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CENTRAL INTELLIGENCE AGENCY

REPORT

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Poland

DATE OF INFORMATION 1948 - 1950

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MINING MACHINERY AND EQUIPMENT REQUIREMENTS OF THE POLISH COAL-MINING INDUSTRY FOR 1948

This report consists of 12 tables [redacted] itemizing mining machinery and equipment needed from abroad by 11 Polish coal-industry associations and the Association of Mining and Drilling Enterprises. [redacted] Information on the type and quantity of machines needed, the suggested source, technical data, and delivery date is included in the tables.

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Table 1. Requirements of the Gliwice Association of the Coal Industry for Mining Machinery and Equipment from Abroad

Type of Machine	Quantity for Knurów and Sosnica Coal Mines	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Quantity for Mines Other Than Knurów and Sosnica
Rock loaders	2	Type M-21, track gauge 620 mm	-	1948	
Rock-drilling machines	2	Type TPM-350, twin-boom, track gauge 630 mm	-	1948	
Duckbill loader	3	Automatic; medium	-	1948	
Face coal cutters	17	CLE-5, cutter bar 2 m long	14	1948	14
Gallery coal cutters	3	Arc Shear or Arc Wall	4	1948	4
Hand coal drills, complete	50	Type 1468 with augers; electric	45 + 153	1948	45 electric, 153 compressed-air motors
Winches	25	Electric-powered, 15 kw, drum 400-500 mm	47 + 25	1948	47 electric, 25 compressed air motors
Shearer conveyer drives	10	15 kw	5 179	1948	39 electric motors, 140 compressed-air motors
Chain conveyers	14	Capacity 1 ton/min, length 30 m extended Type 61-BC	8	1948	8 Beien (Type 61-W)
Chain conveyers	3	Capacity 2 tons/min, length 150 m, power about 25 kw		1948	

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Chain conveyers	2		Capacity 2 tons/min, length 120 m extended, power 32 kw	1948		50X1-HUM	
Chain conveyers, heavy	3		Capacity 2.5 tons/min, length 250 m, maximum elevation 20°	5	1948	5	
Belt conveyers	5		Width 650 mm, length 300 m, capacity 5 tons/min		1948		
Mobile mine compressors	4		Gasproof, 10-12 cu m/min, pressure 6-7 at, track gauge 620 mm	2	1948		
Belt conveyers	12		Width 800 mm, length 200 m, capacity 5 tons/min	76	1948	11 of 20 kw; 38 of 32 kw; 26 of 50 kw	
Bar coal cutters				16		16	
Pneumatic pick hammers				AT-18	135	135	
Two-drum winches					2	2 electric-powered	
Duct ventilators					103	103	
Coal planer hoists					122	67 large 55 small	

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Table 2. Requirements of the Zabrze Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity*	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks* (quantity, destination, etc.) (Coal Mines: J--Jadwiga, M--Miechovice, L--Ludwik)
Rock loaders	2	Type M-21, electric, 500 v, track gauge 620 mm		1948	J - 2
Coal loaders	5	Type 14-BU 7A		1948	J - 5
Duckbill coal loaders	23	Heavy		1948	L - 5; M - 18
Arc Shear coal cutters	5	For horizontal cut, 2.20 m high, caterpillar chassis, electric		1948	J - 5
Arc Wall coal cutters	27	Electric	47	1948	L - 10; M - 19; other coal mines - 20 electric, 27 compressed-air
Shortwall coal cutters	18	Medium Type 512	21	1948	M - 18; other coal mines - 21
Longwall coal cutters	9	CLE-5, cutter bar length 2.20 m	28	1948	L - 3; M - 9; other coal mines - 26 CLE-5, 2 CIA-5
Electric drills	82		270	1948	J - 10; M - 72; other coal mines - 270

