

allmineral

Marco Steinberg / Hakan Özdemir

17.11.2021

AGENDA

- about us
- products
- allair - principal
- allair - application
- allair - inpit beneficiation

01 About us

About us

allmineral



85+
Employees



HQ Düsseldorf,
Germany



7
Subsidiaries

Since 2013 member of the HAZEMAG Group
with the major shareholder
Sinoma International Engineering Co., Ltd.
&
Schmidt, Kranz Group



Success and efficiency – for over 30 years

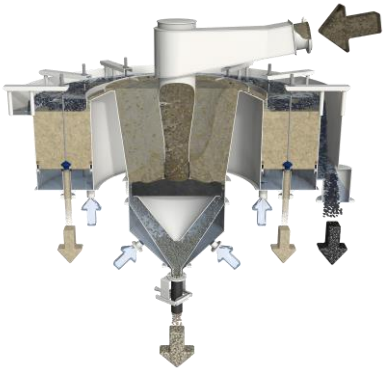
- Nearly 500-strong **global team** with wide-ranging **specialist knowledge**, years of **experience** and targeted **expertise**
- Our passion: generating **creative solutions** tailored to your needs and putting them into action
- Trend-setting continuous **optimisation** of our existing products
- Constant **progress** through the **development** of innovative new applications at our Global Testing & Research Center
- As part of the HAZEMAG Group, we develop **future processing solutions** from a single source – worldwide

