



Ukrainian
Mineral
Fertilizers

UKRAINIAN MINERAL FERTILIZERS LLC

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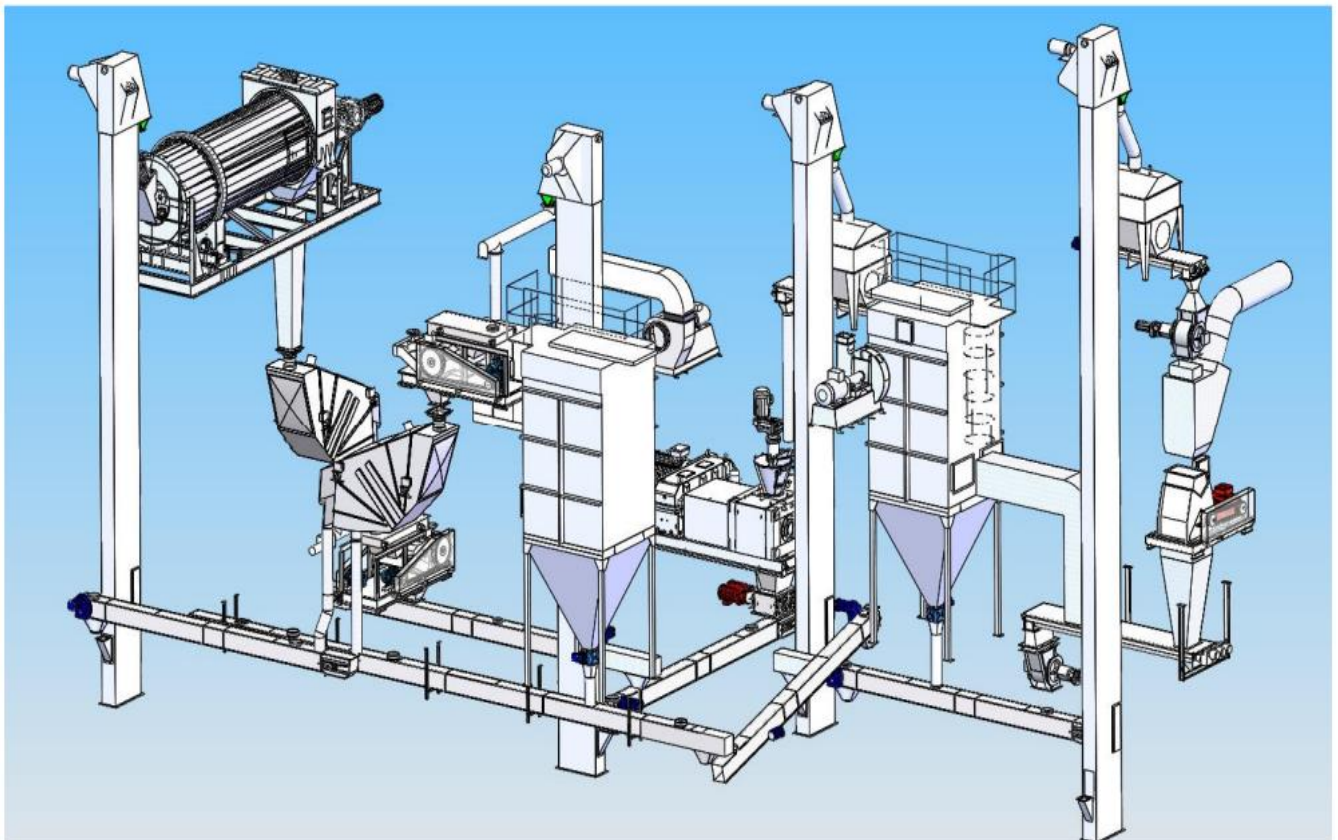
15.03.2023

COMMERCIAL OFFER

TO THE LINE FOR THE PRODUCTION OF MINERAL FERTILIZER:

ammonium sulphate granula,
ammonium sulphate granula with micronutrients
NPK

1. Line productivity - up to 15 t / h for the finished product
2. The finished product is an irregularly shaped granula (chipped)
3. Equipment manufacturing country – Germany/Ukraine



Year of production - 2018

The number of hours worked by the equipment - about 14000 (13983,850)