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Hand-held pneumatic drills			210	1948	All coal mines
Pneumatic pick hammers	47	AT-18	160	1948	J - 20; M - 27; other coal mines - 160
Packing hammers	165	11 kg	190	1948	J - 20; M - 145; other coal mines - 190
Jumbo drilling equipment	2	Twin-boom, track gauge 620 mm	5	1948	Other coal mines - 3
Shuttle cars	8	6-ton, battery type		1948	J - 8
Battery charging station	1	For the above shuttle cars		1948	J - 1
Chain conveyers	27	Type 61-W; length: 20 of 100 m, 3 of 150 m, 2 of 120 m with elevation 10° 2 gravity-type of 120 m; capacity 1.5 and 2.5 tons/min	25 (10)	1948	L - 20; J - 3; M - 4; other coal mines - 15 heavy, 10 Beien (Type 61-W)
Belt conveyers, 650 mm wide	26	Length: 6 of 250 m, 20 of 140 m	21	1948	J - 6; L - 4; other coal mines - 6 of 30 kw, 15 of 20 kw
Belt conveyers, 800 mm wide	23	Length: 18 of 150 m, 5 of 120 m	161	1948	M - 18; L - 5
Shaker conveyer drives, compressed-air			138	1948	All coal mines

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Shaker conveyer drives, electric			153	1948	All coal mines	
Elevating heads for conveyers	5			1948	M - 5	
Single-drum electric winches	24	15 kw; cable 300 m long	12	1948	M - 24; other coal mines - 12	
Two-drum electric winches	15	25 kw; cable 900 m long		1948	M - 15	
Duct ventilators			165	1948	All coal mines	
Coal planer hoists		58 small; 35 large	93	1948	All coal mines	
Mobile compressors	5	12 cu m/min; Type WN-102		1948	J - 2; L - 3	

\*NOTE: In Tables 2-12 the "Quantity" column presumably gives the total number of machines needed by the coal mines of the association which are listed, with their abbreviations, under "Remarks." The "Remarks" column gives a breakdown of the quantity, by mines. Figures listed under "Remarks" as needed by "other coal mines" are generally not included in the "quantity" column, but under "Quantity Shown on Investment Plan."

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Table 3. Requirements of the Jaworzno-Mikolow Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks (Coal Mines: A--Artur, Z--Ziemowit, W--Wesola, K--Kosciuszko)
Rock loaders	7	Type M-21, compressed-air drive	None	1949	A - 2, track gauge 580 mm; W - 5, track gauge 600 mm
Jumbo drilling equipment	2	For 2 drills Type TPM-350, track gauge 580 mm	None	1949	A - 2
Universal coal cutters	4	Type 10-RU	None	1949	A - 4
Universal coal cutters	16	Arc Shear Type, with maximum length bar, caterpillar mounted	None	1949-50	Z - 6
Shortwall coal cutters	55	Sullivan Type 7-B, cutter bar length 2.20 m; Goodman heavy type, cutter bar 2.20 m	None	1949 1950	A - 10; K - 45
Face coal cutters	6	35 Sullivan Type CLE-5, 22 Type CIA-5	51	1948	Other coal mines - 51
Coal loader	36	28 Type 8-BU; 8 Type 12-BU		1949 1950	A - 8, Type 12-BU; 12 Type 8-BU K - 16, Type 8-BU

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Post-mounted drills, with automatic feed	34		Jeffrey A-6 with full accessories; Victor style 1468	1950	K - 34	50X1-HUM	
Electric hand-held drills	60		Victor style 1468, with accessories, 165 electric, 351 compressed-air	456	1948	Various coal mines - 456; A - 60	
Chain conveyers	36		Capacity 1.5 tons/min length 60 m, for discharging at pillars, Jeffrey Type 61-W, trough 5 3/4 in deep	None	1950	K - 36	
Chain conveyers	17		Capacity 1.5 tons/min length 100 m, for discharging at pillars and galleries, Jeffrey Type 61-W, trough 5 3/4 in deep	None	1949	A - 17	
Chain conveyers	40		Capacity 2.5 tons/min gathering type, length 60 m, Jeffrey Type 61-W, trough 8 1/2 in deep	None	1949 1950	A - 28; K - 12	
Rubber belt conveyers, complete	22		Length 100 m; width of conveyer 650 mm; capacity 3-4 tons/min	22	1949 1949	A - 18; Z - 4	
Rubber belt conveyers complete	27		Length 250 m; width 650 mm; capacity 3-4 tons/min	None	1950 1949	K - 12; A - 5; W - 10	

