

# COPPER SCRAP FIRE REFINING PROCESS



PREPARATION FOR YOUR SCRAP

## FIRE-REFINING PROCESS DIAGRAM

1ST & 2ND SCRAP



TILTING ROTARY FURNACE



AUTOMATIC INGOT CASTING MACHINE



COPPER WIREBAR

## TYPICAL FIRE-REFINING PROCESS CHEMICAL ANALYSIS

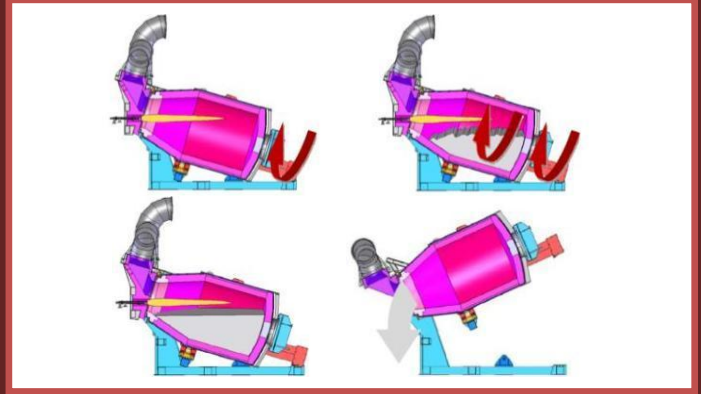
SAMPLE	Cu	Oxygen	Fe	Pb	Zn	Sn	Ni	P	S	Cd	Mn	Al	Ag
	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	98,70	1	941	9585	1156	868	163	3	213	3	1	14	90
2	99,04	7089	126	1505	46	631	139	2	7	3	1	13	80
3	99,01	9572	25	52	5	55	122	2	4	3	1	12	75
4	99,93	350	10	50	5	60	122	2	4	3	1	12	75

HORMESA TRAINS THE CUSTOMER IN FIRE-REFINING PROCESS STARTING FROM 2ND QUALITY SCRAP AND GUARANTEES 99.9% CU WITH 100 IACS MIN OF CONDUCTIVITY AS FINAL PRODUCT OF THE PROCESS.

# TILTING ROTARY FURNACE TECHNOLOGY



THE FURNACE CONSISTS OF A ROTATING DRUM (CASK) INTEGRATED IN A CHASSIS EQUIPPED WITH A TILTING ROLLER MECHANISM. THE BURNER IS POSITIONED IN THE DOOR AT THE FRONT SIDE, AND THE DOOR/BURNER UNIT IS ALSO THE EXTRACTION ROUTE OF THE COMBUSTION PRODUCTS. THE LOADING OF THE FURNACE IS DONE BY THE DOOR AND IT'S EMPTIED TILTING THE UNIT TO THE FRONT.



**AUTOMATIC  
WIREBAR  
CASTING  
MACHINE**



**COPPER WIREBAR**



**HORMESA** Is always researching in the continuous casting of different and special alloys.

Also counts with its own laboratory facilities for tests and researching.

## PROJECT TURNKEY MANAGEMENT

AVAILABLE ON REQUEST FROM **HORMESA**

- PROJECT DEFINITION CONSULTANCY
- SPECIFICATION OF EQUIPMENT & SCOPE OF SUPPLY
- CO ORDINATION OF EQUIPMENT PURCHASE, DELIVERY, INSTALLATION, START UP AND COMMISSIONING
- CO ORDINATION OF TECHNICAL SERVICE SUPPORT

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