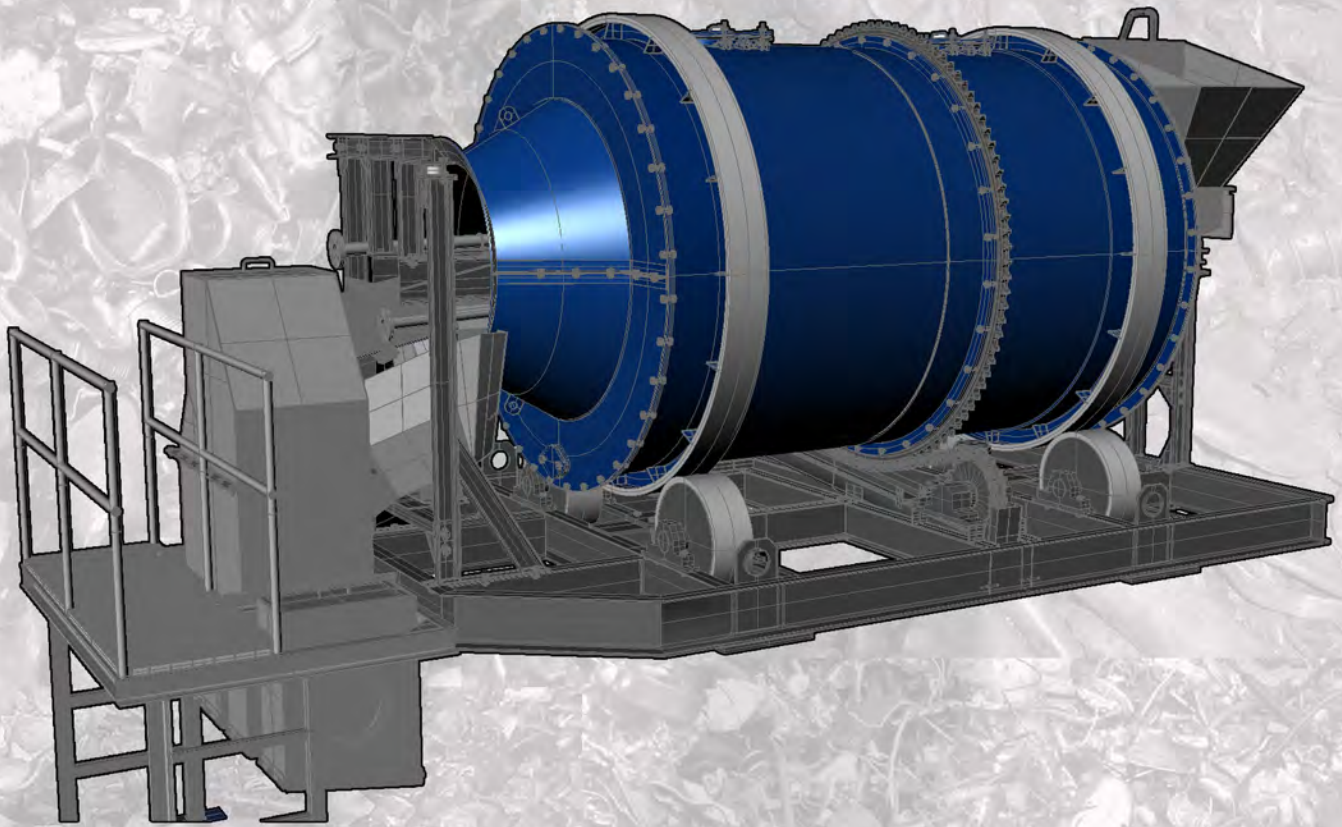