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Rubber belt conveyers, complete	4		Length 300 m; width 650 mm; capacity 5 tons/min	None	1950	K - 4
Rubber belt conveyers, complete	4		Length 400 m; width 650 mm; capacity 5 tons/min	None	1950	K - 4
Rubber belt conveyers, complete	6		Length 300 m; width 800 mm; capacity 7 tons/min	None	1949	A - 6
Rubber belt conveyers, complete	2		Length 400 m; width 800 mm; capacity 7 tons/min	None	1950	K - 2
Winches, electric and compressed-air motor	1		Single-drum, 75-kw compressed-air motors: 4 of 10 hp; 30 of 15 hp, 5 of 25 hp	39	1949	Z - 1; other coal mines 39
Winches, electric	24		Single-drum: 14 of 3.7 kw, 5 of 7.5 kw, 5 of 15 kw. Two-drum, compressed-air motor: 10 of 25-100 hp, 4 of 10-15 hp	14	1949	A - 24; other coal mines - 14
Pneumatic rock pick hammers			45 Type AT-18; 180 Type AZ-11	225	1948	For old coal mines
Electric pumps	40		Domestic	8 - head 100 m, displacement 2 cu m; 32 - head 60 m, displacement 0.5 cu m	40	1949

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Packing hammers	Domestic	483	1948	For old coal mines	
Bar coal cutters	Vitkovice, Czechoslovakia	Types 100, 105	124	1948	For old coal mines

Table 4. Requirements of the Hybnik Association of the Coal Industry for Mining Machinery and Equipment From Abroad (for all its coal mines)

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks
Mechanical rock loader	10	Type M-21		1948	4 of 600 mm track gauge received; 6 more to be ordered. Data given in questionnaire.
Rock drilling equipment complete with drills	10	Hydrodrill Jib Type TPM-350		1948	Data given in questionnaire.
Pneumatic pick hammers post-mounted	56	Height of post 2.5-3 m, Hammer-Type TPM-350		1948	
Pneumatic pick hammers complete	4	Type TPM-350		1948	Reserve
Face coal cutters	28	CLE-5, 500 v, 50 cycles, 2-m bar	46	1947-48	
Shortwall coal cutters	16	Sullivan 5B-1, 500 v, 50 cycles	26	1948	

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Elevating heads for conveyers, light, for hand loading on galleries	14			1948		
Chain conveyer, complete	11		Capacity 2.5 tons/min; length: 3 of 70 m, 2 of 120 m, 4 of 150 m, 2 of 100 m		1948	
Belt conveyers, complete	11		Width 650 mm; capacity 2.5 tons/min; length 3 of 200 m, 8 of 150 m	11	1948	50X1-HUM
Belt conveyers, complete	19		Width 800 mm; capacity 3 tons/min; length 4 of 100 m, 11 of 200 m, 4 of 250 m	19	1948	
Cutter-loaders	1				1948	
Mobile mine compressors,	10		Electric powered, 500 v, 50 cycles; capacity 10-12 cu m/min; pressure 7 at minimum		1948	Track gauge the same as on Elmco coal loaders

All motors electric, gasproof, with necessary cables and electrical wiring, and spare parts for all machines.

Pneumatic hand-held drills	McJ	WP-6	79	1948
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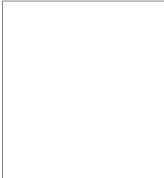
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Pneumatic pick hammers		131 Type AZ-11; 6 Type AZ-16	137	1948
Packing hammers		Weight 8-11 kg	402	1948
Gallery coal cutters		Compressed-air drive caterpillar-mounted small Arc Wall	4	1948
Drives for belt conveyers		Width of belt 800 mm	23	1948
Shaker conveyer, drives		10 MED-I, 19 MED-II, 193 MED-III; 40 Braun, 15 Flottmann-350	277	1948
Chain conveyers		Beien, 60 m long, Type 61-W, 15 tons/min	3	1948
Coal planer hoists			177	1948

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Table 5. Requirements of the Katowice Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks (Coal Mines: K1--Kleofas, E--Eminacja, M--Myslowice, W--Wujek, K--Katowice, Wl--Wieczorek)
Rock loader	6	Type M-21: 2 of 520 mm track gauge 3 of 615 mm track gauge one of 600 mm track gauge			E - 2; M - 1; W - 1; Wl - 2 (2 of above order already received - 600 and 615 mm track gauge)
Track mounted coal cutters	4	Capacity 2 tons/min, track mounted; 2 of 520 mm track gauge, 2 of 600 mm track gauge		1948	E - 2; M - 2
Coal loaders on caterpillar chassis	4	2 Type 8-BU, compressed-air motor; 2 Type 7-BU, electric 500 v		1948	W - 2; K - 2
Trackless Universal cutter	1	Type 10-BU		1948	K
Track mounted Universal coal cutter	4	Possible alternative, Jeffrey Mfg Co; 2 of 520 mm track gauge, 2 of 600 mm track gauge		1948	E - 2; M - 2

