

Bou Chalhoub EST.

Company Profile

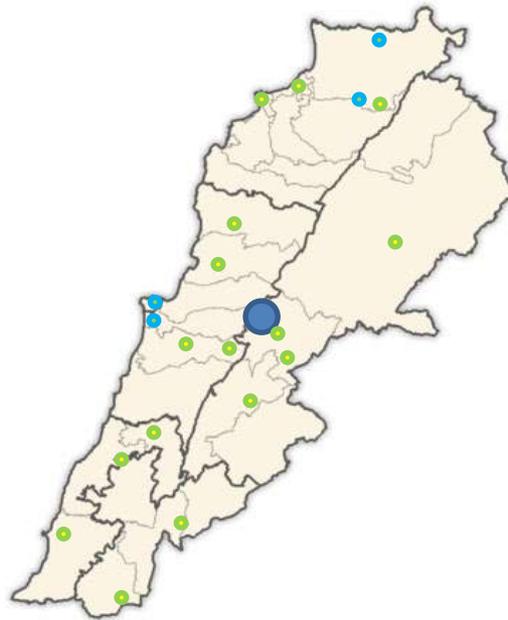
Waste Treatment Department

January 2020



Where we are

BOU CHALHOUB Est. Workshop and offices is located in the industrial City of Zahle – Lebanon



- Bou Chalhoub Headquarters
- Waste-treatment Projects supplied and installed
- Ongoing Waste-treatment projects

Who we are

BOU CHALHOUB Est. is a family business founded by Tony Bou Chalhoub in 1966.

The core of the business is the production of different kinds of mechanical processing equipments for different kind of industries (food, agriculture, feed, cement... and most recently solid waste)



One of our first Machines



Who we are

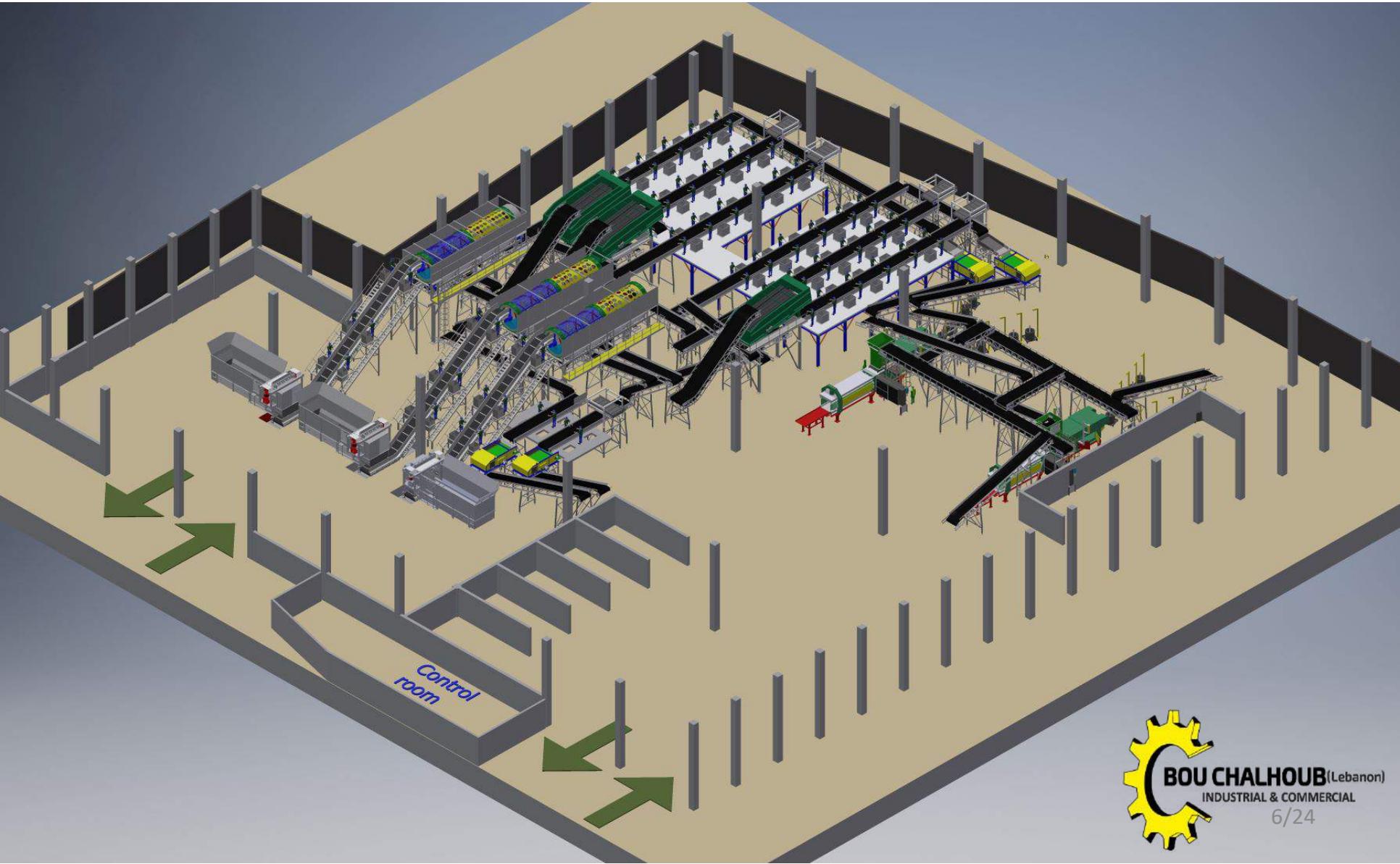
Through the years, and to enhance the technical capabilities and develop its “know how”, BOU CHALHOUB Est. established different partnerships with European companies (such as Pezzolato SpA ,Gauss Magneti SRL, KOMPTECH GmbH, Matthiessen Lagerthechnik, UNTHA, etc)