1. List of equipment:

№	Equipment	Quantity	kW	Model	Producer
1	Silo, V= 5 м3	3	1,65	-	Techpromsystems LLC Ukraine
2	Silo, V= 3 м3	3	0	-	
3	Hammer mill	1	30	250x1000	
4	Dosing belt feeder	3	6,6	DL-400-1,05	
5	Dosing screw feeder	3	3,3	DSH-0,7	
6	Belt inclined conveyor	1	3	LK-650-11	
7	Belt inclined conveyor	1	3	LK -650-6,4	
8	Hopper feeder with built-in screen	1	2,4	GSL-21-MБ2	KVMSH PLUS LLC Ukraine
9	Belt conveyor	1	3	LK -650-12	
10	Bucket elevator	1	7,5	GES 500x280	Romberger, Germany
11	Neodymium magnet	1	0	Neodymium N35	Premium Magnets Germany
12	Dosing silo (V=3 м3) with discharging screw (2 pcs.)	1	7	MSA 250-2.730	Romberger Germany
13	Rotary valve	1	2,2	ZRS 275 MRL	
14	Inlet box for hammer-mill	1	0	-	Hosokawa Allpine Germany
15	Hammer-mill- dryer	1	55	HUM1008	Hazemag Germany
16	Air heater with gas burner	1	1,5	KRON-1,0 Turbo	IC "Promgazapparat" (ICP) Ukraine
17	Screw conveyor	1	5,5	AS 300-4.960	Romberger Germany
18	Rotary valve	1	2,2	ZRS 275 XL MRL	
19	Through chain conveyor	1	7,5	VBR-150-7-300	
20	Filtration (aspiration) system of the mill-dryer	1	37	Sfdt-05/12-D-02	Scheuch Germany
21	Bucket elevator	1	7,5	GES 500*280	Romberge Germany
22	Dosing silo (V=3 м3) with discharging screw (2 pcs.)	1	7	MSA 250-4.150	
23	Roll compactor	1	440, 55	ARC MC 300	Hosokawa Allpine Germany
24	Pre-crusher disk	1	8	PC-D 500	
25	Roller crusher	1	34,5	WBG 5/6-PN	Merz Germany
26	Through chain conveyor	1	5,5	VBR-150-7-300	Romberger Germany
27	Bucket elevator	1	7,5	GES 500*280	
28	Screw conveyor	1	5,5	TS 400-3.200	
29	Vibrating screen	1	2,2	MSizer L1046- D8940	Mogensen Germany
30	Through chain conveyor	1	7,5	VBR-150-7-300	Romberger Germany
31	Through chain conveyor	1	7,5	VBR-150-7-300	
32	Screw conveyor	1	5,5	TS 300-3.170	
33	Roller crusher	1	61,2	WBP 5/8	Merz Germany
34	Through chain conveyor	1	7,5	VBR-150-7-300	Romberger Germany
35	Belt conveyor	1	7,5	MFB 500-4.150	

36	Bucket elevator	1	7,5	GES 500*280	
37	Drum for processing granulas with anti-caking agent + anti-caking agent supply and dosing system	1	7,5	ST 60/7 D A	Allgaier Germany
38	Two way valve	1	0	Jacob 654230027-23	Jacob Germany
39	Vibrating screen	1	2	Sizer SH1036 D8941	Mogensen Germany
40	Big bag packing station	2	20	DVS-301-1000-1	LLC NPF "Sveda, LTD" Ukraine
41	Filtration system for general dust removal (bag filter, fan)	1	18,5	Sfdt-05/09-C-02	Scheuch Germany
42	Compactor cooling system	1	8	Weco 24.1 ab (S 1001 4101)	GWK Germany
43	Compressors with refrigeration (2 pcs.) and absorption dryers	2	15	Tidy 10	Dalgakiran Turkey
44	Electrical cabinet	2		-	Lebenstedt Germany
45	Control room and software based on Siemens	1		-	Hosokawa Alpine Germany
46	Spare parts and tools (Appendix 1)				

2. The maintenance intervals for the equipment are specified in the passports and operating recommendations (see p. 9).

3. Nominal indicators for energy resources:

- ✓ Natural gas - 1 MW*h (maximum power);
- ✓ Electricity - 1 MW (rated capacity), actual 871.8 kWh.