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Arc Shear coal cutter, compressed-air motor	2		Caterpillar chassis, maximum height of cutter bar	1948	W - 2		
Face coal cutters, electric			GLE-5	4	1948		
Face coal cutters, compressed-air motor			CLA-5	2	1948		
Gallery coal cutters compressed-air motor			Arc Wall, caterpillar mounted	18	1948		
Bar coal cutters, compressed-air motor			20 Type 90; 40 Type 105	60	1948		
Pneumatic pick hammers			50 AZ-11; 80 AT-18	130	1948		
Packing hammers			Type KS-11	100	1948		
Electric hand-held drills			Without gate end box	45	1948		
Pneumatic hand-held drills				320	1948		
Drills, chassis-mounted	1				1948		K
Jumbo drilling assembly	5				1948		E - 2; W - 1; W1 - 2
				Twin-boom, 6 at, Type TPM-350, 2 of 520 mm track gauge, 3 of 615 mm track gauge			

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Chain conveyers	10		8 Type 61W, capacity 2.5 tons/min length 100 m; 2 Type 61W, capacity 2.5 tons/min length 60 m	2	1948	K - 8	50X1-HUM
Chain conveyers	18		Type 61HG, capacity 2.5 tons/min, length 30 m	10	1948	K - 8	
Rubber belt conveyers, complete	13		13 - width 800 mm, length 250 m, capacity 7 tons/min		1948	K - 6; W - 7	
Conveyers, heavy-duty		Domestic	Length: 8 of 75 m, 11 of 100 m; 30-45 hp, complete	19	1948		
Drives for belt conveyor 900 mm		Domestic	23 - 20 kw; 45 - 32 kw 38 - 50 kw	106	1948		
Shaker conveyor drives MED-I		Domestic		40	1948		
Shaker conveyor, drives MED-II		Domestic		40	1948		
Shaker conveyor drives MED-III		Domestic		40	1948		
Shaker conveyor drives ED-23		Domestic		50	1948		
Shaker conveyor drives ZD-29		Domestic		55	1948		

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Duct ventilators	Domestic		45	1948
Single-drum winches compressed-air motor	Domestic	Up to 25 kw	50	1948
Single-drum electric winches	Domestic	25, 100 kw	6	1948

Table 6. Requirements of the Chorzow Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity		Remarks
			Shown in Investment Plan	Delivery Date	
Rock loaders	5	Type M-21; track gauge: 4 of 600 mm, 1 of 1,050 mm		1948	(Coal Mines: P-- Prezydent, W--Wyzwolenie S--Sienianowice)
Coal loaders	12	Type 12-BU	2	1948	P - 4 Type 14-BU; P - 8 50X1-HUM
	7	Type 14-BU (low type)			Type 12-BU; S - 3 Type 14-BU; W - 4 Type 12-BU
Duckbill coal loaders	5	Heavy-duty type			P - 5
Universal coal cutters	5	Type 10-BU		1948	P - 3; S - 2
Arc Wall coal cutter compressed-air motor		Smallest type	17	1948	For another coal mine

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Arc Wall coal cutters, electric		Smallest type	15	1948	For another coal mine
Bar coal cutter		Type 100 or 105, Demag Vitkovice	44	1948	For another coal mine
Face coal cutter		CLE-5, cutter bar length 2.2 m	19	1948	For another coal mine
Shortwall coal cutter	24	Average type		1948	P - 14; S - 1; W - 9
Electric hand-held drills			150	1948	For all coal mines
Pneumatic hand-held drills			405	1948	For all coal mines
Pneumatic pick hammers	50	10 AZ-11; 95 AT-18	105	1948	For all coal mines
Packing hammers		11 kg	211	1948	For all coal mines
Automatic drills, post-mounted	4	Type A-6		1948	S - 4
Belt conveyers, 650-mm	9	25 - 20-kw; 4 - 32 kw; 7 - 50-kw	36	1948	W - 9, 35-kw
Belt conveyers, 800-mm		9 - 32-kw; 8 - 50-kw	17	1948	For all coal mines
Chain conveyers	16	Type 61-W, capacity 2.5 tons/min, length 100 m			W - 16

