA	CAT 777D	100 T
BHP DIAMONDS INC	Ekati, NT	CANADA	CAT 793C	240 T
ANGLO AMERICAN	Loma de Niquel, C.A.	VENEZUELA	KOM HD465	60 T
LIHIR MINING COMPANY	Lihir, NT	PAPUA NEW GUINEA	CAT 773D	50 T
ALCOA	Alcoa -Huntly, WA	AUSTRALIA	KOM HD985	100 T
LIHIR MINING COMPANY	Lihir, NT	PAPUA NEW GUINEA	CAT 785B	140 T
BHP - GEMCO	Groote Eylandt, NT	AUSTRALIA	CAT 785	140 T
ROBE RIVER MINING	Robe River, WA	AUSTRALIA	KOM 630E	170 T
RIO TINTO - ARGYLE	Kununurra, WA	AUSTRALIA	CAT 789B	180 T
ELTIN LIMITED	Ebenezer, QLD	AUSTRALIA	KOM 630E	190 T
LIHIR MINING COMPANY	Lihir, NT	AUSTRALIA	CAT 785B	140 T
ALCOA	Willowdale, WA	AUSTRALIA	KOM HD985	105 T
ROBE RIVER MINING	Robe River, WA	AUSTRALIA	KOM 630E	170 T
ALCOA	Willowdale, WA	AUSTRALIA	KOM HD985	105 T
LIHIR MINING COMPANY	Lihir, NT	PAPUA NEW GUINEA	CAT 785B	140 T
N.S KOMATSU	Ernest Henry, QLD	AUSTRALIA	KOM 830E	240 T
AWP CONTRACTOR	Sunrise Dam, WA	PAPUA NEW GUINEA	CAT 785B	140 T
PT KELIAN	INDONESIA	INDONESIA	CAT 785B	140 T
LIHIR MINING COMPANY	Lihir, NT	PAPUA NEW GUINEA	CAT 773D	50 T
AWP CONTRACTOR	Sunrise Dam, WA	AUSTRALIA	CAT 785B	140 T
RIO TINTO - ARGYLE	Kununurra, WA	AUSTRALIA	CAT 789	190 T
ELTIN LIMITED	Boddington Gold, WA	AUSTRALIA	CAT 777C	85 T
ELTIN LIMITED	Hedges Gold, WA	AUSTRALIA	CAT 785B	140 T
HENRY WALKER ELTIN	Yandicoogina, WA	AUSTRALIA	CAT 785B	140 T
ROCHE BROS	Kalgoorlie, WA	AUSTRALIA	CAT 789	190 T
RIO TINTO - ARGYLE	Kununurra, WA	AUSTRALIA	CAT 789	190 T
ROCHE BROS	Kalgoorlie, WA	AUSTRALIA	CAT 789	190 T
SOUTH EAST MISSOURI STONE CO.	Missouri	USA	EUCLID R50	50 T
ARNE PETTERSEN	Tana	NORWAY	EUCLID R65	50 T
ELTIN LIMITED	Hedges Gold, WA	AUSTRALIA	CAT 785B	140 T
ALCOA	Willowdale, WA	AUSTRALIA	KOM HD785	85 T
ELTIN LIMITED	Boddington Gold, WA	AUSTRALIA	CAT 777C	85 T
HANSON AGGREGATES	Whatley, Frome	U.K	CAT 777B	85 T
LAFARGE AGGREGATES	Mountsorrel	U.K	CAT 777C	85 T
SOC. SOLVEY	Tavaux	FRANCE	KOCKUM 540-1	40 T
ROCHE BROS	Kalgoorlie, WA	AUSTRALIA	CAT 789	190 T
ALCOA	Willowdale, WA	AUSTRALIA	KOM HD785	85 T
ROCHE BROS	Kalgoorlie, WA	AUSTRALIA	CAT 785B	140 T
BHP - GEMCO	Groote Eylandt, NT	AUSTRALIA	CAT 785B	140 T

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THIESS CONTRACTORS	Ex Argyle, WA	AUSTRALIA	CAT 785B	140 T
ARC	Whatley, Frome	U.K	CAT 777B	85 T
REDLAND AGGREGATES	Mountsorrel	U.K	CAT 777C	85 T
ELTIN LIMITED	W.A	AUSTRALIA	CAT 777C	85 T
STONE STREET QUARRY	Fort Wayne, IN	USA	CAT 769 C	35 T
E.C.C QUARRIES	Leicestershire	U.K	CAT 777B	85 T