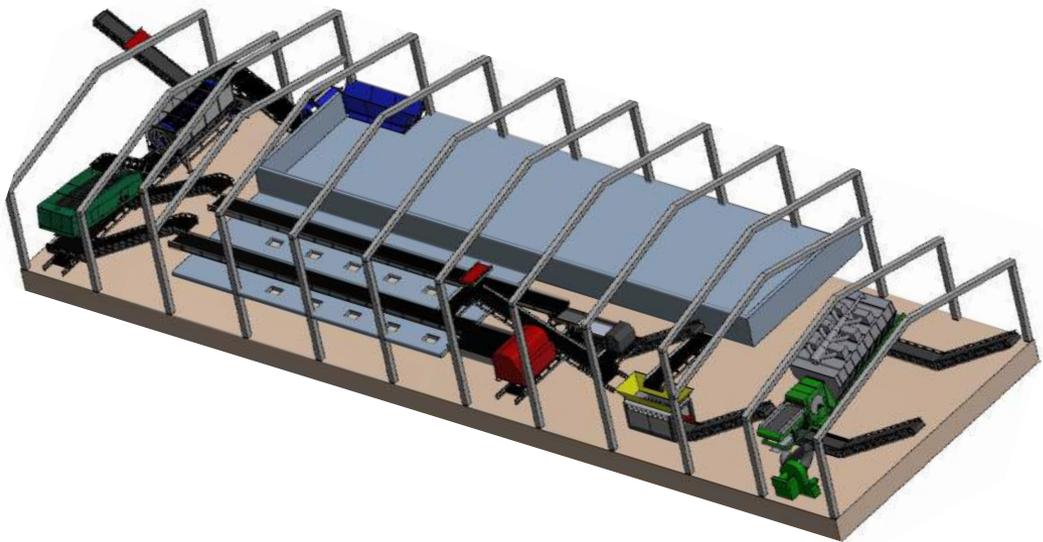
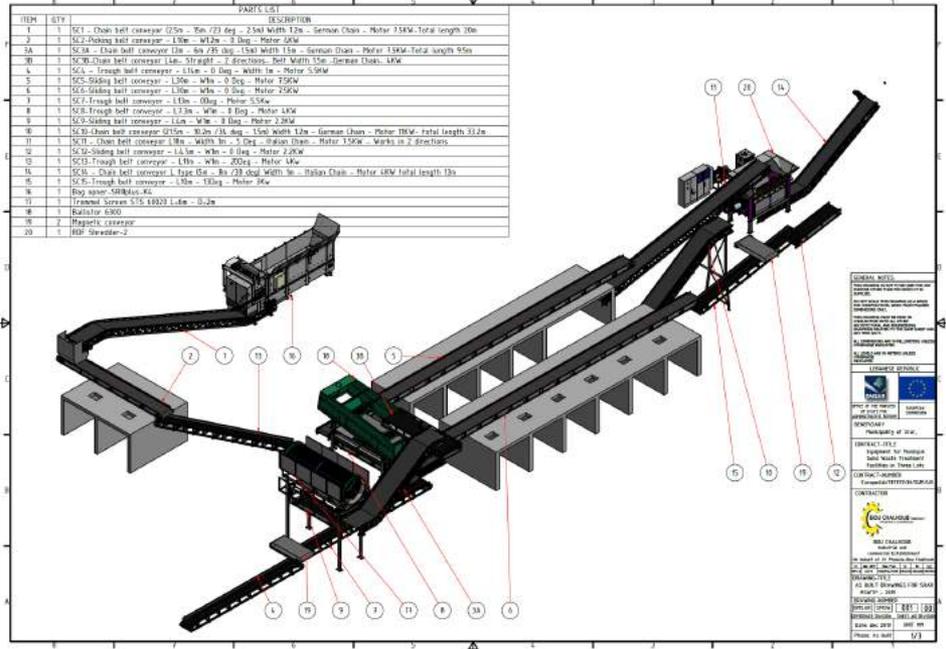
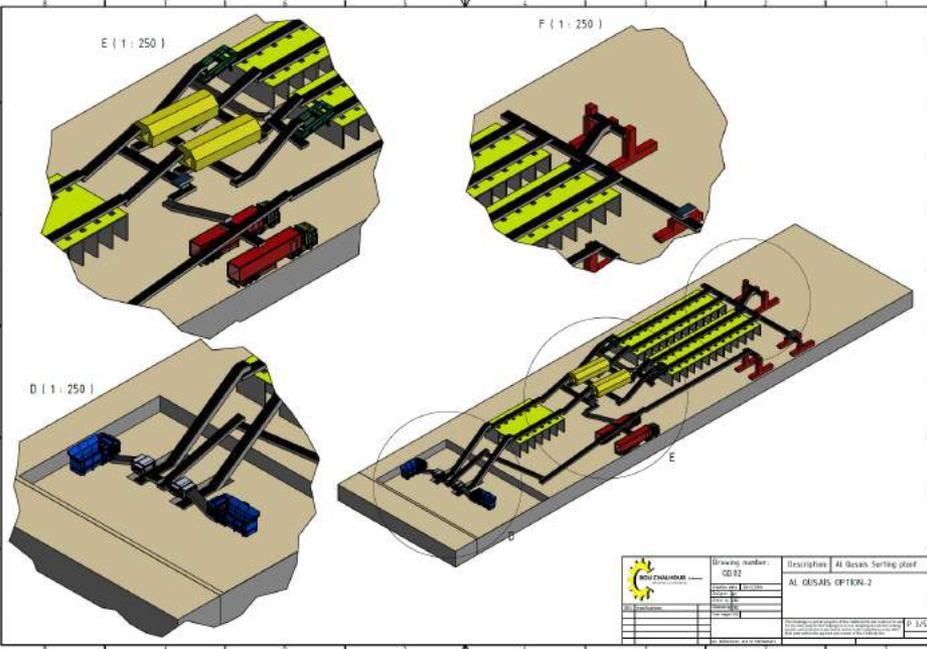
What we do in the waste treatment industry:

- Design & Engineering
- Manufacturing
- Installation, Testing & Commissioning
- Maintenance

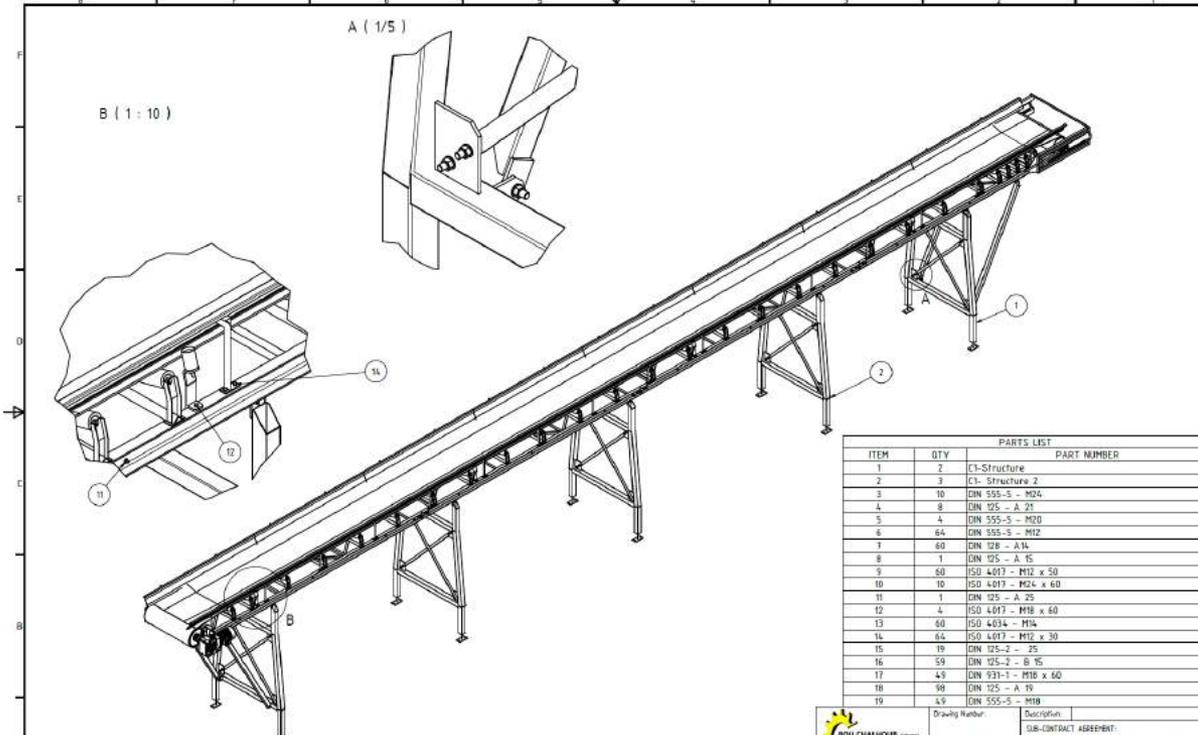
DESIGN



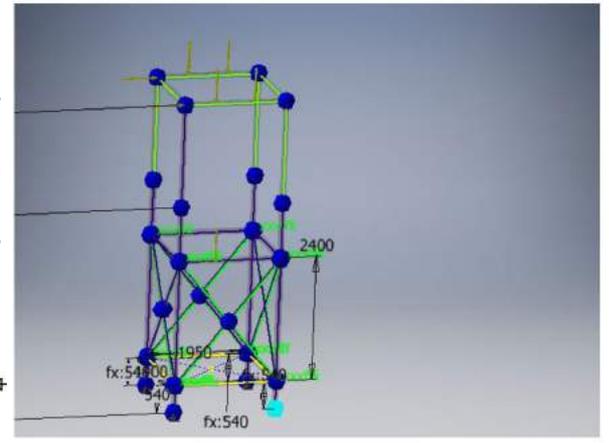
DESIGN



DESIGN & ENGINEERING



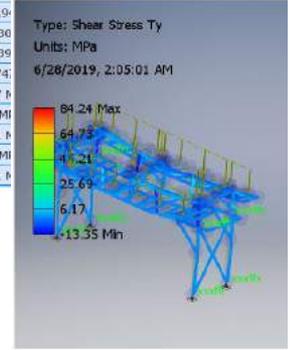
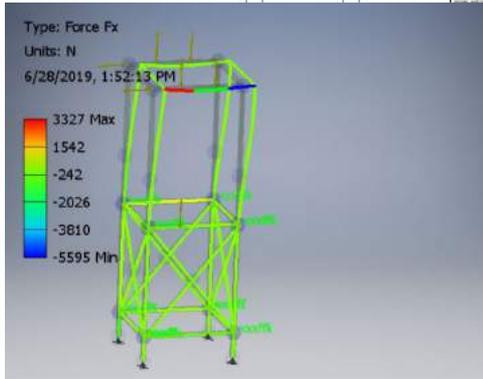
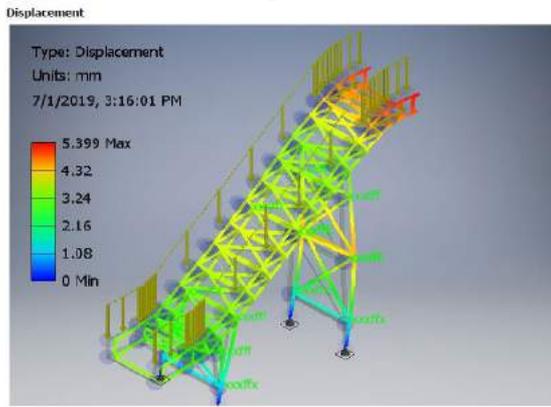
ITEM	QTY	PARTS LIST	PART NUMBER
1	2	C1-Structure	
2	3	C1-Structure 2	
3	10	DIN 555-5 - M24	
4	8	DIN 925 - A 25	
5	4	DIN 555-5 - M20	
6	64	DIN 555-5 - M12	
7	60	DIN 128 - A14	
8	1	DIN 125 - A 15	
9	60	ISO 4017 - M12 x 50	
10	10	ISO 4017 - M24 x 60	
11	1	DIN 125 - A 25	
12	4	ISO 4017 - M18 x 60	
13	60	ISO 4034 - M14	
14	64	ISO 4017 - M12 x 30	
15	19	DIN 125-2 - 25	
16	59	DIN 125-2 - 6 15	
17	49	DIN 931-1 - M18 x 60	
18	98	DIN 125 - A 10	
19	19	DIN 555-5 - M18	