02 Our products

Our products

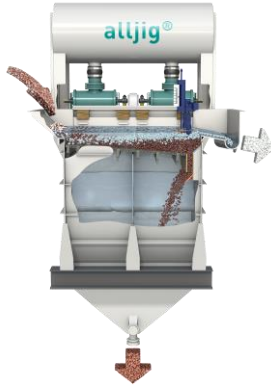
allflux

- Gravity Separation
- Wet
- Fluidized bed separator
- 2 – 0 mm



alljig

- Gravity Separation
- Wet
- Jigging
- 150 – 0.5 mm



allair

- Gravity Separation
- Dry
- Jigging
- 50 – 0.5 mm



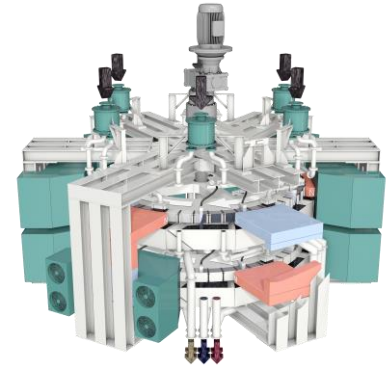
allflot

- Flotation Technology
- Wet
- Pneumatic Cell
- 0.02 – 0.5 mm



allgauss

- Magnetic Separation
- Wet
- WHIMS
- 2 – 0 mm



applications and our products – different application variations

Coal



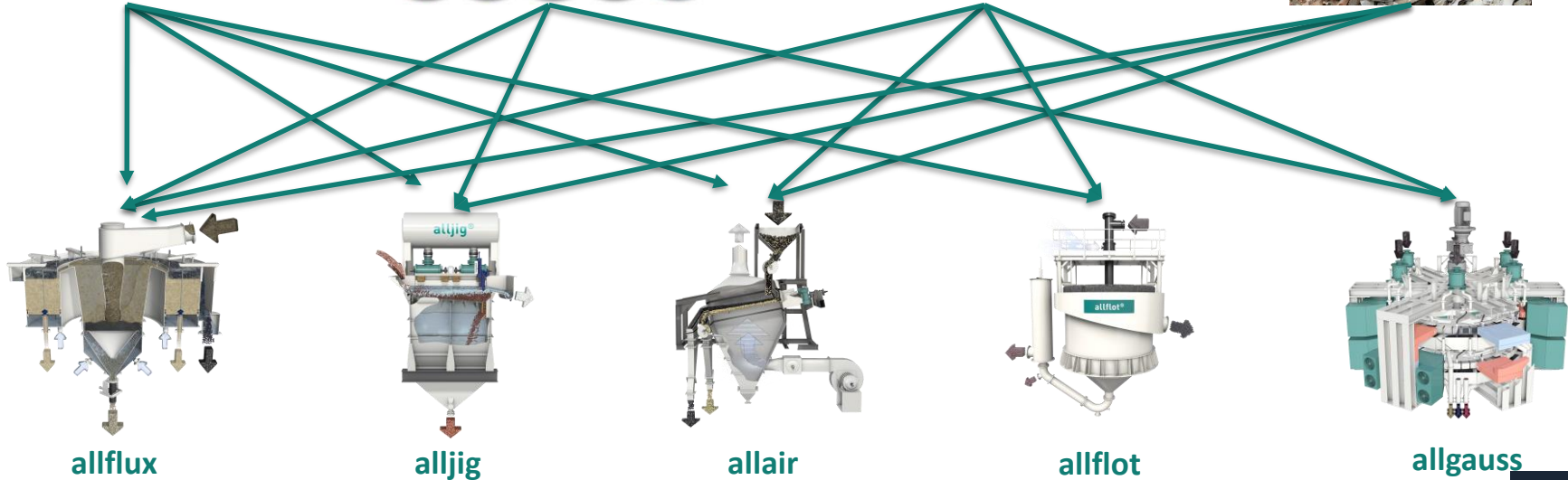
Gravel & Sand



Ores

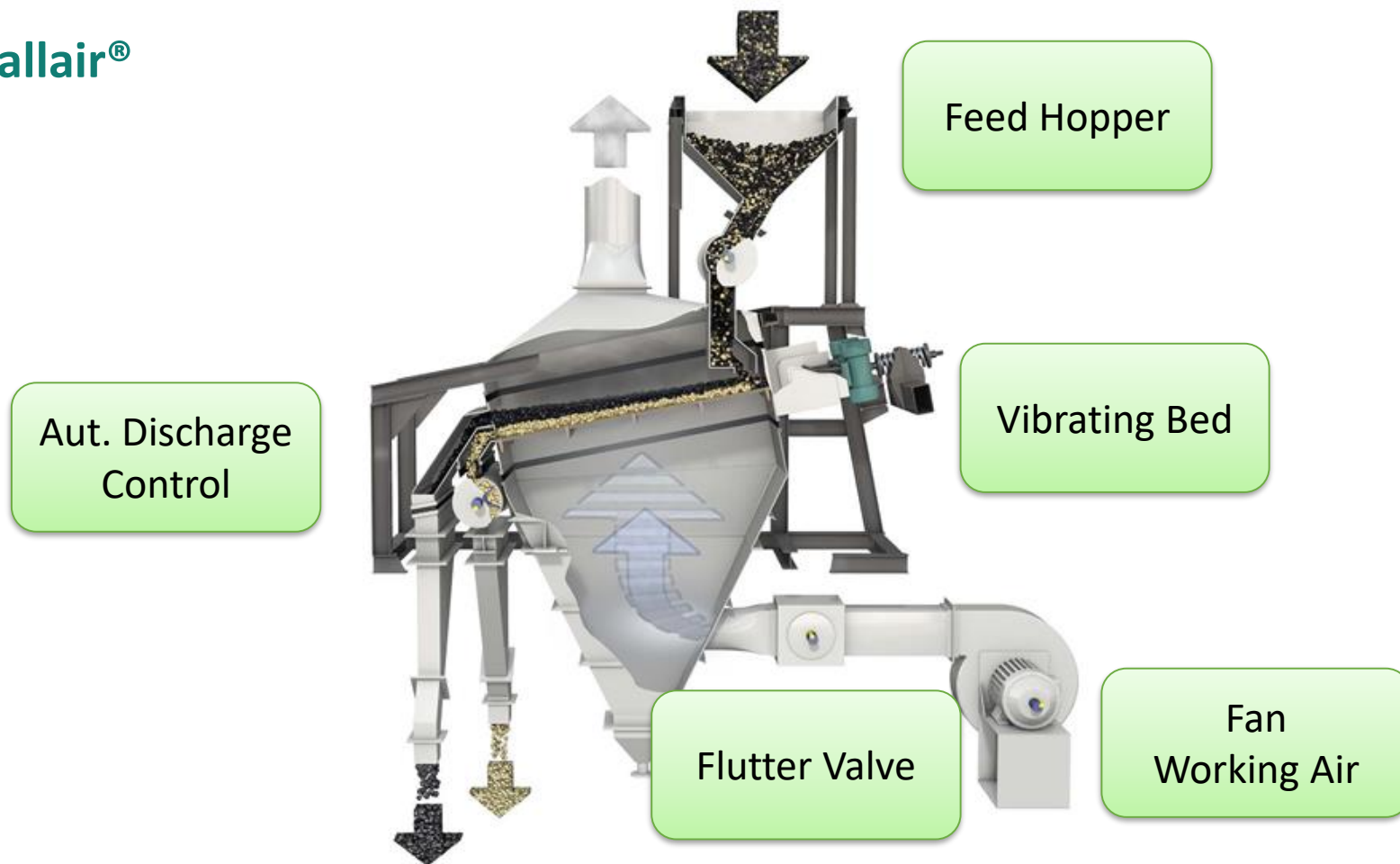


Rubble (Recycling)