4. Equipment's advantages:

- ✓ The finished product retains 100% flowability for up to 12 months, in case maintaining the integrity of the package and observing storage conditions. This is ensured by the finished granula strength - 4-6 kg / granula;
- ✓ Processing raw materials of different quality (humidity, particle size);
- ✓ Possibility of producing a finished product in 3 fractions (monofraction - universal; small granula - precision farming; large - spreaders and seeders);
- ✓ Protection system for mechanical impurities (metal inclusions, stones, fabrics, etc.);
- ✓ Automated production process based on Siemens.



5. Installation and commissioning:

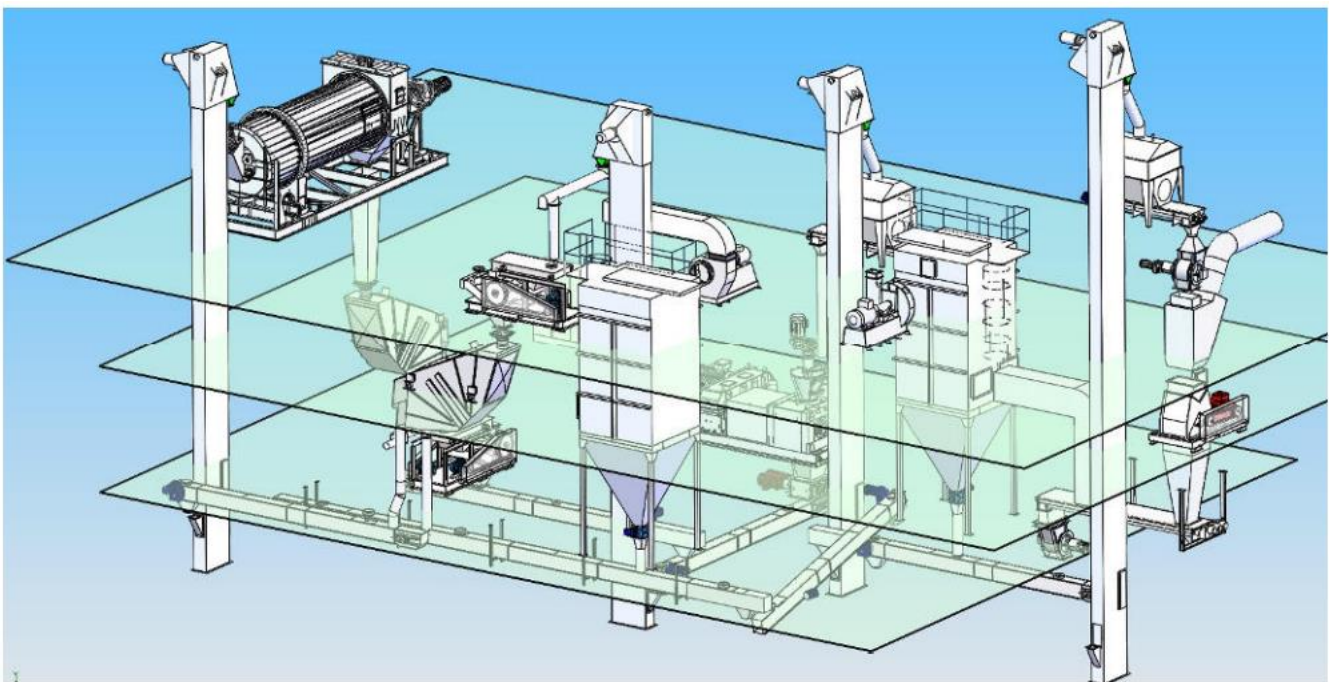
- ✓ To control the installation and commissioning - engineers from the company UMF (2 person).
 - ✓ To control the installation - an engineer from Hosokawa (1 person);
- Costs to be discussed separately.

6. Documentation provided with the equipment:

- ✓ Hosokawa engineering documentation (eng., rus.)
- ✓ Project documentation in accordance with Ukrainian standards (rus.)
- ✓ Passports for equipment and operating manuals for each piece of equipment (eng., rus.)
- ✓ Equipment drawings (dwg, pdf)
- ✓ List of instrumentation equipment

7. Supply of equipment - complex.

8. The service life is at least 10 years, in case of timely maintenance and repair of equipment.



Drawing 1. 3D model





Photo 1. Equipment in the plant configuration



Photo 2. Roll compactor





Photo 3. Roll compactor



Photo 4. Vibrating screen





Photo 5. Electrical cabinet