Results

Static Result Summary

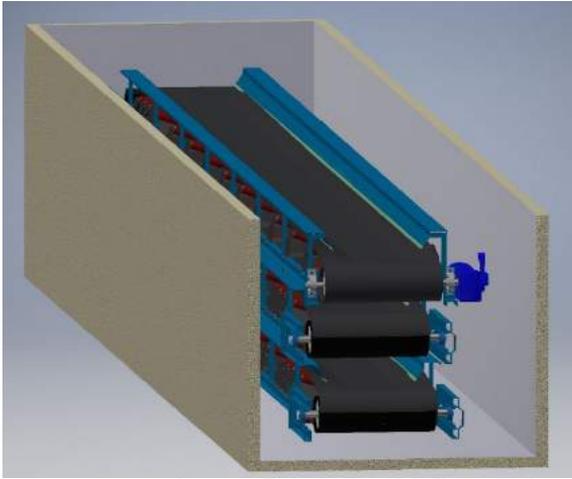
Name	Minimum	Maximum	
Displacement	0.000 mm	7.521 mm	
Forces	Fx	-5594.608 N	3326.706 N
	Fy	-5593.199 N	3328.115 N
	Fz	-2017.499 N	10613.9
Moments	Mx	-2103703.102 N mm	2100430
	My	-2063725.759 N mm	2101239
	Mz	-6222.814 N mm	4629.74
	Smax	-9.304 MPa	58.357 MPa
Smin	-64.808 MPa	1.708 MPa	
		59.411 N	
		0.000 Mm	
		59.341 N	



MANUFACTURING



TRANSPORTATION



0002 / Conveyor C1 (part 2)+Handrail 1, 2 & 3 Quassim 1x40 high cube / SUDU 6954854

Equipment needed:

- 1 x4 Machine moving skate
- 2 Telescopic Cranes 50 Tons each
1 or one 50T and one 30T)
- Forklift

Steps:

1. Use forklift to lift up the chain conveyor
2. Put 4 machine moving skates under the conveyor like the drawing
3. Use the first telescopic crane to slide conveyor outside the container and the second for lifting
4. 2 telescopic cranes must be used for lifting