03

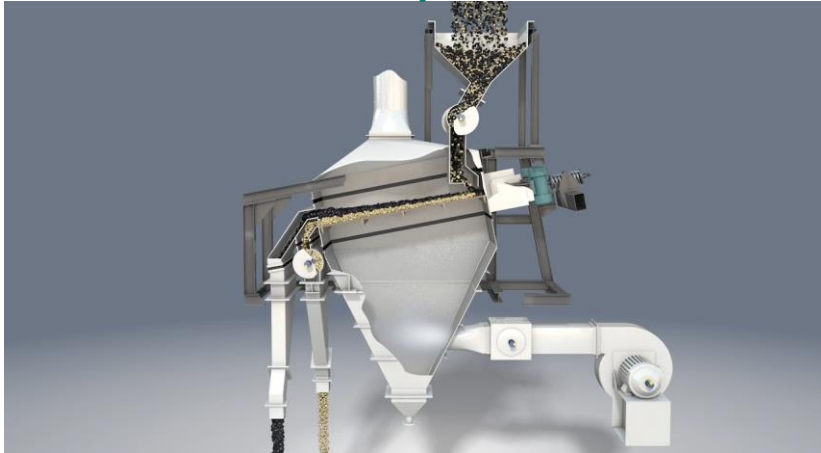
allair® - PRINCIPAL



How It Works

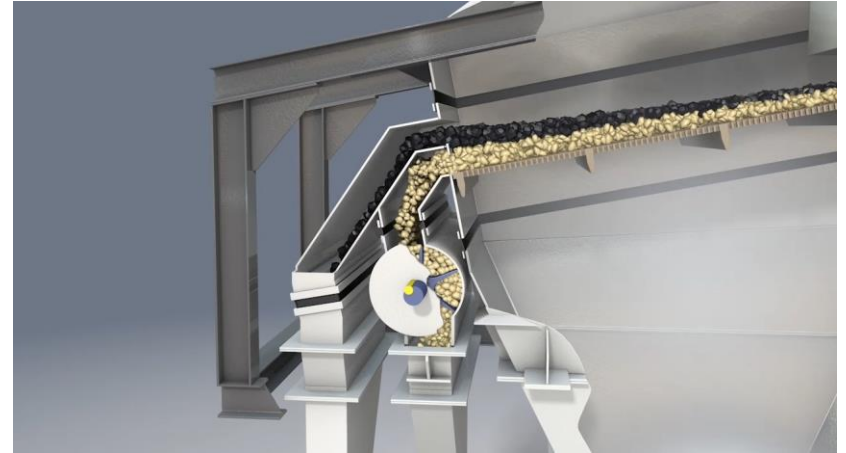
allair® System

- Fluidization
- Separation
- Transport



allair® Discharge Control

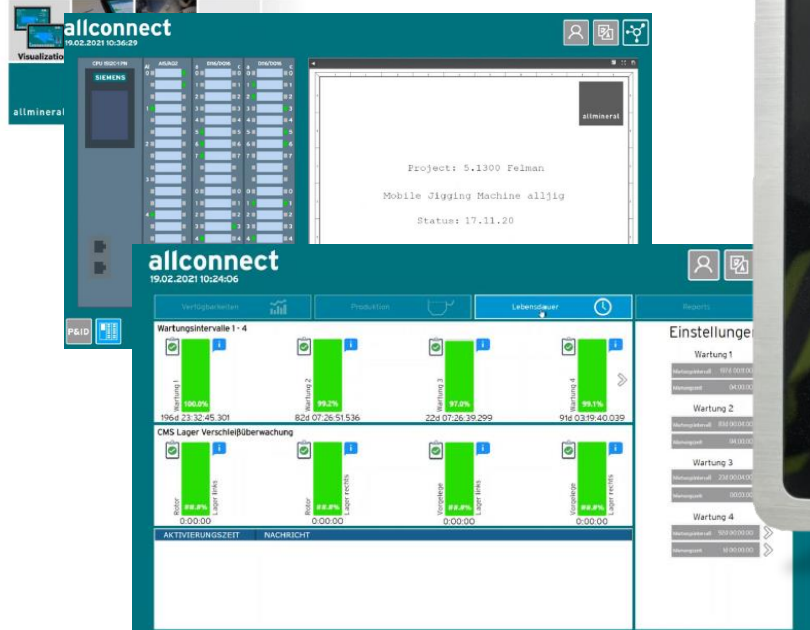
- Detection
- Measuring
- Control



always connected – allconnect®



Visualization - Reports - Analyze - Connectivity - Service



04

allair® - APPLICATION

Tested and Proven Applications

Ferro-Niobium



Battery Shredder



Food (?)