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Chain conveyers	45		Type 61-W, capacity 1.5 tons/min, length 100 m	6	1948	P - 45; other coal mines 5
Elevating heads for conveyers	2		Capacity 3 tons/min		1948	P - 2
Shuttle cars	11		6-ton capacity, battery type		1948	P - 5; S - 6
Shaker conveyer drives			175 compressed-air drive; 112 electric	287	1948	For all coal mines
Single-drum electric winches			10 - 15 kw; 20 - 20 kw; 10 - 11 kw	40	1948	For all coal mines
Duct ventilators			90 electric, 300 mm; 34 electric, 400 mm	124	1948	For all coal mines
Mobile compressors	2		Track gauge 1,050 mm and 600 mm		1948	
Coal planer hoists			30 small; 12 large		1948	

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Table 7. Requirements of the Dolny Slask Association of the Coal Industry for Mining Machinery and Equipment From Abroad

<u>Type of Machine</u>	<u>Quantity</u>	<u>Technical Data</u>	<u>Quantity Shown in Investment Plan</u>	<u>Delivery Date</u>	<u>Remarks</u>
Rock loaders	3	Type M-12-B, track gauge 470 mm		1948	
Rock drilling equipment	3	Type Hydrodrill Jib TFM-350, twin-boom, track gauge 470 mm		1948	
Rock drilling machines	5	Safe-stoper type with set of augers and bits		1948	
Hand-held coal drills	60	Type 1468 with gate end box, electric		1948	
Pneumatic pick hammers	60	AT-18 with blower; set of augers		1948	
Pecking hammers	800	Weight 7-10 kg including bits		1948	
Face coal cutters	28	11-CLE-5; CIA-5; 3 AH	6	1948	Length of cable 250 m
Chain conveyers, complete	6	Type 61-W, capacity 1.5 tons/min, trough 5-3/4 in deep, for 20°-40° pitch; compressed-air motor			

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Chain conveyers, complete	8		Type 61-W, capacity 2.5 tons/min, trough 8-1/4 in deep, length 150 m, electric, for 20°-40° pitch		
Chain conveyers, complete	6		Type 61-HG, capacity 1.5 tons/min with maximum elevation, length 40 m, compressed-air motor		
Chain conveyers, complete	10		Type 61-HG, capacity 1.5 tons/min with maximum elevation, length 40 m, electric		
Rubber belt conveyers electric	8		Width of belt 800 mm, 36-kv drive		
Rubber belt conveyers electric	30		Width of belt 650 mm, 24 with 15 kw drive; 6 with 20-hp compressed air-motor		
Shaker conveyer drives	90		50 MED-II; 40 MED-III	100	1948
Cables for coal cutters	800	4-strand, each strand 25 mm thick		1948	

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Table 8. Requirements of the Jaworzno-Mikolow Association of the Coal Industry for Mining Machinery and Equipment From Abroad (Urgent)

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks (Coal Mines: JK--Jan Kanty, Z--Ziemowit)
Coal loaders	10	Type 8-BU, current 500 v, 50 cycles, 3-phase	None	Jun 48	JK - 5; Z - 5
Universal coal cutters	2	Type 10-RU, 500 v, 50 cycles, 3-phase	None	Jun 48	Z - 2
Shortwall coal cutters	12	Sullivan Type 5-BI, or Goodmar Type 512	None	Jun 48	JK - 9; Z - 3
Shuttle cars	9	Type 5-SC, battery-type, 220 cu ft capacity	None	Jun 48	Z - 9
Coal drills, post-mounted, with automatic feed	15	1. Jeffrey A-6 2. Victor style 1468 3. Chicago Pneumatic Tool Co H-1150	None	Jun 48	JK - 12; Z - 3
Pillar chain conveyers	10	Type 61-AM, 30 hp, length 50 m, 500 v, 500 cycles, capacity 1.5-2.2 tons/min. Type 61-W may be substituted if necessary	None	Jun 48	JK - 10
Gathering chain conveyers	5	Jeffrey 61-WH, capacity 2.5 tons, depth of trough 8-1/4 in length 60 m	None	Jun 48	JK - 5