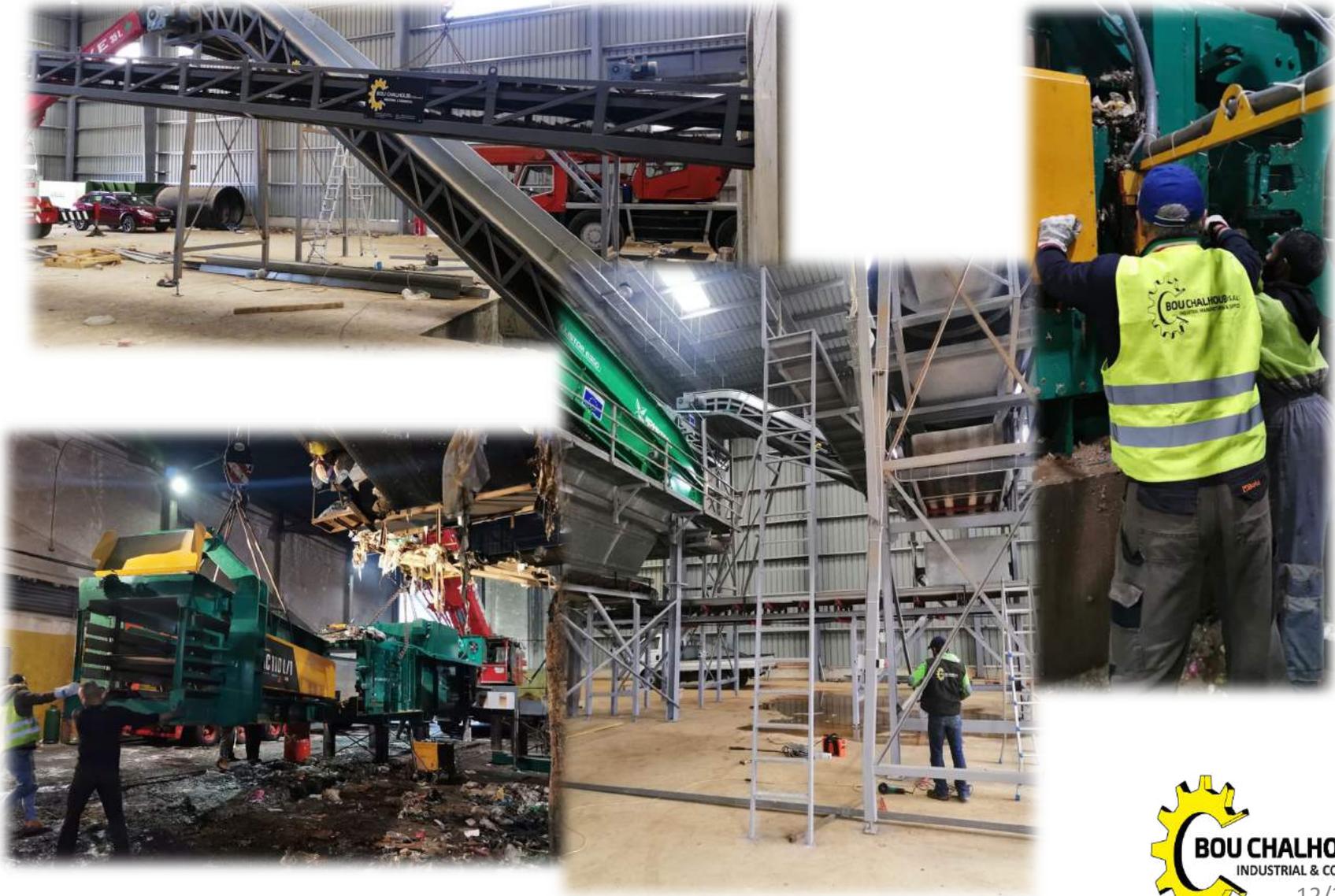
Machine Moving Skate must be used

	Drawing Number:	Project name:	Quassim and Maarat
	SA01COUNDR01	Title:	Quassim and Maarat drawing for containers unpacking
Author:	18/11/2020	Checked by:	
Designer:		Drawn by:	TF
Checked by:		Project Manager:	
Final check:			
<small>This Drawing is a property of Bou Chalhoub and shall not be used for any other project without the written consent of Bou Chalhoub. All dimensions are in millimeters.</small>		2/3	