Incineration Slag



Iron Ores

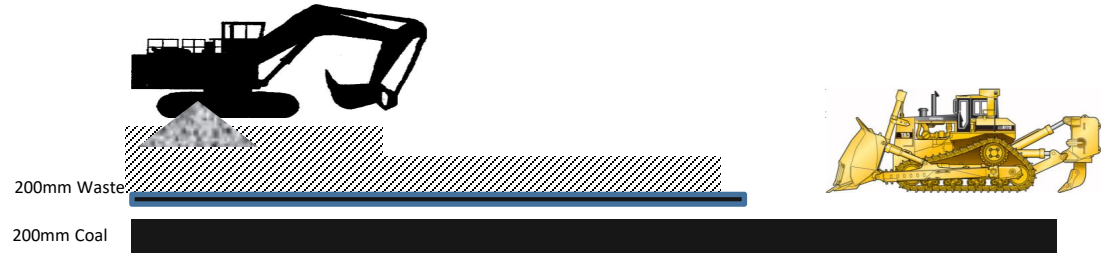


Products C&D Waste

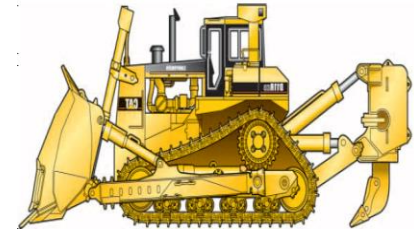
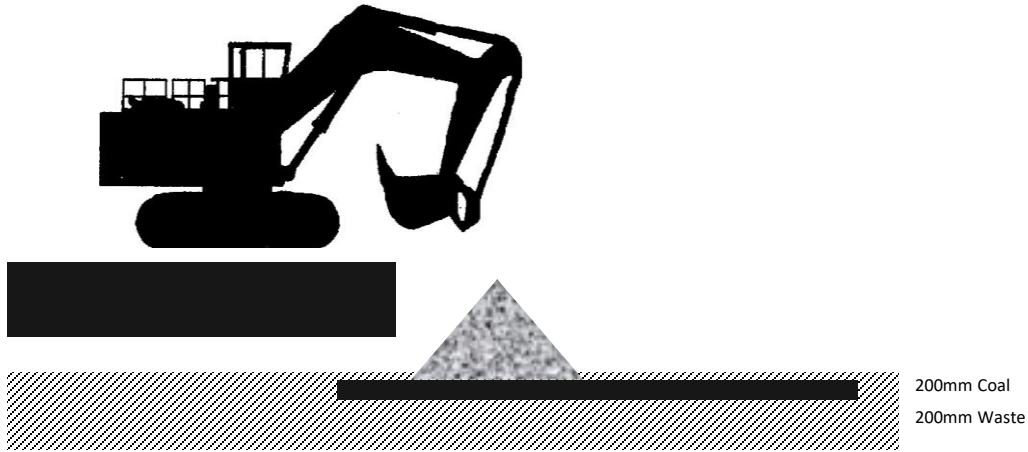
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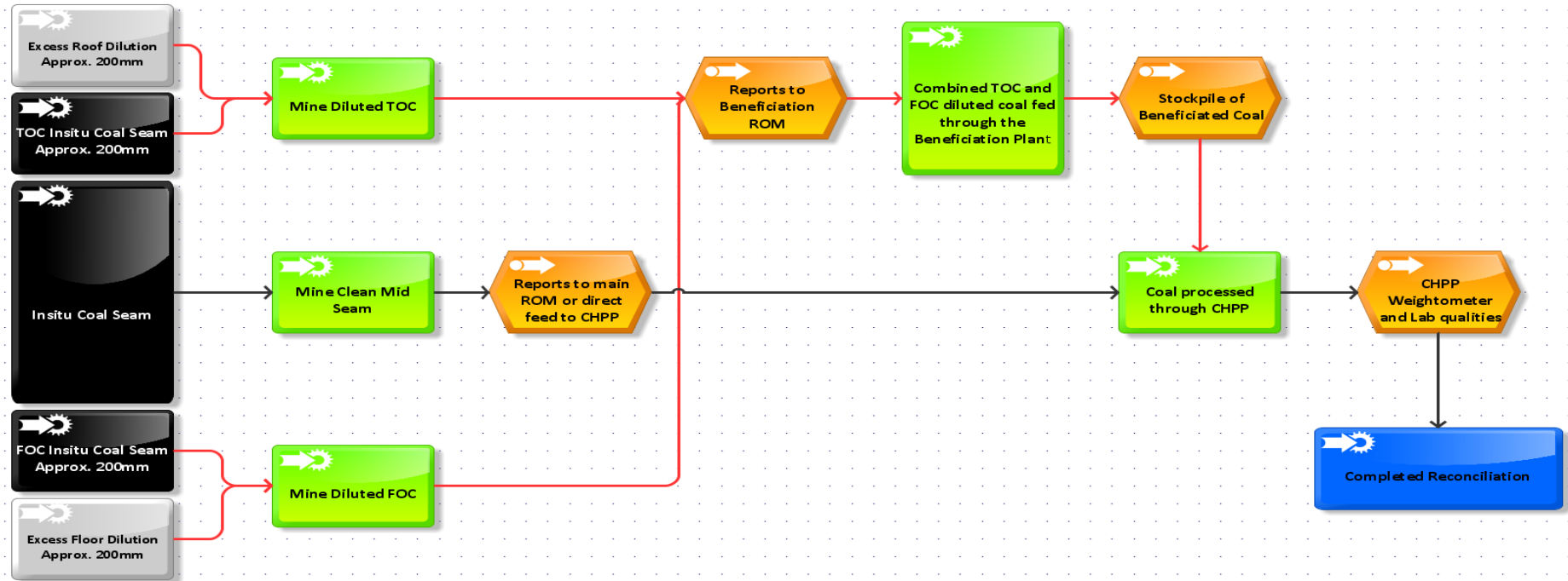


05 allair® - INPIT BENEFICIATION



Clean Coal
(Mids)