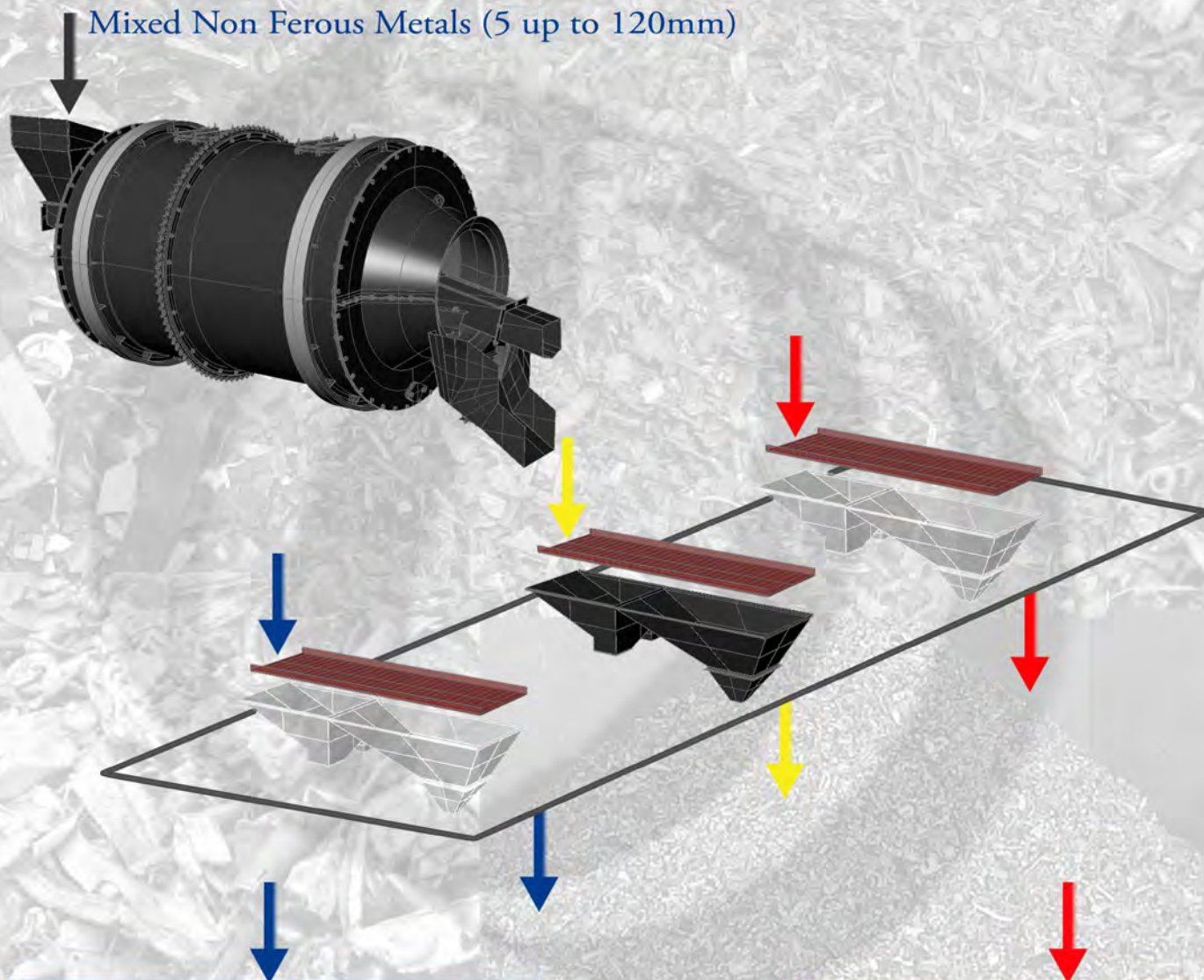