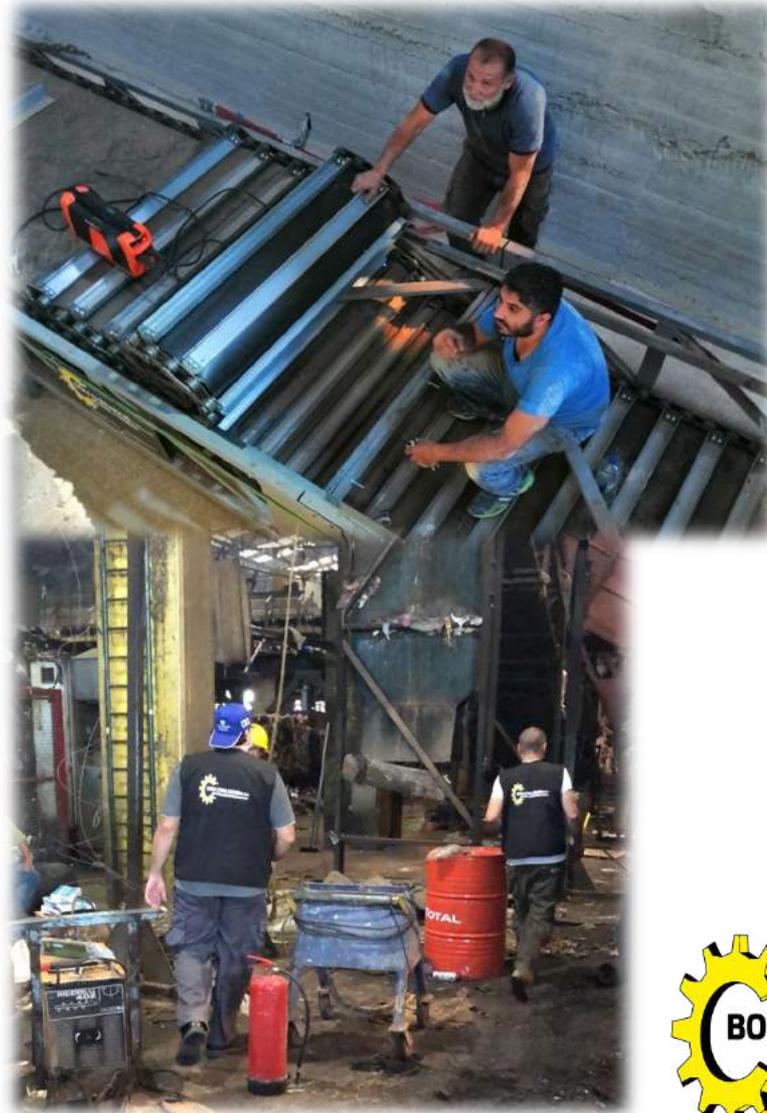
INSTALLATION



INSTALLATION



MAINTENANCE



And here are some Video links showing different plants, supplied, installed, tested and commissioned by Bou Chalhoub Est.

- <https://www.youtube.com/watch?v=saorXGIIJZpA>
- <https://www.youtube.com/watch?v=4Eu9UbfgsAQ>
- <https://www.youtube.com/watch?v=sb2LaE5xfY4>
- <https://www.youtube.com/watch?v=m3JgP2ulcvM>
- <https://www.youtube.com/watch?v=EyrFV63XsgY>
- <https://www.youtube.com/watch?v=2en1pvPufM8>
- <https://www.youtube.com/watch?v=MLvlqMt1T6s>
- <https://www.dropbox.com/s/4nic7re4khxtiqy/Solid%20Waste%20Sorting%20Line%20Tyre.mp4?dl=0>
- <https://www.dropbox.com/s/gp6hlsbbl8iznri/Zahle%20Waste%20sorting%20plant.mp4?dl=0>

References in the waste treatment industry

Since 2006, and after the implementation by CHF-USAID of the solid waste treatment plant in our City, Zahle, BOU CHALHOUB Est. has been involved in several solid waste treatment plants in Lebanon, and here is a list of some of these projects:

- 2006 : Main Suppliers for the Zahle solid waste treatment plant, Zahle-Lebanon
- 2007-2008 : Main Suppliers of the first Shouf-Swaijani Treatment plant, Shouf-Lebanon
- 2007-2008 : All equipments with shredders for the Ansar Solid waste Treatment plant, South-Lebanon
- 2008-2009 : All equipments with shredders for the Khiyam Solid waste treatment plant, South-Lebanon
- 2008-2009 : RDF & Olive Grinds feeding line for the HOLCIM cement Factory in Chekka-Heri – Lebanon
- 2010 -2011 : Main Suppliers for the MSWTP in Mahmoudiya – Baghdad - Iraq
- 2010-2011 : All equipments with shredders for the Michmich Solid waste treatment plant, Akkar-Lebanon
- 2011 : Supply & Installation of Compost turning machine to Qabrikha – South of Lebanon
- 2012 : Supply & Installation of different new equipments for the Ain Baal MSW treatment plant – Lebanon
- 2012 : Supply & Installation of complete line for the Baalbeck MSW treatment plant (15T/hour) – Lebanon
- 2012 : Supply & Installation of Compost turning machine to Khiam municipality – South of Lebanon
- 2013 : RDF and Olive grinds feeding line for HOLCIM – SLCB Plant – Chekka - Lebanon