REDLAND AGGREGATES	Mountsorrel	U.K	CAT 777C	85 T
RIO TINTO - ARGYLE	ARGYLE Diamonds	AUSTRALIA	CAT 777B	85 T
BARDON HILL GRANITE QUARRY	Bardon Hill	U.K	CAT 777B	85 T
SOUTH EAST MISSOURI STONE CO.	Missouri	USA	EUCLID R50	50 T
FOSTER YEOMAN	Scotland	SCOTLAND	CAT 773B	35 T
FRANCEY TRANSPORT SA	Switzerland	SWITZERLAND	M. Benz 3335	
BOLIDEN AB	Aitik	SWEDEN	VOLVO BM 425 B	25 T
E.C.C CROFT	Croft	U.K	CAT 773B	50 T
ARC	Whatley, Frome	U.K	CAT 777B	85 T
RANA GRUBER	Norway	NORWAY	LECTRA HAUL M36	170 T
BOLIDEN AB	Aitik	SWEDEN	LECTRA HAUL M36	170 T
STONE STREET QUARRY	Fort Wayne, IN	USA	CAT 769 C	35 T
ARVID SNOAAS	Norway	NORWAY	CAT 773B	50 T
AKE TURESSON	Sweden	SWEDEN	SCANIA R142E-34	15 T
K-H HULTIN	Sweden	SWEDEN	VOLVO N12	13 T
K-H HULTIN	Sweden	SWEDEN	VOLVO N12	13 T
QCM	Canada	CANADA	LECTRA HAUL M36	170 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUMS 540	40 T
ARC	Whatley, Frome	U.K	CAT 777B	85 T
STONE STREET QUARRY	Fort Wayne, IN	USA	CAT 769 C	35 T
ARNE PETTERSEN	Norway	NORWAY	CAT 773B	50 T
GOTE JOHANSSON	Sweden	SWEDEN	VOLVO N12	11T
TITANIA	Norway	NORWAY	KOM HD1200	120 T
RANA GRUBER	Norway	NORWAY	LECTRA HAUL M36	170 T
BOLIDEN AB	Aitik	SWEDEN	LECTRA HAUL M36	170 T
BOLIDEN AB	Aitik	SWEDEN	KOCKUMS 425B	25 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUMS 540	40 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUMS 540	40 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUMS 540	40 T
MERIDAN AGGREGATES CO.	Usa	USA	TEREX 33-11	85 T
COMINCO	Canada	CANADA	LECTRA HAUL M36	170 T
BOLIDEN AB	Aitik	SWEDEN	LECTRA HAUL M36	170 T
REDLAND AGGREGATES	Mountsorrel	U.K	CAT 777C	85 T
RANA GRUBER	Norway	NORWAY	LECTRA HAUL M36	170 T
ROCKVILLE STONE	Usa	USA	CAT 769 C	35 T
VULCAN MATERIALS	Usa	USA	EUCLID R50	50 t
GEORGIA MARBLE	Usa	USA	EUCLID R35	35 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUM 565	65 T
STATENS VATTENFALL	Sweden	SWEDEN	CAT 769 B	35 T

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ECC-CROFT	U.K	U.K	AVELING BARFORD	35 T
AB SYDSTEN	Sweden	SWEDEN	KOCKUM 565	35 T
TSUMEB CORP	Namibia	NAMIBIA	VOLVO BM 861 S	18 T
ARGA WATSU	Indonesia	INDONESIA	VOLVO BM 861 S	18 T
BOLIDEN AB	Aitik	SWEDEN	LECTRA HAUL M36	170 T
ROLF HANSEN	Norway	NORWAY	VOLVO F12	13 T
SINGEL & GRUS	Norway	NORWAY	CAT 769 C	35 T
VOLVO KOCKUMS	Sweden	SWEDEN	KOCKUM 540	40 T
BUFFALO SLAG	Usa	USA	EUCLID R35	35 T
LITHIUM CORP	Usa	USA	EUCLID R35	35 T
BERGSTADENS	Akeri	SWEDEN	ENGSON 66	20 T