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Rubber belt conveyers, complete	6	Length 300 m, width 800 mm, 32 kw, completely equipped	None	Jun 48	JK - 6
Rubber belt conveyers, complete	4	Length 200 m, width 800 mm, with full equipment	None	Jun 48	Z - 4
Rubber belt conveyers, complete	2	Length 300-m, 650 mm, with full equipment	None	Jun 48	Z - 2
Electrical wiring and supplies necessary for the above-mentioned machines		4-strand cables in 1000-m lengths, with strands in following gauges: 25, 16, 10, 6, and 2.50. Cast-iron 500 v resistors 12, 10, and 25 amp; 4, 20, and 40 amp; 8, 15, and 30 amp. Automatic cutout switches: 4 - 500 v, 40 and 60 amp; 12 - 120 v, 15 and 25 amp	None	Jun 48	JK
Katowice, 30 October 1947					
Face coal cutters		7 CLE-5; 2 CLA-5		11	1948 For new coal mines
Gallery coal cutters, compressed-air		Domestic or M & C Caterpillar traction, Arc Wall		6	1948 For new coal mines

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Bar coal cutters, compressed air	Domestic or Demag, Vithovice	Type 90	19	1948	For new coal mines
Hard-held coal drills		42 electric; 32 com- pressed air	74	1948	For new coal mines
Pneumatic pick hammers		AT-18	5	1948	For new coal mines
Packing hammers		Weight 8-11 kg	30	1948	For new coal mines
Shaker conveyer drives		24 electric; 8 com- pressed air	32	1948	For new coal mines
Coal planer hoists		8 light; 4 heavy	12	1948	For new coal mines
Duct ventilators		25 electric; 20 com- pressed-air motor	45	1948	For new coal mines
Winches		2 two-drum, electric, 5 kw; 10 two-drum, 15 kw	12	1948	For new coal mines
Winches		5 single-drum, com- pressed-air motos, 15 hp	5	1948	For new coal mines

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Table 9. Requirements of the Ruda Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks (Coal Mines: W--Wirek, B--Bobrek)
Face coal loaders	2	Type 44-L	--	1948	W
Filler coal loaders	4	Joy S-BU, larger size, 500 v	--	1948	W - 2; B - 2
Duckbill loaders	6	Average type, complete	--	1948	W
Universal coal cutter	3	10-Ru	--	1948	W - 2; B - 1
Gallery coal cutter	1	Arc Wall	--	1948	W - 1
Automatic drills, post-mounted	1	A-6 with drill steels	--	1948	W - 1
Hand-held coal drills	12	Type 1468 with installation equipment and augurs	--	1948	W - 6; B - 6
Shuttle cars	8	Battery-type, Type 42-D, capacity 4 tons, with 8 spare batteries, and 2 battery charging stations	--	1948	W - 4; B - 4
Winches	10	Power 7.5 kw, 500 v 50 cycles	--	1948	W - 5; B - 5

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Coal planer hoists	4			1948	W - 2; B - 2
Chain conveyers	2		Type 61-W, 8-1/4 in, capacity 2.5 tons/min with pitch of 10°, length 80 m	-- 1948	W - 1; B - 1
Rubber belt conveyers	4		Width 1,000 mm; capacity 3 tons/min at an elevation of 8°; length: 1 of 90 m, 1 of 150 m, 2 of 200 m	-- 1948	W - 4
Belt conveyers	3		Width 800 mm; capacity 3 tons/min, one with 7° elevation 150 m long; 2 level 90 m long	-- 1948	B - 3
Conveyer belt accessories, such as sewing and adjusting machines	5 each				W; B
Dust ventilators	20		Diameter of duct 300 mm capacity 125 cu m/min	-- 1948	W - 10; B - 10
Centrifugal pumps	2		Head 80 m, displacement 0.5 cu m/min, 500 v	-- 1948	W - 1; B - 1
Centrifugal pumps	4		Head 35 m displacement 0.3 cu m/min, 500 v	-- 1948	W - 2; B - 2

Necessary installation equipment such as cables, distribution and switchboards, fuses and switches; 270 miners' helmets with lamps