- 2013-2014 : Supply & Installation of all equipments for the MSWTP in Kfour Village (15T/hour) – Nabatiyeh – Lebanon
- 2014-2015 : Supply & Installation of a complete RDF Pyrolysis feedstock preparation plant – UTM - INDEVCO group – Halat - Lebanon
- 2015-2017 : Supply & Installation of different conveyors, baling presses and composting drum for Arcenciel – Lebanon
- 2015 : Supply & Installation of the Complete Sorting line for the MSWTP in Baadaran – Shouf - Lebanon
- 2015-2016 : Supply & Installation of an RDF Shredder to UTM – INDEVCO group – Halat – Lebanon
- 2015-2016 : Complete Supply & Installation of all equipment to the BarElias MSWTP (15T/hour) –Lebanon
- 2016 : Supply & Installation of 2x complete sorting lines for MSW in Dafra Landfill (25T/hour)– Abu Dhabi – UAE
- 2016 : Supply & Installation of Trommel Screen & Composting equipments to MSWTP in Minieh (10T/hour) – Lebanon
- 2016 : Supply & Installation of the Complete Sorting line for the MSWTP in Hbaline (10T/hour) – Lebanon
- 2017 : Supply & Installation of the Complete Sorting line for the MSWTP in Tripoli (45T/hour)– Lebanon
- 2017 : Supply & Installation of the complete MSWTP in Joub Jannine (15T/hour) - Lebanon
- 2017 : Supply & Installation of the Complete new plant in Zahle (25T/hour) – Lebanon
- 2017 : Supply & Installation of the main equipment for the MSWTP in Ghosta (15T/hour) – Lebanon
- 2017-2018 : Supply & Installation of the Complete renewed MSWTP for Ain Baal (15T/hour) – Tyr – Lebanon
- 2017-2018 : Supply & Installation of the new conveying system for the Composting plant in Coral - Lebanon
- 2018 : Supply & Installation of the new MSWTP in Shouf Swaijani (10T/h) – Shouf Lebanon
- 2018 : Supply & Installation of the complete New MSWTP in Baalbeck (15T/Hour) – Lebanon
- 2018 - 2019 : Supply & Installation of the complete MSWTP in Srar (25T/hour) – Akkar – Lebanon (ongoing)
- 2019 - 2020 : Supply & Installation of 4x new MSW sorting lines for Beirut – with total capacity of 120T/hour (ongoing)
- 2019 - 2020 : Refurbishing and Supply & Installation of new equipment for 9x sorting lines in Beirut – Lebanon (ongoing)