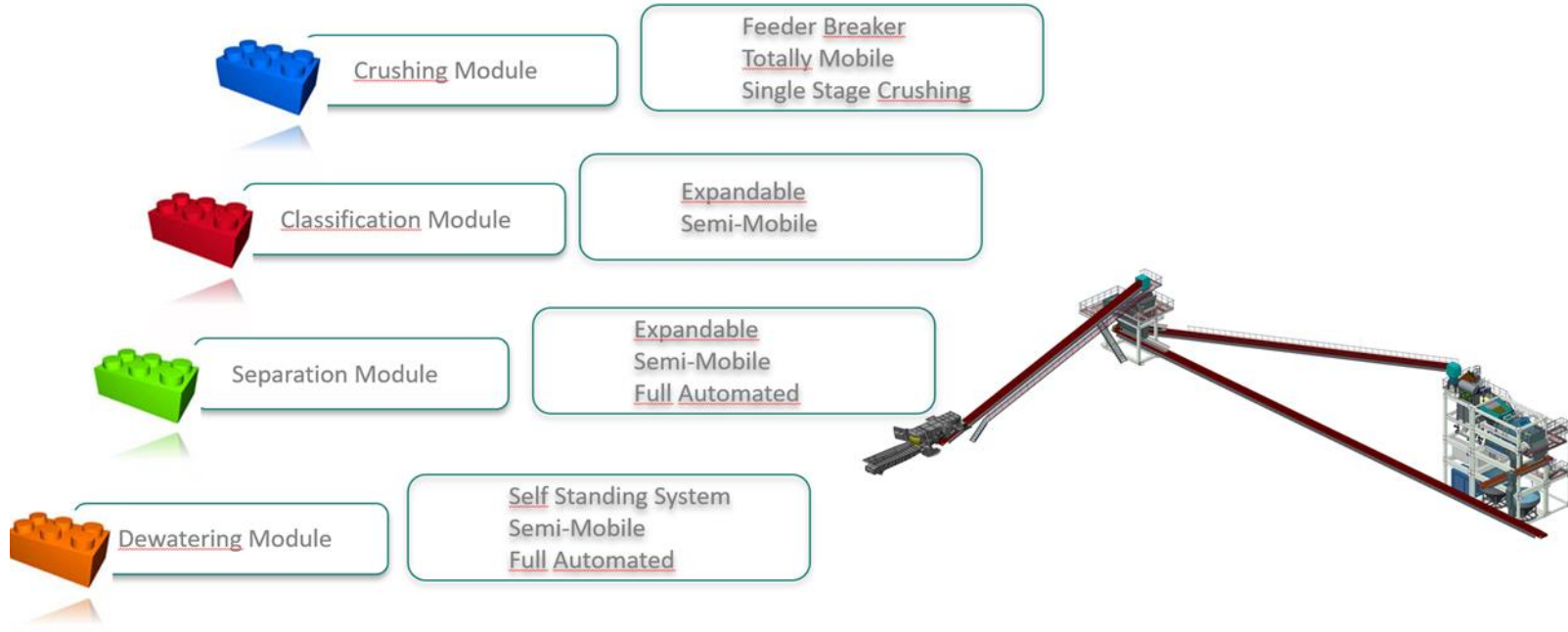
In Pit Dry-Beneficiation

allmineral

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Innovative separation and processing technology

alljig® / allair® I Modular I Mobile Processing Plants



- Higher efficiency in coal production
- Higher overall coal recovery
- Semi-mobile-modules
- Less transportation
- Less tailings
- Less OPEX

IN PIT BENEFICIATION



SAMPLE STUDY ON AN AUSTRALIAN COAL

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Allair / Feed 20-50mm	Layer	Sample No.	Weight	Weight [%]	cum. Weight [%]		Ash %	cum. Ash-%	
			[g]	[%]	Σ↑	Σ↓		Σ↑	Σ↓
	8	L - 2	6.160,0	11,91	100,00	11,91	7,62	41,29	7,62
	7	L - 3	4.950,0	9,57	88,09	21,49	8,38	45,84	7,96
	6	L - 4	4.050,0	7,83	78,51	29,32	8,54	50,41	8,11
	5	L - 5	4.470,0	8,64	70,68	37,96	8,67	55,05	8,24
	4	L - 6	4.680,0	9,05	62,04	47,01	10,85	61,51	8,74
	3	L - 7	5.220,0	10,09	52,99	57,11	13,76	70,16	9,63
	2	L - 8	7.900,0	15,28	42,89	72,38	69,39	84,50	22,24
	1	L - 9	14.280,0	27,62	27,62	100,00	91,21	91,21	41,29
			51.710,0	100,00			41,29		

Allair / Feed 0-50mm	Layer	Sample No.	Weight	Weight [%]	cum. Weight [%]		Ash %	cum. Ash-%	
			[g]	[%]	Σ↑	Σ↓		Σ↑	Σ↓
	11	L - 13	15,8	14,34	100,00	14,34	10,37	38,58	10,37
	10	L - 14	22,0	19,98	85,66	34,32	10,42	43,30	10,40
	9	L - 17	4,9	4,47	65,68	38,79	12,42	53,30	10,63
	8	L - 18	5,1	4,66	61,21	43,44	13,10	56,29	10,90
	7	L - 19	6,4	5,86	56,56	49,31	13,34	59,85	11,19
	6	L - 20	6,5	5,92	50,69	55,23	14,18	65,22	11,51
	5	L - 21	4,0	3,68	44,77	58,91	19,32	71,98	12,00
	4	L - 22	5,7	5,23	41,09	64,14	43,87	76,70	14,59
	3	L - 23	8,5	7,69	35,86	71,83	73,55	81,48	20,91
	2	L - 24	8,7	7,90	28,17	79,72	78,85	83,64	26,65
	1	L - 25	22,3	20,28	20,28	100,00	85,51	85,51	38,58
			110,0	100,00			38,58		

Kontakt / Contact

Firma / Company

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