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Electric shaker conveyer drives	Domestic	69 small; 78 medium; 102 large	249	1948	For all coal mines
Shaker conveyer drives, compressed-air	Domestic	7 MED-I; 18 MED-II; 7 MED-III; 22 LD-23; 14 LD-29	66	1948	For all coal mines
Longwall coal cutters electric		CLE-5 or Ace of Diamonds	19	1948	For all coal mines
Bar coal cutters		Type 105	10	1948	For all coal mines
Pneumatic pick hammers		35 AT-18; 16 AZ-11	96	1948	For all coal mines
Hand-held drills, compressed air			209	1948	For all coal mines
Packing hammers	Domestic	8-11 kg	253	1948	For all coal mines
Drives for 650 mm belt conveyers		3 compressed air; 48 electric	51	1948	For all coal mines
Drives for 800-mm belt conveyers	Domestic	Electric, 66-800 mm, 15-1,000 mm	81	1948	For all coal mines

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Table 10. Requirements of the Bytom Association of the Coal Industry  
for Mining Machinery and Equipment From Abroad  
(Principal Coal Mines: Radzionkow and Andalusja)

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks (destination)
Coal loaders	2	Type 14-BU			
Coal loaders	5	Type 8-BU			
Coal cutter-loader	1	Complete; capacity 2 tons/min			Centrum coal mine
Universal coal cutter	5	Standard			
Shortwall coal cutter	3	Average type with shuttle cars, undercut 2 m, narrowest possible caterpillar chassis			
Chain conveyers	16	Length 90 m, capacity 2.5 tons/min, for inclined operation, Type 61-W, trough 8-1/4 in deep			
Chain conveyers	12	Length 90 m, capacity 1-1.5 tons/min for inclined operation. Type 61-W, trough 5-3/4 in deep			

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Rubber belt conveyers, complete	10	Width of belt 800 mm, power of drive 32 kw, 500 v, capacity 4.5 tons/min, length 150 m			
Longwall coal cutters, electric		CLE-5 or Ace	8	1948	All coal mines
Longwall coal cutters, compressed-air motor		CLA-5	2	1948	All coal mines
Gallery coal cutters, electric		Arc Wall, caterpillar-mounted	16	1948	All coal mines
Gallery coal cutters, compressed-air motor		Arc Wall, caterpillar-mounted	6	1948	All coal mines
Bar coal cutters		Type 105	21	1948	All coal mines
Pneumatic pick hammer		AZ-11	50	1948	All coal mines
Hand-held coal drills electric			200	1948	All coal mines
Hand-held coal drills, compressed-air motor			75	1948	All coal mines
Shaker conveyor drives electric and compressed-air motor		Electric: 14 large, 30 medium, 14 small. Compressed-air motor: 21 MED-I, 16 MED-II, 26 MED-III	132	1948	All coal mines

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Drives for rubber belt conveyer 800 mm	27 small; 40 average; 11 large	78	1948	All coal mines
Drives for rubber belt conveyer 650 mm	19 small	19	1948	All coal mines
Single-drum winches, electric and compressed-air motor	Electric: 29 of 15 hp; 1 of 25 hp. Compressed-air motor: 2 of 15' hp	32	1948	All coal mines
Duct ventilators, electric	156 electric; 44 compressed-air motor	200	1948	All coal mines
Coal planer hoists, large and small	127-1,500 kg; 123-3,000 kg	250	1948	All coal mines
Packing hammers	KS-11	400	1948	All coal mines

Table 11. Requirements of the Dabrows Association of the Coal Industry for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks
Rock loaders	19	5 Type M-12-B; 14 Type M-21		1948	Information on questionnaires
Duckbill coal loaders	2	Medium type		1948	Klimontov coal mine

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Face coal loaders	2		Complete with cutters and belt conveyers for walls 90 m long	1948	Grodziec coal mine
Pillar coal loaders	6		8-BU	1948	Kazimierz coal mine
Jumbo drilling assembly	16		Type TPU-350, twin-boom, with augurs and bits	1948	As per questionnaire
Coal drills, post-mounted	4		Type A-6, with augurs and bits	1948	Czeladz coal mine
Rock drills, post-mounted	2		Type TFM-350, post-mounted, 3.70 m high, with drill steels and bits	1948	Saturn coal mine
Pneumatic pick hammer with bits	132		102 Type AT-18 with blower; 30 Type Az-11	48	1948-49
Packing hammers with augurs	123		68-10 kg; 55-8 kg	40	1948-49
Hand-held drills	670		270 compressed-air motor; 400 electric, complete	140	1948
Gallery coal cutters	3		Arc Wall Type		1948
Shortwall coal cutters	18		Medium type		1948