Municipal Solid Waste treatment Line - Nabatiyeh



Composting of the Organic Fraction of the MSW - Nabatiyeh



Municipal solid waste treatment and composting line - Baalbeck



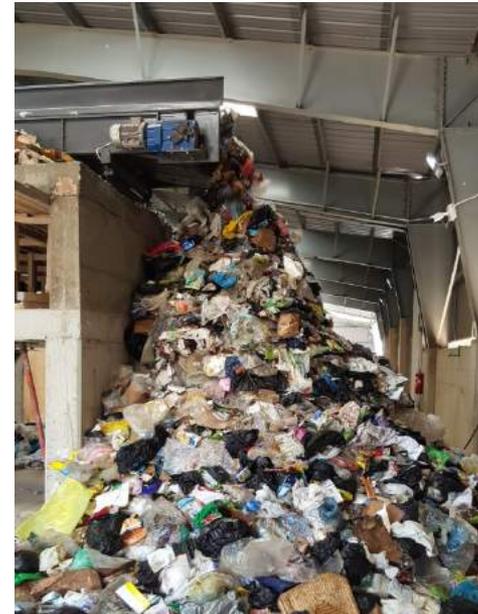
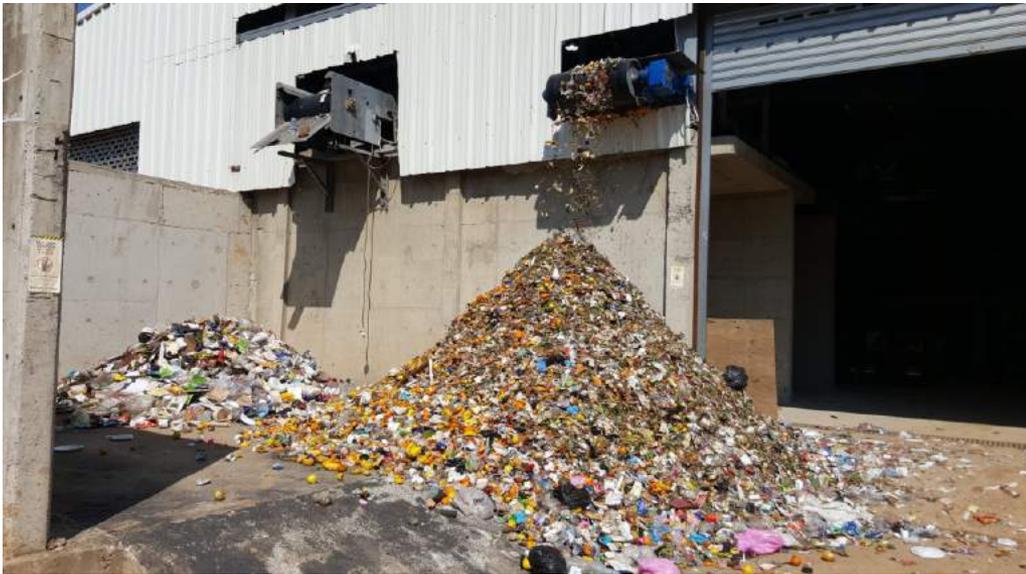
RDF production line – Unipack Tissue Mill - Halat



Manual Sorting line of the MSW – Baadaran - Chouf



Municipal Solid Waste treatment Line - Tripoli



Municipal Solid Waste treatment Line – Bar Elias



Compost from MSW – Bar Elias





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