ZORBA NON FERROUS METAL SEPARATION
USING THE DUAL DENSITY
DOUBLE STAGE DRUM SEPARATOR



ONE MACHINE THREE PRODUCTS

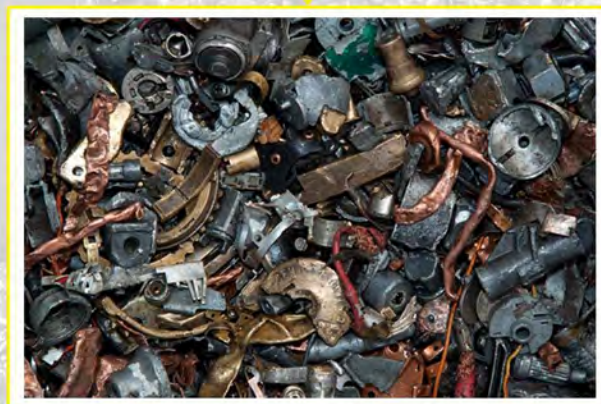
Mixed Non Ferrous Metals (5 up to 120mm)



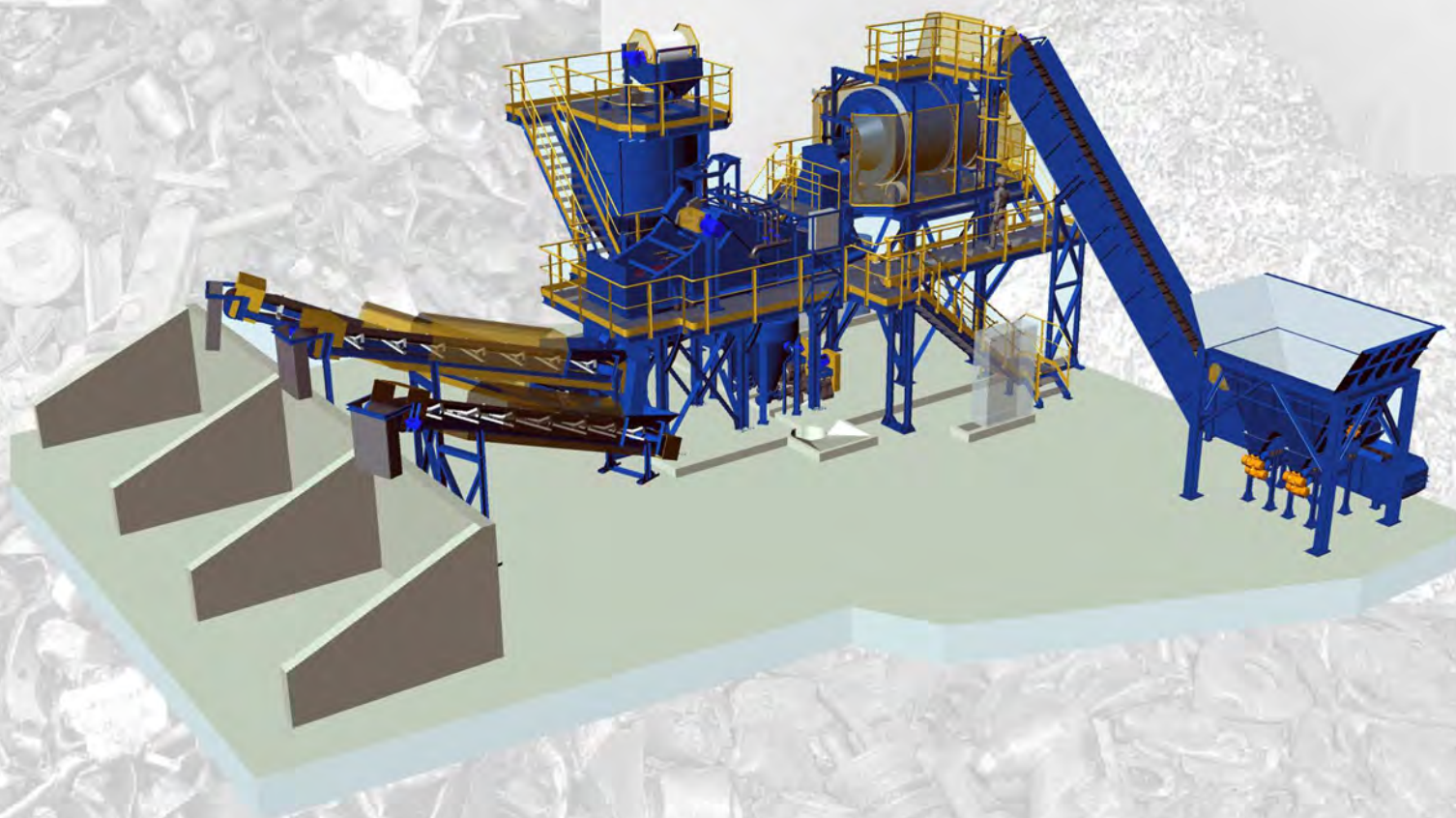
 FLOAT II STAGE
FURNACE-READY
ALUMINIUM



 FLOAT I STAGE
MAGNESIUM
PLASTIC
RUBBER

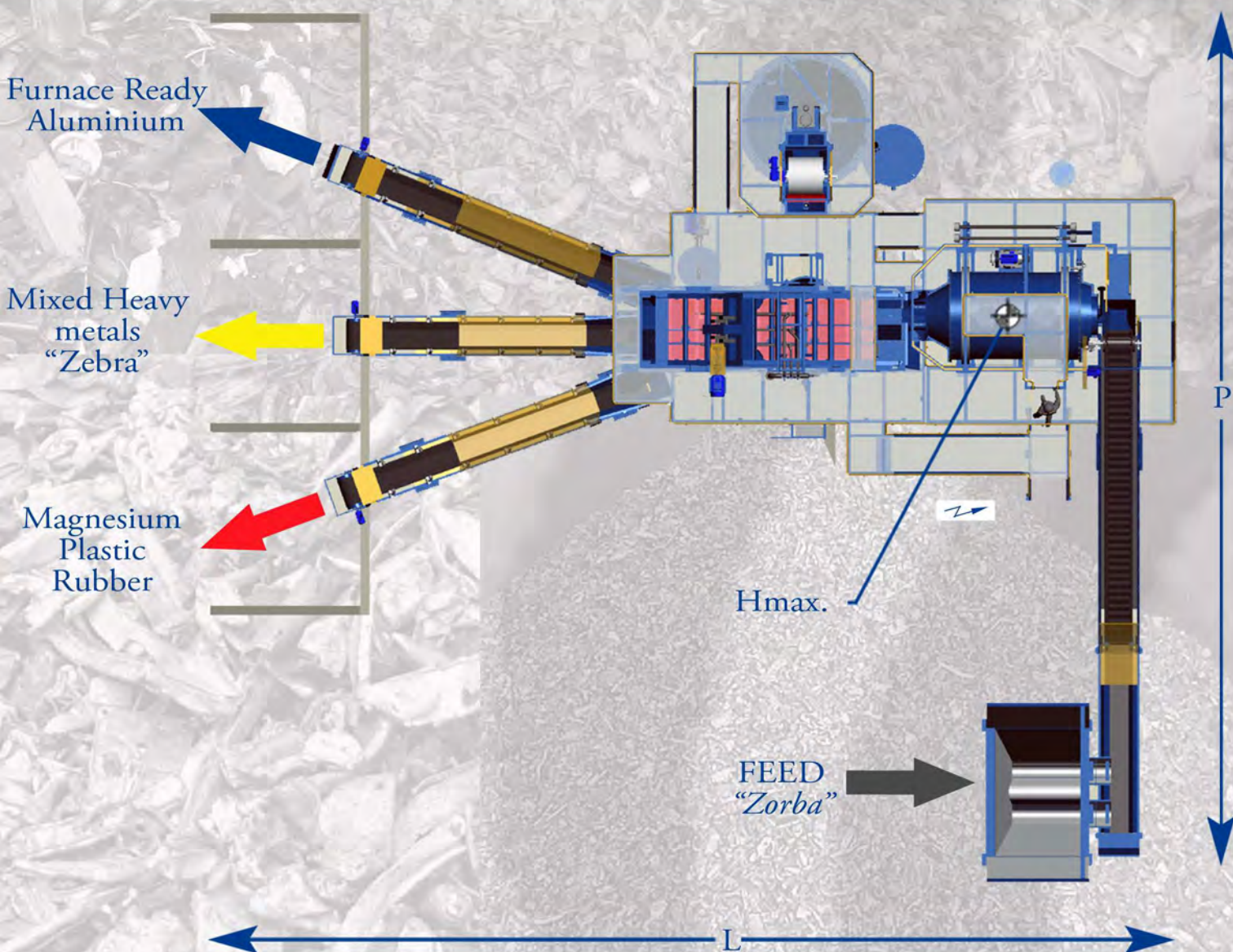


 SINK II STAGE
MIXED HEAVY METALS
"ZEBRA"



THE PROCESS

Dense media separation is an ideal process for separating the mixed non-ferrous metal scrap (Zorba) obtained from the shredding of end-of-life vehicles (ELVs) and other materials. Protec has further developed this process by designing the Dual-Density Double-Stage Drum Separator. This Separator uses a single drum split into two separate chambers, each containing a different media density. In this way, two separation steps are carried out by a single machine, yielding furnace ready aluminium, high density mixed non-ferrous metals “Zebra” and a light fraction comprised of magnesium alloys and other light materials such as rubber, plastic and wood. Both the installation and operating costs of the Dual-Density Double-Stage Drum Separator are significantly lower than dense media separation processes based on two separate single density stages. This type of application requires using a high density obtainable with a mixture of water and Ferrosilicon.



Drum size	L	P	H	Feed Capacity
Ø 2m x L 3m	23 m	21 m	9 m	Up to 10 Ton/h
Ø 2,4m x L 4m	25 m	24 m	11 m	Up to 20 Ton/h