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Face coal cutters	15		Type CLE-5	5	1948	
Chain conveyers	20		Type 61-W, up to 1 ton/ min, length 100 m		1948	Kazimierz coal mine - 10; Czeladz coal mine - 10
Chain conveyers	36		21 Type 61-R-6, length 30 m, capacity 1.5-2.5 tons/min. Type 61-W; 8 length 60 m; 7 length 100 m		1948	50X1-HUM
Rubber belt conveyers	60		Width 650 mm, belt length 150 and 200 m	23	1948	
Rubber belt conveyers	79		Width 800 mm; belt lengths; 7 of 400 m; 8 of 300 m; 19 of 200 m; 45 of 100 m	18	1948	
Shaker conveyer drives	202		164 electric; 38 compressed-air motor	45	1948	
Single-drum winches	15		11 compressed-air motor, 15 hp; 4 electric, 50 hp		1948	
Centrifugal pumps	99		10 compressed-air motor, 0.3 cu m/min 30 electric, 0.2 cu m; 22-0.5 cu m; 16-1 cu m; 11-2 cu m; 10-3 cu m		1948	
Pillar coal cutters		Vitkovice, Czechoslovakia	Types 100, 105	33	1948	Various coal mines

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Ventilators, electric and compressed-air motor	Domestic	118 electric; 64 compressed-air motor	182	1948	Various coal mines
Coal planer hoists, large and small	Domestic	41-3,000 kg; 49-1,500 kg	90	1948	Various coal mines

Table 12. Requirements of the Association of Mining and Drilling Enterprises for Mining Machinery and Equipment From Abroad

Type of Machine	Quantity	Technical Data	Quantity Shown in Investment Plan	Delivery Date	Remarks
Rock loaders	10	Type 12-B, track gauge in questionnaire	5	1948	
Drilling assembly	5	Hydrodrill Jib TPM-350, twin boom	5	1948	
Pneumatic pick hammers	15	Sullivan TPM-350		1948	
Pneumatic pick hammers for shafts	150	Type IB-4 or Böhler 22-W, water-stream, augurs, bits; 42, 40, 38 mm		1948	
Winches	5	5-60-70 hp, single-drum, with signal equipment, electric		1948	

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Pumps, suspended, for shafts	22	Head 250 m, displacement: 4 of 2 cu m/min; 8 of 1 cu m/min; 10 of 0.5 cu m/min; power 500 v, 400-m cable	1948
Pumps, stationary	12	500 v, head 250 m displacement 4 of 2 cu m/min; 8 of 1 cu m/min	1948
Diaphragm pumps	100	Compressed-air motors, head 50 m, 100 m, displacement 50 of 0.2 cu m/min; 50 of 0.4 cu m/min and up	1948
Drilling rig	3	Type DD 3-B, complete with equipment (tools) Failing Type 1500	
Compressors, mobile	37	17 WM-102, 445 CPM /CPM, cu ft/min?;/ 10 WM-102, 720 CPM; 10 WK-29, a 120, 127 CPM	Gauge 1,050 mm
Freezers, regular	4		
Freezers, low temperature	3		
Assembly for drilling bore holes of large diameter	171 55 5 180	For compact and loose soil. For bore holes up to 2 m and more. Minimum drilling depth: 100 m or more	

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Vertical position indicator for bore holes 1

Pumps for cement 5

Cutting and loading machines for deepening shafts

Apparatus for underground test drilling 4

Pneumatic pick hammers with supports 200

Vertical machines for sharpening augurs and bits 2

Joy rock loaders 3

Shuttle cars 3

Conveyer elevating head 3

For work in pipes.

High powered, for pressure-pumping cement, up to 100 at pressure, 20 cu m/hr

To a depth of 130 m

100 pick hammers Type RB571W, with supports Type 13690-A21; 100 pick hammers Type RB655W, with supports Type 13690-A22

300 drill steels each type, 2 m long, spare parts as per specifications

Capacity 3 cu m; battery-type

For experimental purposes

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