DE-CATIONIZING FOR PICKLING'S ACID REGENERATION **DYNAREC**

WITH AN ATTENTIVE EYE TO THE NATURE

CONDOROILSTAINLESS
RECOVERY TECHNOLOGIES

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DYNAREC SERIE

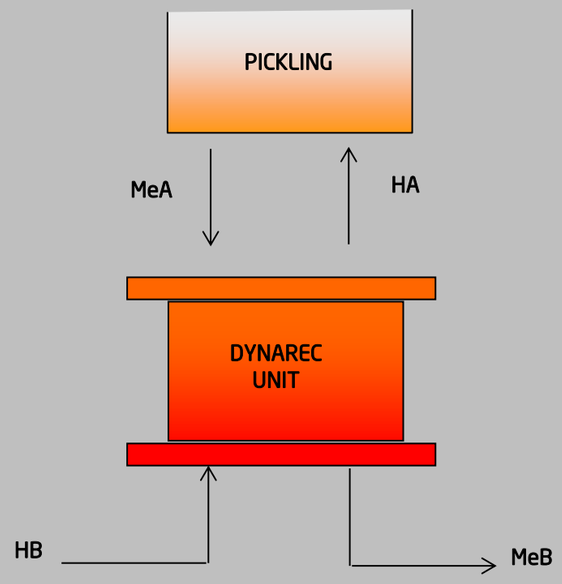
APPLICATION

BY THE USE OF APPROPRIATE DE-CATIONIZING RESINS, **DYNAREC** UNIT ALLOWS TO ELIMINATE IN CONTINUOUS METALS DISSOLVED IN PICKLING SOLUTIONS WITH BALANCED ACIDITY.

- RECOVERY OF EXPENSIVE ACID, AS PHOSPHORIC AND HYDROFLUORIC, USED IN METAL SURFACE TREATMENT (MAINLY ALLUMINIUM AND STAINLESS STEEL).

BASICALLY **DYNAREC** UNIT ALLOWS TO EXCHANGE AN EXPENSIVE ACID, WHICH IS RECOVERED, WITH A CHEAPER ONE THAT IS USED IN ITS PLACE.

WORKING PRINCIPLES



Legend:

HA = PHOSPHORIC, HYDROFLUORIC ACID

HB = HYDROCHLORIC, SULFHURIC ACID

ME = METAL CATION

DESCRIPTION OF THE PLANT

COMPOSED OF EQUAL COLUMNS THE PLANT HAS A MODULAR STRUCTURE WHICH IS EASY-FITTING AND IN CASE OF PRODUCTIVITY GROWTH IT IS EASILY EXPANDABLE.
EACH COLUMN IS ABLE TO REMOVE 5 EQUIVALENT/HOURS OF METALS FROM THE PICKLING BATH, FOR ISTANCE:

Fe^{2+} = approx. 15 Kg/h

Al^{3+} = approx. 5 Kg/h

Ni^{2+} = approx. 15 Kg/h

ADVANTAGES

COST-EFFECTIVES:

- STEADY PICKLING PROCESS
- BATH REMAKE IS AVOIDED
- HIGHEST PICKLING QUALITY

ECONOMICS:

- SAVE PICKLING SOLUTION
- SAVE SLUDGE DISPOSAL
- SAVE MANPOWER